





THE CAMPUS OF OHIO UNIVERSITY

OHIO UNIVERSITY BULLETIN

•

ATHENS, OHIO

APRIL, 1939

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THE UNIVERSITY CALENDAR

1939 - 1940

SUMMER SESSION

1939

June 12, Mon.	Registration
June 13, Tues.	Classes begin
June 17, Sat.	Last date for filing application for graduation in August
July 4, Tues.	Independence Day, a holiday
July 30, Sun.	Baccalaureate Sunday
Aug. 1, Tues.	Master's theses due in the library
Aug. 2, Wed.	Beginning of final examinations
Aug. 4, Fri.	Session closes—Commencement

POST SUMMER SESSION

Aug. 7, Mon.	Registration in the morning. Classes in the afternoon
Aug. 25, Fri.	Final examinations begin at 1:00 P. M.
Aug. 26, Sat.	Session closes

FIRST SEMESTER

Sept. 11, Mon.	Tests and meetings for freshmen Advising of students in degree colleges
Sept. 12, Tues.	Registration of students in degree colleges
Sept. 13, Wed.	Counseling of University College students in the morning Registration of University College students begins at 1:00 P. M.
Sept. 14, Thurs.	Registration of University College students closes at noon Classes begin at 1:00 P. M. with the Thursday schedule
Sept. 23, Sat.	Last date for filing application for graduation in January
Nov. 11, Sat.	Mid-semester reports
Nov. 28, Tues.	Thanksgiving recess begins after the close of the last class
Dec. 4, Mon.	Classes resume
Dec. 22, Fri.	Christmas recess begins after the close of the last class

1940

Jan. 8, Mon.	Classes resume
Jan. 20, Sat.	Beginning of final examinations
Jan. 22, Mon.	Master's theses due in the library
Jan. 27, Sat.	Session closes

SECOND SEMESTER

Jan. 29, Mon.	Advising of students in degree colleges
Jan. 30, Tues.	Registration of students in degree colleges
Jan. 31, Wed.	Registration for University College students
Feb. 1, Thurs.	Classes begin
Feb. 10, Sat.	Last date for filing application for graduation in June
Mar. 29, Fri.	Mid-semester reports
Mar. 29, Fri.	Spring recess begins after the close of the last class
Apr. 8, Mon.	Classes resume
May 24, Fri.	Beginning of final examinations
May 28, Tues.	Master's theses due in the library
May 30, Thurs.	Memorial Day, a holiday
June 2, Sun.	Baccalaureate Sunday
June 3, Mon.	Session closes—Commencement

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HERMAN G. JAMES, J.D., Ph.D., LL.D.	<i>President of the University</i>
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IRMA ELIZABETH VOIGT, Ph.D.	<i>Dean of Women</i>
West Wing	
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VICTOR WHITEHOUSE, Ph.D.	<i>Associate Dean of Men</i>
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Ewing Hall	
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Edwin Watts Chubb Library	
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Men's Gymnasium	
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East Wing	

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Cutler Hall
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Ewing Hall
- WILLIAM MORRIS YOUNG, Ph.D.-----*Dean of the College of Applied Science*
Super Hall
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Fine Arts Hall
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Rufus Putnam Hall
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*On leave of absence

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1938 - 1939

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LIBRARY—Keating, Class, Dunlap, Foster, Hanson, Hill, Jeddloh, McClure, McNeill, Trepp

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SCHOLARSHIPS—Patrick, Starcher, Voigt

CONVOCATIONS—Robinson, Jukes, Voigt, H. R. Wilson, Wolfe

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BUREAU OF APPOINTMENTS—Armbruster, Buchan, Gaylord, Patterson, Sias

SOCIAL ACTIVITIES—Thackrey, Blyton, Eisen, Field, Harrison, Jones

CAMPUS AFFAIRS—Voigt, Whitehouse, Way, Gullum, Lash, Grover

NATIONAL YOUTH ADMINISTRATION—Devlin, Householder, Lehman, Mackinnon, Otis, Parks, Rowland, Voigt, Young

PUBLIC RELATIONS—Grover, Caskey, Class, Kinison, Krauskopf, Robinson, Rowland

FRESHMAN WEEK—Whitehouse, Dilley, Grover, Porter, Voigt, Wray

ALUMNI LOAN FUND—Gamertsfelder, Gubitz, Parks, Williams

RHODES SCHOLARSHIP—Whitehouse, Hess, R. L. Morton

EMERSON POETRY PRIZE CONTEST—Wray, Foster, Heidler

FLOWERS—Hoover, Copeland, Devlin, Matheny, Noss

MUSEUM—Matheny, Dow, Hansen, Mitchell, Morse

SERVICE BUREAU POLICIES—Armbruster, Justin, R. L. Morton, Patrick, Rowland (advisory), Starcher, Wray

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*Arranged in order of priority of service within respective ranks, as of December 31, 1938

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*On leave of absence

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- PAUL GERHARDT KRAUSS, Ph.D., *Assistant Professor of German*
- FOREST LEROY SHOEMAKER, Ph.D., *Assistant Professor of Education*
- FLORENCE EDNA WAGNER, A.M., *Assistant Professor of Home Economics*
- VERA BOARD, *Instructor in Piano*
- CHARLES HENRY HARRIS, Ph.B., *Part-time Instructor in Journalism*
- WILLIAM FOSTER SMILEY, A.B. C., *Part-time Instructor in Journalism*

- MONROE THOMAS VERMILLION, M.S., *Instructor in Botany*
IRENE ELLEN WITHAM, A.M., *Instructor in Piano and Keyboard Harmony*
ARTHUR H. RHOADS, A.M., *Instructor in Physical Welfare*
DORIS MAE SPONSELLER, A.M., *Instructor in Secretarial Studies*
CHARLOTTE ELLEN LATOURRETTE, A.M., *Instructor in Physical Welfare*
VINCENT JOSEPH JUKES, A.B., *Instructor in Dramatic Art and Speech*
MARY KATHERINE BROKAW, A.M., *Instructor in Classical Languages*
EUGEN HARTMUTH MUELLER, Ph.D., *Instructor in German*
BERTRAM A. RENKENBERGER, A.M., *Instructor in Spanish*
JOHN ELZA EDWARDS, A.M., *Instructor in Physics*
CARRIE ELIZABETH SPENCER, A.M., *Instructor in Physical Welfare*
JOSEPH EUGENE THACKREY, A.M., *Instructor in School Music*
LAWRENCE POWELL EBLIN, Ph.D., *Instructor in Chemistry*
CARL TUSSING NESSLEY, Ed.M., *Instructor in Physical Welfare*
LAMAR JOSEPH OTIS, B.S. B.A., C.P.A., *Part-time Instructor in Accounting*
MARY EUNICE SNYDER, A.M., *Instructor in Home Economics*
ALMA BROWN, A.M., *Instructor in Physical Welfare*
WILLIAM OLIVER MARTIN, Ph.D., *Instructor in Philosophy*
CARL DENBOW, Ph.D., *Instructor in Mathematics*
GRACE MACGREGOR MORLEY, A.M., *Instructor in School Music*
MARY ELIZABETH ELLIS, Mus.M., *Instructor in Violin*
JOHN PIKE EMERY, Ph.D., *Instructor in English*
LILA MARGARET MILLER, A.M., *Instructor in Secretarial Studies*
DONALD RAMSAY ROBERTS, Ph.D., *Instructor in English*
WILLIAM HARRY KIRCHNER, JR., Ph.D., *Instructor in English*
LUVERNE FREDERICK LAUSCHE, B.S., *Part-time Instructor in Steam Engineering*
DANA PERRY KELLY, A.M., *Part-time Instructor in Journalism*
FRANCIS PETTIT BUNDY, Ph.D., *Instructor in Physics*
HERSCHEL THOMAS GIER, Ph.D., *Instructor in Zoology*
WALTER C. RICHARDSON, Ph.D., *Instructor in History*
MARY ELIZABETH WHITNEY, A.M., *Instructor in Physical Welfare*
MARY KATHERINE LEONARD, A.M., *Instructor in School Design*
NORMAN RAY BUCHAN, LL.B., A.M., *Instructor in Journalism*
JOSEPHINE VIRGINIA SNOOK, A.M., *Instructor in Secretarial Studies*
F. THEODORE PAIGE, A.M., *Instructor in Industrial Arts*
PAUL MURRAY KENDALL, A.M., *Instructor in English*

- HELEN LOUISE MAASER, A.M., *Instructor in School Music*
- DONALD E. CHURCH, A.M., *Instructor in Statistics*
- JOHN BRADFIELD HARRISON, A.M., *Instructor in English*
- HANS JACOB DERNBURG, Ph.D., *Instructor in Economics*
- GIFFORD SEYMOUR BLYTON, A.M., *Instructor in the School of Dramatic Art*
- MARGARET LOUISE OSGOOD, A.M., *Part-time Instructor in Mathematics*
- JAMES VAN NOSTRAN RICE, Ph.D., *Instructor in Romance Languages*
- DON DALZELL MILLER, A.M., *Instructor in Mathematics*
- HAROLD ELWOOD WISE, A.M., *Assistant Coach in Football, Basketball, and
Baseball and Part-time Instructor in Physical Welfare*
- SYBIL LEE GILMORE, M.S., *Instructor in Secretarial Studies*
- FRANKLIN CARL POTTER, Ph.D., *Instructor in Geography and Geology*
- MARIE ACOMB QUICK, A.M., *Instructor in Education*
- GEORGE KEHOE McCABE, Ph.D., *Instructor in Economics*
- VIRGINIA FRANCES HARGER, M.S., *Instructor in Home Economics*
- SAM WESLEY DAVIS, JR., Ph.D., *Instructor in Economics*
- JOHN LEMBACH, B.A.E., *Instructor in School Design*
- CHARLES EDWIN PATTON, A.M., *Instructor in Space Arts*
- JAMES OTTO STEPHAN, A.M., *Instructor in Industrial Arts*
- CHARLES ARTHUR ROWAN, JR., A.M., *Instructor in Dramatic Art and Speech*
- DOROTHY ESTELLE SEABAUGH, A.M., *Instructor in School Design*
- EDWARD HUTCHINS DAVIDSON, A.B., *Instructor in English*
- ALICE E. LAGERSTROM, A.M., *Instructor in Home Economics*
- MARY FLORENCE HYDE, A.M., *Associate in the School of Dramatic Art*
- RUSSELL CRANE, B.S. Ed., *Assistant Coach in Football and Track*
- KARL ESCOTT WITZLER, *Associate in Woodwind Instruments and Director of
the Military Band*

- THOMAS MCKINLEY WOLFE, M.B.A., *Part-time Lecturer in Commerce*
- C. H. CREED, M.D., *Director of Clinics in Abnormal Psychology*

LEE STEWART ROACH, A.M., *Part-time Assistant in Zoological Research*

*MARION OWEN WOODWARD, A.M., *Part-time Itinerant Teacher in Home Economics*

*OPAL TERRISSA RHODES, A.M., *Research Specialist in Home Economics
Teacher Training*

*On special appointment

LUTHER B. ANDREWS, Private, First-Class, Field Artillery, U.S.A., *Assistant Instructor in Military Science and Tactics*

CHARLES HENRY FAIR, Sergeant, Infantry, U.S.A., *Assistant Instructor in Military Science and Tactics*

GEORGE WALLACE, First Sergeant, Infantry, U.S.A., *Assistant Instructor in Military Science and Tactics*

GEORGE WILLIAM BESCOE, B.S. Ed., *Assistant in Botany*

PAUL ALCON BELKNAP, B.S. Chem., *Assistant in Chemistry*

JULIA LUELLE CABLE, A.M., *Assistant in Psychology*

ROBERT PAUL FISCHER, A.B., *Assistant in the Office of the Dean of Men*

HARRIETT GLEASON, A.B., *Assistant in the Office of the Dean of Women*

VIRGINIA GRAY, B.S., *Assistant in Zoology*

JAMES BROWN GREENE, A.B., *Assistant in Zoology*

PAUL ALLEN HAYES, A.B., *Assistant in Chemistry*

MARGARET COTTON HEATON, A.B., *Assistant in English*

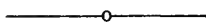
FRANCES JEAN McELHANEY, B.S. Ed., *Assistant to the Acting Director of Dining Halls at Howard Hall*

DARWIN KELLER PHELPS, B.S., *Assistant in Zoology*

WILLIAM CONLEY SMITH, B.S. E.E., *Assistant in Electrical Engineering*

CHARLES SIEGEL THOMAS, B.S. Ed., *Assistant in Mathematics*

M. ANNE WILSON, B.S., *Assistant to the Acting Director of Dining Halls*



EDWARD EVERT CURTIS, A.B., *Fellow in Psychology*

FRANCES RENICK HARLOW, A.B., *Fellow in Commerce*

EVERETT RUSSELL HAYES, A.B., *Fellow in Zoology*

JOHN C. HOLLIDAY, B.S. Ed., *Fellow in Zoology*

EDNA LENORE KENT, B.S., *Fellow in Home Economics*

CLARENCE WAYNE MATTHEWS, B.S. Phys., *Fellow in Physics*

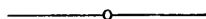
JACK MATTHEWS, A.B., *Fellow in Dramatic Art*

ROBERT BRADFORD MINER, B.S.C., *Fellow in Commerce*

IDA LEONA PALTROWITZ, B.S. Ed., *Fellow in Physical Welfare*

VIRGINIA GRACE RULEY, B.S. Ed., *Fellow in Education*

ERNEST LOUVANE THOMPSON, A.B., *Fellow in Chemistry*

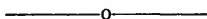


PAULINE ANN HACKBARTH, B.S., *Graduate Student Dean*

DOROTHY CLARE REECE, B.S., *Graduate Student Dean*

ZELMA KATHERINE SEYLER, A.M., *Graduate Student Dean*

MARY JANE STEVENSON, A.B., *Graduate Student Dean*



LILLIAN CORRINE STOCKER, B.S. H. Ec., *Graduate Student Dietitian*

KATHRYN LOIS STROMBERG, B.S. Ed., *Graduate Student Dietitian*

HELEN LOUISE UTTERBACK, B.S. H. Ec., *Graduate Student Dietitian*

THE TRAINING SCHOOLS

AZARIAH BOODY SIAS, Ph.D., *Director of Teacher Training*

THE UNIVERSITY ELEMENTARY SCHOOL

EINAR AUGUST HANSEN, Ph.D., *Director of the University Elementary School*

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

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

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

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

ADELAIDE ISABEL JOHNSON, A.M., *Supervising Critic in the Third Grade*

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

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

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

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

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

THE MECHANICSBURG SCHOOL

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

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

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

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

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

THE PLAINS ELEMENTARY SCHOOL

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

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

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

- VERA E. SPROUL, A.M., *Supervising Critic in the First Grade*
EBBA LOUISE WAHLSTROM, A.M., *Supervising Critic in the Third Grade*
ALTA MAY COOPER, A.M., *Supervising Critic in the Fourth Grade*
IRENE CONSTANCE ELLIOTT, A.M., *Supervising Critic in the Fifth Grade*

THE PLAINS HIGH SCHOOL

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

GENERAL INFORMATION

LOCATION

Ohio University is located in Athens, Athens County, Ohio. Athens is a small city ideally situated in the hills overlooking the Hocking River in southeastern Ohio. It is seventy-six miles southeast of Columbus, Ohio, on route 33, twenty-four miles southeast of Circleville, Ohio, on route 56, and it is on national route 50. It is easily accessible by rail on the Chesapeake and Ohio, New York Central, and Baltimore and Ohio railroads. Airport service is furnished by plane or by taxi connection with the Columbus and Cincinnati, Ohio, airports.

HISTORY

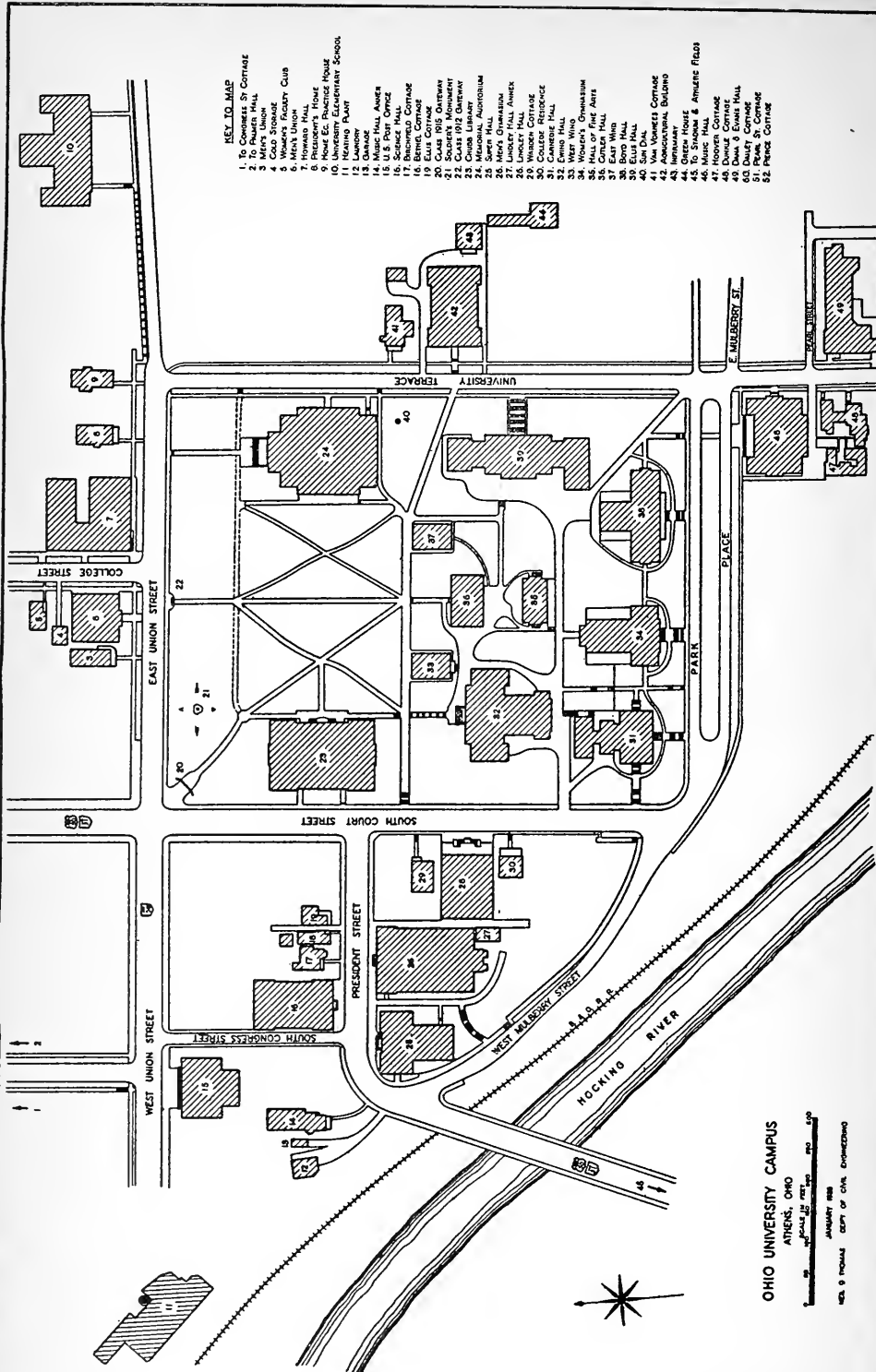
Ohio University has its origin in acts of Congress of the United States and of the Ohio Legislature. On July 27, 1787, the Congress and the Ohio Company, represented by Manasseh Cutler, agreed upon the terms of a contract in which was a provision for two townships of land to be set aside by Congress for the support of a university. Through the untiring efforts of General Rufus Putnam, the townships were located and the site for the university was selected. The Territorial Legislature on January 9, 1802, passed an act providing for the American Western University in the town of Athens, Ohio, which was approved by Arthur St. Clair, the governor of the Northwest Territory. When Ohio became a state, the legislature took control of the university and on February 18, 1804, changed the name to Ohio University.

Through the efforts of General Putnam, the first building for the use of classroom purposes only was constructed in 1808. The Rev. Jacob Lindley, Presbyterian minister of Waterford, Ohio, became the first member of the faculty and administered the affairs of the university until 1822. Thomas Ewing and John Hunter, who were graduated in 1815, were the first persons to receive collegiate degrees within the Northwest Territory.

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

KEY TO MAP

1. Congress St. Cottage
2. Music Hall
3. Mary Thomas Hall
4. Cold Storage
5. Women's Flaxery Club
6. Flaxery Building
7. Howard Hall
8. Pittsinger's House
9. East Excavated House
10. Lower East Excavated House
11. Heating Plant
12. Laundry
13. Main Hall
14. Music Hall Annex
15. U.S. Post Office
16. Business College
17. Business College
18. Bethel Cottage
19. Ellis Cottage
20. Ellis Cottage
21. Society's Monastery
22. Clark 1912 Gateway
23. Clark 1912 Gateway
24. Memorial Auditorium
25. Super Hall
26. Mark Oronotau
27. Mark Oronotau
28. Mark Oronotau
29. Wabash Cottage
30. Wabash Cottage
31. Wabash Cottage
32. Emma Hall
33. West Wing
34. West Wing
35. Hall of Fine Arts
36. Currier Hall
37. Currier Hall
38. Boyd Hall
39. Ellis Hall
40. Sun Dial
41. Sun Dial
42. Anatomical Building
43. Infirmary
44. Infirmary
45. To Smoking & Amuse. Plaza
46. Music Hall
47. Rooming Cottage
48. DeWitt & Evans Hall
49. DeWitt & Evans Hall
50. DeWitt & Evans Hall
51. DeWitt & Evans Hall
52. Pence Cottage



OHIO UNIVERSITY CAMPUS
 ATHENS, OHIO
 JANUARY 1928
 VOL. 9 P. 10044 DEPT. OF CIVIL ENGINEERING



BUILDINGS AND GROUNDS

The grounds of Ohio University consist of about seventy-two acres. At the entrance to the campus is the Alumni Gateway (20), erected in 1915 by the alumni in honor of the one hundredth anniversary of the first graduating class of the university.

On the campus, which consists of about ten acres, are located eleven buildings.

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

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

Carnegie Hall (31), the former Carnegie Library building, is used by the R. O. T. C. and the Bureau of Appointments. The building is being re-modeled and the addition of a second story will provide for class rooms and offices.

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

In West Wing (33) are the offices of the dean of women and the auditor of student funds, and the rooms for the Y. W. C. A. and the Women's League.

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

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

Manasseh Cutler Hall (36), formerly known as the Central Building, was erected in 1817 and is the oldest college edifice northwest of the Ohio River. On the first floor are the offices of the dean of the College of Arts and Sciences and the Graduate College, the dean of the College of Education, and the dean of men. The Department of Psychology uses the second and third floors.

East Wing (37), a building identical with West Wing, completes the unit of old buildings. The first floor is occupied by the Service Bureau. The offices of the director of Public Relations, the News Bureau, the alumni secretary, and the Extension Division are on the second floor. The Department of Philosophy is on the third floor.

Boyd Hall (38) is a dormitory for women accommodating eighty-six students.

Ellis Hall (39) is the first building erected by the state of Ohio for the purpose of training teachers.

West of the campus is the Agriculture and Household Arts Building (42). The School of Home Economics occupies the first floor, the Department of Botany and the Museum the second floor, and the Department of Agriculture the third floor. The Infirmary (43) and the greenhouse (44) are just back of the Agriculture Building.

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

Hoover, Dunkle, Daily, Pearl Street, and Pierce Cottages (47, 48, 50, 51, 52) are cooperative housing units for men students.

Dana and Evans Hall (49), a dormitory for men, at present is composed of two units of a proposed quadrangle. Work is progressing on a third unit which will complete the front of the building and will house one hundred men. The housing units 50, 51, and 52 will be removed as the work progresses.

East of the campus is Lindley Hall (28), a dormitory accommodating one hundred six women. Lindley Hall is being enlarged to accommodate two hundred women. The addition is on the north side of the building on the ground now occupied by Warden Cottage (29).

North of the campus are the Men's Faculty Club (3); the Men's Union (6), the activity center for men students; the Women's Faculty Club (5); Howard Hall (7), a dormitory which has been remodeled and now accommodates one hundred seventy-one women; the president's home (8); and the Home Economics Practice House and Nursery (9).

The University Elementary School (10), which occupies the Rufus Putnam Building, is on East Union Street.

On President Street, west of the campus, are: the Music Hall Annex (14); Science Hall (16), in which are the Departments of Chemistry and Zoology; and Birchfield, Bethel, and Ellis Cottages (17, 18, 19), cooperative houses for men students. The home at the corner of the block has recently been added to the cooperative unit. Palmer Hall, at the corner of Washington and Congress Streets, completes the group of buildings used in the cooperative plan for men. Also on President Street are Super Hall (25), which is used by the Departments of Civil Engineering, Electrical Engineering, Industrial Arts, and Physics, and the Men's Gymnasium (26).

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

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

MUSEUM

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

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

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

THE EDWIN WATTS CHUBB LIBRARY

The Edwin Watts Chubb Library contains 114,000 volumes and receives about 500 periodicals annually. The comparatively new building has reading and seminar rooms with a seating capacity of 600. A seminar room and stack carols are set apart for the use of graduate students. The stacks, consisting of six floors, and periodical and reference rooms will accommodate 250,000 volumes. The library is a designated depository of United States documents which are classified and catalogued by the Dewey system.

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

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

An elective course in library service for the teacher-librarian, Ed. 143-144, School Library Administration, has recently been introduced by the library staff.

THE SESSIONS

Semester Sessions. The school year of the university is composed of two semesters and two summer sessions.

A semester is approximately eighteen weeks in length; the first semester begins in September and the second in January. A student usually carries a student load of 16 semester hours for a semester.

Saturday and evening classes are also offered each semester. A schedule of classes, which covers academic and professional courses, is posted or may be obtained from the registrar's office. Students register for the classes during the first week of the semester, and a late registration penalty of \$1 is assessed for each week late. The Saturday and evening class students are admitted in accordance with the university admission regulations. A student who is employed full time is limited each semester to 6 semester hours of undergraduate work or to 3 semester hours of graduate work. A student may enroll for a Saturday or evening class and for an extension group class or a correspondence study course. Any combination of these opportunities for study limits a person employed full time to 6 semester hours for a semester. The regulations which govern other phases of the work are the same as for the students enrolled for the regular day classes except that students are not subject to the regulations governing excess absences.

Summer Sessions. The summer sessions which begin in June, one week after June commencement, provide additional educational opportunities for students desiring to lessen the time for securing a degree, for those desiring to supplement their degree requirements with additional courses, for those desiring to make up failures and deficiencies, and for those who are able to attend only during the summer period.

The first summer session continues for eight weeks. The use of a six-day-a-week schedule enables the student to complete the equivalent of half a semester's work. The quality of the offerings and the range of subjects offered in the summer session are the same as in the semester.

The post summer session is a continuation of the summer session. This session of three weeks' duration enables a student to complete from 1 to 3 semester hours. The post summer session was provided especially to assist the student who finds himself just a few hours short of meeting a particular requirement. The subjects offered depend largely upon the demand of the students.

Information may be obtained in the summer sessions bulletin and from the director of the summer sessions.

ADMISSION

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

Students entering the university for the first time are required to comply with the smallpox vaccination is given on page 33.

Freshman Students. The university admits without examination all graduates of high schools in Ohio which are on the approved list of the Department of Education. A student who has completed fifteen acceptable units with high grades in an accredited high school may be admitted upon the recommendation of the high school principal. A graduate of an out-of-state high school is admitted if the high school from which the student is graduated is on the list of high schools approved by the Board of Education of that state. A resident of a state which does not support a state university of the same general scope and standard as Ohio University is admitted if he ranks in the upper two thirds of his graduating class.

Transfer Students. A student transferring from another college or university must present an official transcript of all high school and college credits, including a statement of honorable dismissal from the school last attended. A transfer student is admitted to a degree college if he has completed the requirements of the University College and is given rank according to the classification of students given on page 50.

A student transferring from an unaccredited college may obtain credit by examination. Permission to take examinations is granted by the registrar. Request for permission should be made at the time of application for admission and not later than one month after matriculation. The examinations must be taken during the first session of a student's attendance. A fee of \$1 is charged for each examination.

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

A student who transfers from an accredited college and presents a satisfactory statement concerning the test name, the score, and the percentile is excused from this requirement. A transfer student who fails to present a

certified satisfactory record in time to be excused from the first test is required to take the test at a later date and pay \$1 if his test record when presented is not satisfactory. A student from another college who attends the university only during a summer session is excused from the requirement.

Graduate Students. Application for admission to the Graduate College is made on a blank obtained from the registrar. The application accompanied by official transcripts of a student's college record and degree, except when a student has been graduated from Ohio University, must be sent to the registrar. Only graduates of accredited institutions are accepted for admission. A student who does not expect to receive a degree from Ohio University enrolls as a special graduate student and needs to present only a statement of graduation. Additional information concerning admission is given in the description of the Graduate College.

Special Students. A student who has not graduated from high school and who is twenty-one years of age is admitted as a special student if he passes the college ability test. A special student may not become a candidate for a degree until deficiencies in high school subjects have been made up. For further information see the provision for elective study in the University College.

Auditors. A student who is a graduate of an accredited high school or who is twenty-one years of age may enroll as an auditor. A written permission from the instructor of the class the student wishes to audit must be presented to the registrar's office. A fee of \$2 is charged for each semester hour of the subject. A student who audits a course during the post summer session pays \$1 for the course. Registration must be made in the registrar's office on the regularly scheduled days.

FEES AND DEPOSITS

Fees are assessed at registration time and are payable at the treasurer's office. There is an additional fee for late registration or late payment of fees. The treasurer accepts cash, postal money orders, express money orders, and approved personal checks written for the exact amount of the obligation.

REGISTRATION FEES

Each Semester Session—

Registration Fee—General, for legal residents* of Ohio_____	\$40.00
Registration Fee—General, for non-residents**_____	65.00
Registration Fee—A.L.E. _____	5.00
Library Fee _____	1.00
Health Fee for regular students_____	2.00
Registration Fee—General, for part-time resident students (less than 9 semester hours), for each semester hour_____	3.00
Registration Fee—General, for part-time non-resident students, for the first semester hour_____	5.00
for each additional semester hour_____	4.50

The Summer Session—

Registration Fee—General, for legal residents* of Ohio_____	20.00
Registration Fee—General, for non-residents**_____	32.50
Registration Fee—A.L.E. _____	2.50
Library Fee _____	1.00
Health Fee for regular students_____	1.00
Registration Fee—General, for part-time students (less than 5 semester hours), for each semester hour as stated above.	

The Post Summer Session—

Registration Fee—General, for legal residents* of Ohio, for each semester hour _____	5.00
Registration Fee—General, for non-residents, for the first semester hour _____	7.00
for each additional semester hour_____	6.50
Library Fee _____	1.00

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

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

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

Auditors—	
Registration Fee, except post session, for each semester hour_____	2.00
Registration Fee for post summer session_____	1.00
Library Fee _____	1.00
Music Fees, in addition to the above registration fees—	
Percussion, string, and wind instruments, organ, piano, voice for one lesson a week_____	15.00
for two lessons a week_____	24.00
for three lessons a week_____	33.00
Ensemble conducting, for a major in the course_____	24.00
Harmony, private instruction _____	24.00
Music Practice Room—See Miscellaneous Fees	
Music fees for the summer session are one half of the above.	
Correspondence Study—	
Registration Fee, for each semester hour_____	6.00
Postage Fee, for each semester hour_____	.50
Extension Class—	
Registration Fee, for each semester hour_____	5.00
MISCELLANEOUS FEES	
Bureau of Appointments, registration fee_____	1.00
Change of College _____	1.00
Change Order _____	1.00
Class Reinstatement _____	1.00
College Ability Test, when not taken at the designated time_____	1.00
Duplicate Fee Card _____	.25
Examination for advanced standing, each examination_____	1.00
Grade Report Book (after the first book)_____	.25
Grade Report (after the first copy)_____	.25
Graduation—	
Application for degree _____	5.00
Application for two-year teacher's diploma_____	2.50
Re-application _____	1.00
Penalty for late application_____	1.00
Excuse from commencement_____	5.00
Infirmary, hospital service for each day_____	2.00
Late registration or late payment of fees_____	1.00
Each additional day late (after date announced)_____	1.00
Auditors, graduate students taking work on a conference basis, music specials, and Saturday and evening students enrolled in a semester, for each week late_____	1.00
Maximum penalty for a semester_____	5.00
Maximum penalty for the summer session_____	5.00
Music Practice Room—	
Percussion, string, and wind instruments, piano, voice, for one lesson a week_____	2.00
Organ, for one lesson a week_____	7.00

P.W. — Riflery -----	1.00
R. O. T. C. Freshman Personal Equipment (for the year) -----	6.00
Speech Test -----	1.00
Transcript of record (after the first transcript) -----	1.00

LABORATORY FEES

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

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

BREAKAGE FEES

A breakage deposit of \$3 is required in Chem. 1, 2, 3, and 4. In all other laboratory courses in chemistry, a breakage deposit of \$5 is required. When the fee is paid, a deposit card is issued to the student. This card is deposited by the student with the Department of Chemistry and entitles the student to a desk properly supplied with apparatus. Any needed supplies are checked from the card and any unused portion of the fee is returned at the end of the year or upon official withdrawal from the course.

REFUND OF FEES

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

The Semester Session:

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

The Summer Session:

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

The Post Summer Session:

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

No refund, however, is made until a period of thirty days has elapsed subsequent to the official withdrawal of the student from the university. No refund is made to a student who is indebted to the university.

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

EXPENSE ESTIMATE

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

	Lowest	Average
Registration, General Fee-----	\$ 80.00	\$ 80.00
Athletic, Lecture, and Entertainment Fee----	10.00	10.00
Health Fee -----	4.00	4.00
Library Fee -----	2.00	2.00
Laboratory Fees -----	2.00	8.00
Books and supplies -----	25.00	30.00
Board -----	140.00	175.00
Room -----	54.00	90.00
	<hr/>	<hr/>
Total-----	\$317.00	\$399.00

Men board in the dormitory for \$175 a year and in cooperative houses for approximately \$105. Women board in the dormitories for \$157.50.

The summary does not take into consideration expenses for travel, clothing, laundry, or incidentals which are subject to the personal control of the individual.

The registration fee for students who are not residents of Ohio will be increased according to the non-resident fees given on page 27.

BOARD AND ROOM

Men's Dormitory. The Dana and Evans Dormitory, with the addition now under construction, will accommodate approximately two hundred twenty-five men. In the completed units are an office, living quarters for the resident manager, and rooming facilities for eighty-eight men. The new addition, which according to contract specifications will be completed on September 1, 1939, will also provide for a large lounge.

A room rents for \$45 each semester and board costs \$90 for the first semester and \$85 for the second semester. Room and board is paid in advance at the office of the treasurer of the university during the first week of each semester. Arrangements may be made to pay by installments in advance of the period determined. All men rooming in the dormitory are required to eat in the dormitory dining room where cafeteria service is used for breakfast and luncheon and table service for dinner. Rooms are furnished with rugs, dressers, study tables, chairs, beds, and bedding. The university provides for the laundering of the bedding. Window draperies and additional furnishings may be supplied by the student.

Application for a room should be made at the office of the dean of men. A \$5 retaining fee, payable to Men's Dormitory, Ohio University, must accompany the application. If the contract is not fulfilled and the office of the dean of men is notified one week before school begins, the fee is refunded. If the contract is fulfilled, the retaining fee is used to carry on the social program consisting of dances, teas, receptions, and smokers, and to purchase periodicals for the book room. If at the end of the first semester, or any time during the first semester, the student withdraws from the dormitory,

one half of the social fee is refunded. Students entering for the second semester pay only one half of the fee.

Men's Cooperative Houses. There are four cooperative housing units owned and operated by the university. These units house one hundred eighty-three men and have dining room facilities for approximately three hundred and twenty-five. Since more men can be accommodated for board than for room, it is necessary for a number of the men living under the cooperative plan to live outside of the units.

A room in a cooperative unit rents for \$1.50 a week for each person in a double room. Room rent is payable at the office of the treasurer of the university in advance for two five-week periods and two four-week periods. Board is payable each week to the student manager. The cost of board for the 1937-1938 school year averaged \$2.75 a week. The cost varies depending upon prevailing food prices. The low rates are made possible because the men participating in the cooperative plan take turns waiting on table and washing dishes. A matron and a student manager are in charge of each unit. All units are under the direct supervision of the dean of men.

Each student assigned to a cooperative unit is required to pay a \$10 board deposit and a \$6 room deposit and a \$1 social activities fee. Students who board with the cooperative units and secure rooms in private homes are not required to pay the room deposit. The board deposit may be used to apply on the assessment for the last period in which the student is a member of a cooperative unit. The social activities fee is not refunded.

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

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

Men students renting rooms in private homes are expected to sign the "Householder's Agreement" and to remain in the home for one semester unless definite arrangements are made with the householder. The agreement requires a student to abide by the contract unless it is terminated by the mutual consent of both parties, by the withdrawal of the student from the university, by securing a satisfactory substitute, or by the request of the dean of men if in his judgment it is for the best interest of the student's health or scholarship. Copies of this agreement are secured at the office of the dean of men.

Room and Board for Women. The living accommodations of all women in the university are under the supervision of the dean of women and the secretary of housing. There are three dormitories, Boyd Hall, Howard Hall, and Lindley Hall. Sixty per cent of the rooms in each are held for entering students and forty per cent for upper-class applicants (former students).

Eight sorority houses are maintained by social sororities for the active members. A list of private homes which are inspected and approved by the secretary of housing is available in the office of the dean of women.

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

Each dormitory plans and develops a social program for those who live in the hall and those who come in for meals from private homes. The university administration has authorized that the retaining fee be used for a fund to carry on the social program of dances, teas, receptions, and dinner parties. Only a portion of the retaining fee is needed for the social program of the summer session. The balance is refunded at the end of the session minus any other charges against the student, such as lost keys and radio fee.

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

Dormitory residents are required to eat in the dormitory in which they are living. Freshman women who live in private homes are also required to eat in an assigned dormitory dining hall. Exemptions from this requirement are granted to residents of Athens or immediate vicinity, to students who commute, to students who work for room and board, and to a few whose parents request exemption on the justifiable grounds of financial saving. The dean of women personally passes upon all such requests and determines the validity of the grounds presented. The dining rooms in the three dormitories are under the management of a competent dietitian who is assisted by graduate students enrolled in institutional management in the School of Home Economics. The cost of board is \$79 for each semester.

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

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

UNIVERSITY HEALTH SERVICE

The university maintains a health service for the students of the university. A health fee of \$2 a semester provides for each student a complete health examination each year with proper card records and check-up examinations as required.

The university medical officer makes diagnostic visits to students only in cases suspected of an infectious or contagious character. The infirmary provides clinical service for minor ailments of students presenting themselves at the hours specified. Medical care is secured by the students through physicians of their own choice at their own expense. The university medical officer is not available for such service.

Students desiring limited hospitalization at the university infirmary may, if bed service is available, secure such service by the payment of an additional fee. Because of the limited bed facilities at the infirmary, the university cannot guarantee hospitalization for students. A well equipped local hospital is available to students at their own expense.

Vaccination. New students are accepted for admission to Ohio University with the understanding that they agree to the following smallpox vaccination requirements: Not later than four weeks after the day of registration every new student must file with the medical officer of the university a certificate giving exact date of the vaccination and showing acceptable vaccination within five years. The certificate must be signed by the vaccinator who must be a duly licensed and practicing physician.

Students are advised to comply with this requirement before coming to the university. A blank certificate is sent to the applicant after he has been admitted to the university or may be obtained by writing to the registrar.

OPPORTUNITIES FOR STUDENT AID AND EMPLOYMENT

EMPLOYMENT OPPORTUNITIES FOR STUDENTS

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

BUREAU OF APPOINTMENTS

Ohio University maintains a Bureau of Appointments to assist graduates to find positions in the teaching field or in other fields such as engineering or business. The service is extended to those seeking initial placement and to those who seek advancement to more desirable positions. Registration with the bureau makes possible a complete collection of pertinent information which may be offered conveniently to persons interested in securing employees.

All students should register with the bureau early in the senior year; those completing the two-year diploma courses, in the second year. All records are kept up-to-date so that complete information may be available for immediate use.

LOAN FUNDS

ALUMNI LOAN FUND

The alumni and friends of Ohio University have contributed \$7,435 since 1908 for the purpose of furnishing loans to students pursuing a four-year course in the university. To receive a loan a student must have attained junior or senior rank. Five per cent interest is charged. Since the first loan was made in 1908, \$58,567 has been advanced to needy students. The fund is administered by a committee of which the dean of the College of Arts and Sciences is chairman.

ATHENS ROTARY CLUB LOAN FUND

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

THE WOMEN'S LEAGUE LOAN FUND

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

SCHOLARSHIPS

OHIO UNIVERSITY SCHOLARSHIPS

The university offers a limited number of scholarships for entering freshmen on the basis of rank in high school studies. Students in the upper five per cent of a graduating class are eligible to apply.

Scholarships are awarded in limited number to sophomores, juniors, and

seniors. Those students who have made a scholastic average of 2.3 or above have the privilege of applying.

A scholarship consists of the remission of the general registration fee of \$40 a semester.

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

COLUMBIA DOWNING SCHOLARSHIP

Mrs. Madeline Downing Knight, South Jacksonville, Florida, has established a scholarship fund of \$10,000 as a memorial to her father, Columbia Downing, who in the early sixties was a student at Ohio University. The income of the fund, \$600, is awarded annually under the following conditions:

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

RHODES SCHOLARSHIPS

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

STUDENT ACTIVITIES AND ORGANIZATIONS

CAMPUS AFFAIRS COMMITTEE

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

ALL-STUDENT ORGANIZATIONS

The Men's Union is the center of men's activities at Ohio University. Every regularly enrolled male student is entitled to the privileges of the Men's Union without additional cost.

The Men's Union provides meeting places for men's organizations and offices for student publications. The building includes a large recreation room; a reading room supplied with a wide variety of newspapers and magazines; a lounge with a radio, easy chairs, and writing facilities; and several rooms for meetings.

The activities sponsored consist of a Freshman Mixer, dances, open houses, and a rodeo, and include assistance in the arrangements for Homecoming and Dad's Day activities. In conjunction with the Women's League, open houses are held throughout the school year.

Each semester the Men's Union awards a gold medal to the man with the highest scholastic standing.

The Women's League is the all-women's organization at Ohio University of which every regularly enrolled woman student is an active member.

The center of the Women's League's office and club room activities is West Wing. The third floor of this building includes one office and four club rooms supplied with magazines, books, and radio.

The activities sponsored consist of a Freshman Women's Party, dances, open houses, and Mother's Week-end. All of the activities of the Women's League are arranged definitely to serve the needs of the young women of the campus and vary from time to time as these needs vary.

Each year the Women's League awards a \$25 cash prize to the woman with the highest scholastic average extending over two semesters.

ATHLETICS

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

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

Ohio University is a member of the Buckeye Intercollegiate Athletic Conference. The varsity sports consist of football, baseball, basketball, track, tennis, swimming, and wrestling.

DRAMATIC AND FORENSIC ORGANIZATIONS

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

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

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

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

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

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

The Prep Follies. Under the direction of the Y. W. C. A., the pledges of the sororities participate in an annual original theatrical production.

The Dance Drama. The Dance Drama is an annual production of interpretative dancing which is sponsored by the Dance Club of the Department of Physical Welfare.

MUSIC ORGANIZATIONS

Membership in any music organization is based on competitive trials.

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

The University Men's Glee Club. Among the traditional activities of the club is the annual serenade given during the Mother's Week-end, a spring homecoming. Tours and radio broadcasts are scheduled regularly.

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

The University Women's Glee Club. The club is well known for the quality of its work and its activities on the campus. It gives several programs on the campus and occasional trips are taken in the spring.

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

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

The Campus Orchestra. This orchestra is made up largely of students interested in direction and ensemble work and is under the direction of an instructor in school music.

PUBLICATIONS

The *Green and White* is the semiweekly university newspaper which is delivered to every student. The *Athena* is the college yearbook which is issued in May. The *Ohioan* is a monthly magazine reflecting college life.

RELIGIOUS ORGANIZATIONS

The Y. W. C. A. is the campus religious organization for women. The association is directed by students under the supervision of the dean of women. Its program includes social service activities in the Children's Home, the County Infirmary, the Hospital for the Insane, the Sheltering Arms Hospital, the mining centers around Athens County, and for shut-ins and the colored children in Athens.

The religious welfare and interests of all students are fostered by the various organizations sponsored by the churches of Athens. The Methodist Church sponsors the Wesley Foundation with its divisions of Phi Tau Theta, national organization for men, and Kappa Phi, national organization for women; the Presbyterian Church sponsors the Westminster Fellowship with the two other organizations, Pi Chi Epsilon for men and Trapezoid for women; the Christian Church sponsors the Bethany Council with the national organization for women, Kappa Beta, and the local Phi Sigma Upsilon for men; the Baptist Club is sponsored for the students by a group of faculty members; and the Episcopal Church sponsors the Episcopal Club.

HONOR SOCIETIES

Phi Beta Kappa, established at Ohio University in 1929, is a society for the recognition of high scholastic attainment particularly for men and women primarily enrolled in the College of Arts and Sciences.

Kappa Delta Pi, established at Ohio University in 1923, is a society for the recognition of high scholarship attainment particularly for men and women primarily enrolled in the College of Education whose chosen profession is in the field of education.

Phi Eta Sigma, established at Ohio University in 1936, is a society for the recognition of high scholastic attainment for freshman men.

HONORARY ORGANIZATIONS

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

Mortar Board-Cresset Chapter, established at Ohio University in 1938, is an organization for senior women who have attained recognition in scholarship, leadership, and service.

Phoenix*, established at Ohio University in 1930, is an honorary organization for junior women who have attained recognition in campus activities.

"J" Club*, established at Ohio University in 1930, is an honorary organization for junior men.

Blue Key, established at Ohio University in 1927, is an honorary organization for fraternity men. The membership is limited to two from each fraternity.

HONORARY AND PROFESSIONAL FRATERNITIES
AND ORGANIZATIONS

Accounting—Beta Psi	Journalism—
Botany—Kappa Alpha Beta*	Kappa Tau Alpha
Classical Languages—Eta Sigma Phi	Sigma Delta Chi (Men)
Dramatic Art—	Sigma Rho* (Women)
Choregi (Dramatics)	Military—
Tau Kappa Alpha (Speech)	Pershing Rifles
Education—	Officers' Club
Lambda Tau Sigma (Special Education)	Music—
Pi Theta (Kindergarten-Primary)	Kappa Kappa Psi (Bandsmen)
Engineering—	Phi Mu Alpha (Men)
American Institute of Electrical Engineers	Sigma Alpha Iota (Women)
Pi Epsilon Mu*	Painting and Allied Arts—Delta Phi Delta
The O. U. Engineers	Physical Welfare—Delta Pi Alpha* (Men)
Home Economics—Phi Upsilon Omicron	Psychology—Psi Chi
Industrial Arts—Epsilon Pi Tau	Sociology—Alpha Kappa Delta

*Local

SOCIAL FRATERNITIES AND SOCIAL SORORITIES

Men

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

Women

Pi Beta Phi—Ohio Alpha Chapter, 1889
 Alpha Gamma Delta—Zeta Chapter, 1908
 Alpha Xi Delta—Pi Chapter, 1911
 Chi Omega—Tau Alpha Chapter, 1913
 Alpha Delta Pi—Xi Chapter, 1914
 Zeta Tau Alpha—Alpha Pi Chapter, 1922
 Theta Upsilon—Kappa Chapter, 1925
 Phi Mu—Delta Delta Chapter, 1927

DEPARTMENTAL CLUBS

Chemistry—Chemistry Society
 Classical Languages—Classical Club
 Dramatics—Fortnightly Playshop
 Education—Kindergarten-Primary Club
 Electrical Engineering—Radio Club
 English—Quill Club
 French—Alliance Francaise
 German—Der Deutsche Verein
 Journalism—News Photography Club

Industrial Arts—Industrial Arts Club (Men)
 Philosophy—Philosophy Club
 Physical Welfare—Dance Club (Women)
 Dolphin (Women)
 Flying O (Women)
 Varsity "O" Association (Men)
 Varsity "O" Association (Women)
 Physics—Physics Club
 Spanish and History—Hispanic-American Club

GENERAL STUDENT ORGANIZATIONS

American Student Union
 Interfraternity Council
 Men's Union
 W. A. A.

Women's League
 Women's Pan-Hellenic Council
 Y. W. C. A.

PRIZES AND AWARDS

A. A. ATKINSON AWARDS

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

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

ALLIANCE FRANCAISE PRIZE

The Alliance Francaise offers each year a prize of \$15 to the advanced student having the highest record in the Department of French. A student who has once won the prize is not eligible for consideration.

ALPHA DELTA PI SCHOLARSHIP PRIZE

The Xi chapter of Alpha Delta Pi offers each year a prize of a silver loving cup to the girl enrolled at present who has attained the highest scholastic average at the end of her sophomore year. Any sophomore girl is eligible to compete for the prize.

CHI OMEGA ECONOMICS PRIZE

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

EMERSON POEM PRIZES

W. D. Emerson, of the class of 1833, bequeathed to the Board of Trustees of Ohio University the sum of \$1,000. The interest on this amount is awarded every second year to the students or graduates of Ohio University who write the best original poems. The award is divided into three prizes of \$60, \$40, and \$20. The judges are three persons, appointed by the president of the university and the chairman of the Department of English, who judge independently of each other.

The following regulations must be observed in every particular:

1. The competitors must be graduates of the university or students in attendance.
2. The poems must be in the hands of the president of the university before the opening of the second semester of 1940-1941.

3. Only one poem is to be submitted by each competitor.
 4. Each contestant shall submit three copies.
 5. The poem shall be typewritten on paper eight and one half by eleven inches, written only on one side, and marked with a pseudonym or character.
 6. The pseudonym or character accompanied by the name and address in a sealed envelope shall be sent to the president of the university. The envelopes will not be opened until the decision of the judges has been made.
- The winner of the first prize is not eligible for a second competition.

EVANS LATIN PRIZES

The Dafydd J. Evans Latin prizes consist of a first prize of \$25 and a second prize of \$12.50 each year.

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

The committee consists of the members of the staff in the Department of Classical Languages and the alumni secretary.

HORN SENIOR COMMERCE PRIZE

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

JOHN BAYARD THOMAS BIOLOGY PRIZE

The John Bayard Thomas prize in biology has been established by Dr. Josephus Tucker Ullom, '98, as a memorial to his nephew. The prize consists of \$50 to be awarded annually to the junior or senior pre-medical student who has done the highest grade of work in courses offered by the Department of Zoology. In making the award, consideration is given to the subjects covered and the quality of work performed. A student who has once won the prize is not again eligible for consideration.

The committee on awards consists of the head of the Department of Zoology and the dean of the College of Arts and Sciences.

MEN'S UNION SCHOLARSHIP PRIZES

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

The Men's Union also offers a cup to both the social fraternity and the pledge chapter having the highest scholastic average for the first semester.

PI THETA KINDERGARTEN AWARD

The Beta chapter of Pi Theta each year presents a silver loving cup to the student in kindergarten-primary education who has attained the highest scholastic average at the end of her freshman year. The award is based also on personality and professional attitude.

SIGMA ALPHA IOTA MUSIC PRIZE

Sigma Alpha Iota gives a prize of \$25 to the sophomore woman enrolled for the degree of Bachelor of Fine Arts in Music or for the degree of Bachelor of Science in Education with a major in music who has attained the highest number of scholastic points.

SUPER GREEK PRIZES

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

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

The committee in charge of the awards consists of the chairman of the Department of Classical Languages and the dean of the College of Arts and Sciences. The two may select a third member. Details may be secured from members of the committee.

TAU KAPPA ALPHA FORENSIC PRIZES

Each year the Ohio University chapter of Tau Kappa Alpha, national honorary forensic fraternity, conducts a series of contests in the field of public speaking. The fraternity awards medals to the winners of each of these contests. They include extempore speaking contests for both men and women, poetry interpretation contests for both men and women, men and women's oratorical contests to choose representatives for state intercollegiate competition, and a women's humorous interpretation contest. Irma E. Voigt, dean of women, annually awards a prize for the women's prose interpretation contest held as a feature of Mother's Week-end. A campus-wide intra-mural debate tournament is also sponsored by Tau Kappa Alpha. The winning unit in both the men and the women's divisions is awarded a loving cup.

WOMAN'S MUSIC CLUB PRIZE

The Woman's Music Club of Athens gives an annual prize of \$25 to the senior music major in the College of Fine Arts who has attained the highest number of scholastic points and who has manifested superior excellence in music.

WOMEN'S LEAGUE SCHOLARSHIP AWARD

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

COLLEGES AND DIVISIONS

ORGANIZATION

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

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

THE UNIVERSITY COLLEGE

THE COLLEGE OF ARTS AND SCIENCES

THE COLLEGE OF EDUCATION

THE COLLEGE OF COMMERCE

THE COLLEGE OF APPLIED SCIENCE

THE COLLEGE OF FINE ARTS

THE GRADUATE COLLEGE

PHYSICAL WELFARE

MILITARY SCIENCE AND TACTICS

THE PORTSMOUTH DIVISION

THE SUMMER SESSIONS

THE EXTENSION DIVISION

REGISTRATION

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

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

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

Late Registration. The maximum late registration fee is \$5. Regular students are charged \$1 for late registration with the addition of \$1 for each day late. Special students who are enrolled in a semester as music specials, auditors, graduate students taking work on a conference basis, or students enrolled in the evening and Saturday classes are charged a late registration fee of \$1 for each week late. The penalty goes into effect immediately after the close of the registration period as given in the calendar.

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

Student Load. A student's normal load is 15 or 16 semester hours. A student with a high scholastic average may enroll for more than the normal load with the permission of the dean of the college in which he is enrolled. The dean of the college may grant permission for an 18 semester hour load when the student has a 2.00 scholastic average and no failures, and for a 20 semester hour load when a student has carried 18 semester hours with a 2.50 scholastic average and no failures. An exception to this scholastic requirement is made for a student enrolled in the engineering courses in the College of Applied Science. Other cases which do not come under these regulations are presented by written application to the Executive Committee.

A student on probation is limited to 14 semester hours. Permission to carry more than 14 semester hours is obtained from the dean of men or the dean of women by students enrolled in the University College and from the Executive Committee by students enrolled in a degree college. A student enrolled in the engineering courses of the College of Applied Science may obtain permission for more than 14 semester hours from the dean of the college.

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

Change Orders. A student who finds it necessary to add or drop a subject requests a change order in the office of the dean of the college in which he is enrolled. If the change order is approved by the dean, it must be taken to the office of the registrar. The change goes into effect when the change order has been accepted by the office of the registrar.

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

The subject from which a student withdraws by change order during the first six weeks after the opening of a semester, three weeks after the opening of the summer session, or one week after the opening of the post summer session is removed from the student's registration card. If the change order for the removal of a subject is made after the time indicated above, the subject remains a part of the student's registration record and a grade, WP or WF, is recorded according to the instructor's report. WP indicates that a student is passing at the time of withdrawal; WF, that a student is failing.

A request for the addition of a course made three weeks after the opening of a semester or one week after the opening of the summer session must be approved by the Executive Committee.

Change of College. A student who desires to transfer from one degree college to another should make application for the transfer before or during the registration period. The application is made in the office of the dean of the college in which the student is enrolled. The change does not go into effect until the application, signed by the two deans concerned, is presented to the registrar for approval and the transfer fee, \$1, has been paid. A student is required to fulfill all the requirements of the college and the degree to which he transfers.

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

Withdrawal. A student may officially withdraw from the university by presenting to the registrar's office a withdrawal order issued by the dean of the college in which the student is enrolled. An official withdrawal is not granted to a student who is financially indebted to the university. A schedule for the refund of fees is given under Fees and Deposits.

A statement of good standing or honorable dismissal is not made for a student who is on scholastic probation, who has been dropped from the university, or who is financially indebted to the university.

GENERAL REGULATIONS

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

Grading System. A, very high; B, high; C, average; D, passing; E, conditioned; F and Fx, failure; I, incomplete; W, withdrawn; WP, withdrawn passing; WF, withdrawn failing.

E and I Grades. The grade E is given to a student who is not doing passing work but who has the possibility of receiving credit in a one semester course by doing additional work or by continuing a year course through the year. The grade I is given for the work of a student who has a satisfactory record in the course but whose work is not complete.

An undergraduate student is required to make up an E grade obtained in a one semester course or an I grade obtained in any course within one month after the opening of the next session in which the student enrolls for a residence course at the university. A student who receives an E grade at the close of the first semester of a year course may continue the course and have his grade determined by the year's work.

An instructor is allowed one week for the reporting of the removal of an E or I grade.

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

A graduate student is allowed one year in which to complete a course. The final grade must be reported to the registrar's office within one year after the close of the session in which the student registered for the course.

F is failure. Credit for the course can be secured only by re-registration and repetition of the course with a passing grade. F is recorded for a course from which the student has not officially withdrawn by change order or withdrawal order.

F and Fx. F is recorded for a student who fails to attain the required scholastic standard, at least seventy per cent. Fx is given to a student who has had excess absences.

W. W is indicated by the instructor on the class card of a student who officially withdraws from a course or from the university during the first six weeks of a semester, the first three weeks of the summer session, or the first week of the post summer session. A course marked W is removed from the student's record.

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

Point System. For each semester hour of credit with the grade of A, a student receives three points; B, two points; C, one point; D, no points; E and I, no points until the final grade is determined; F, Fx, and WF, no points. A student's semester average is determined by the number of points

accumulated by the grades reported at the close of the semester. WP does not affect a student's scholastic average.

Excess Absences. The regulations pertaining to absences of undergraduate students are as follows:

1. Attendance Record

(1) The members of the faculty are responsible for keeping a record of attendance in each course and submitting a list of all absences to the dean of men and to the dean of women each week.

(2) The dean of men and the dean of women record the number of absences reported for each student in each class weekly and indicate the number of such absences that have been excused.

2. Excuse for Absence

(1) The student who has been absent from class for any of the reasons listed below presents an excuse to the dean of men or the dean of women.

Excuses are granted for absences due to illness, death in the family, or for trips in connection with participation in authorized educational and university activities, such as musical and athletic events, debates, etc. Excuses may be granted for other educational trips, appointments, meetings, and extra-curricular activities when approved by the dean of men and the dean of women.

All excuses for personal illness must be presented to Dr. George N. Burger, director of Health Service. Excuses signed or certified by Dr. Burger will be the only excuse for illness which will be considered valid in the office of the dean of men or the office of the dean of women. If the student has not been attended by a physician, an excuse signed by a landlady or other responsible person must be presented to the director of Health Service. The student must report to the health clinic not later than one day after returning to classes.

(2) In every case the student is required to present evidence of the validity of his excuse to the dean of men or the dean of women not later than one week after the first class meeting he attends after the absence has occurred.

3. Penalties for Unexcused Absences

(1) When the number of unexcused absences in any course exceeds the number of scheduled class meetings a week, the student and the instructor are notified by the dean of men or the dean of women. The student is allowed to petition for reinstatement up to the date indicated on the drop notice. If the petition has not been filed by that date, the student is automatically dropped from the course with a grade of Fx. The grade is recorded in the registrar's office.

(2) Each of a series of unexcused absences that occurs consecutively, immediately preceding or immediately following a regularly scheduled vacation period, counts double.

(3) Whenever the student's total absences, excused or unexcused, are so numerous as to affect the quality of his work in a given course, the instructor informs the student and the dean of men or the dean of women. The student is automatically placed on probation in the

course. During this class probation the student is not granted an unexcused absence without being automatically dropped from the course with the grade of Fx.

(4) A student who is dropped from classes by the registrar for non-payment of registration fees is marked absent by the dean of men or the dean of women until he is reinstated.

4. Reinstatement

(1) A student who has been dropped from a course in accordance with rule 3 may be reinstated as follows:

a. The student obtains a statement from his instructor authorizing his reinstatement in the course.

b. The student presents this statement with the petition for reinstatement to the dean of men or the dean of women.

c. If the petition for reinstatement is granted, the student obtains a reinstatement permit from the office of the dean of men or the dean of women. The permit is presented at the office of the registrar for the assessment of the reinstatement fee which is \$1 for each course for which a permit is issued. The permit is validated by the treasurer of the university when the fee is paid.

(2) An absence that occurs during the period of reinstatement is treated like any other absence. The fact that the student is engaged in being reinstated in the course is not approved as an excuse for absence.

5. Absences and Standing in the Class

(1) The student's final grade is determined without regard to the number of absences recorded for him unless he has missed an examination or failed to complete required work because of unexcused absence.

(2) Examinations and required work missed may be made up as directed by the instructor upon presentation of a proper form from the office of the dean of men or the dean of women certifying that the student's absence has been excused. In so far as it is possible, the instructor directs the student in his efforts to make up the work missed.

(3) The student alone is responsible for whatever has been missed because of an unexcused absence.

6. Exemption from Regulations

(1) A student who has completed at least two semesters, or the equivalent, of university work and whose scholastic average for the preceding semester or regular summer session is 2.0 or above is excused from the regulations pertaining to absences of undergraduate students.

Final Examinations. Final examinations are held during the last week of a session according to a posted schedule. All students are required to take the final examinations.

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

Grades are reported to a student immediately after the close of the session, provided the student leaves a stamped self-addressed envelope at the registrar's office.

Grades for students enrolled in the University College are reported every six weeks to the dean of men and the dean of women. The grades are available to the student through his counselor.

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

Probation. The scholastic probation of a student enrolled in a degree granting college is governed by the following regulations: A student who fails to make points equal to one half of the number of semester hours he has carried during a session is placed on probation and is limited to a 12, 13, or 14 semester hour load during the succeeding semester. A student resumes a normal load after he has carried the probation load with a C (1.0) average. If at any time he does not make a C average on the probation load or on the normal load and does make points equal to two thirds of the hours carried, he is continued on probation and required to carry a probation load.

While on probation a student is required to make points equal to two thirds of the number of hours for which he is enrolled. If he fails to make the required number of points, he is automatically dropped from the university. A re-instatement petition is not considered until a student has been out of the university for one semester.

A student is removed from probation when he has made a C (1.0) average for two consecutive sessions; one with the probation load and one with the normal load. A student who is placed on probation as the result of E and I grades is removed from probation if the final report of the grades gives a total of points equal to one half of the number of hours carried.

The dean of women and the dean of men administer the probation regulations governing the students enrolled in the University College.

Honor List. A semester honor list by classes is published soon after the beginning of each semester. This list includes those students who made a 2.50 average or better for the previous semester.

Classification of Students. A high school graduate or a transfer freshman who has met entrance requirements is admitted to freshman rank in the University College. A student who has fulfilled the requirements of the University College, which include the completion of at least 25 semester hours, is ranked as a sophomore in a degree granting college; as a junior, when he has completed at least 55 semester hours; and as a senior when he has completed at least 87 semester hours. A student who has not fulfilled the requirements of the University College will remain enrolled and will have rank in the University College according to the number of hours he has completed, as explained above. When he is transferred to a degree granting college, he will have the rank determined by the number of hours completed.

A student over twenty-one years of age who has not met the entrance

requirements is ranked as a special student in the college governing the majority of the courses for which he is enrolled.

A student who has received a degree and returns for undergraduate credit is enrolled as a special student in the college governing the majority of the courses for which he is enrolled.

A student who has been admitted to the Graduate College is enrolled as a graduate student. A graduate student is enrolled as a graduate-special if he is not working toward a master's degree at Ohio University.

Transcripts. A transcript of record is an official copy of a student's record which is issued by the registrar's office upon request. Each student is entitled to one transcript free of charge. The fee of \$1 should accompany the request for each additional transcript. A student is entitled to a complete transcript without charge after graduation with a degree even though he has had one or more transcripts before graduation.

A student who wishes to transfer to another college or university should request the registrar's office to send an official transcript to the school.

GENERAL GRADUATION REQUIREMENTS

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

Application. A candidate for a degree or a diploma must file his application for graduation in the registrar's office not later than the dates given in the university calendar. The diploma fee for a degree is \$5; for a two-year diploma, \$2.50. The application for graduation is accepted by the registrar's office when the fee has been paid. The penalty for application after the time assigned is \$1. Payment of the diploma fee after the stated dates constitutes late application and the penalty is assessed.

All work for a degree or a diploma must be completed before the time of graduation. If an applicant fails to meet the requirements for graduation, he is required to re-apply and pay a re-application fee of \$1.

Credit and Point Requirement. The curricula vary in the amount of hours and points required for completion. In general, a minimum of 124 semester hours and 124 scholastic points are required. The requirement is stated in the outline of requirements for each degree.

A transfer student must complete the requirements, 124 semester hours

and 124 scholastic points or the number as stated, which shall include at least 30 semester hours and 30 scholastic points earned at Ohio University. A transfer student is required to have a C average at Ohio University. If a transfer student presents more points than semester hours, the number of points accepted towards graduation will be equal to the number of semester hours presented. However, the student's excess points are included in his scholastic average.

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

Residence. The minimum residence requirement for a degree or a diploma is two semesters or the equivalent in summer sessions which should total not fewer than thirty weeks. A student must be in residence during the session in which the degree is granted unless he has been granted permission to graduate in absentia. Saturday and evening class credit may be used to satisfy the residence requirement in combination with one semester or several summer sessions. The number of weeks of residence for part-time students enrolled in Saturday and evening classes or day classes is determined by the number of hours of credit allowed for the course. Credit earned in the Extension Division whether in extension classes or in correspondence study does not count toward the fulfillment of the residence requirement.

Physical Training. Included in the number of semester hours specified for a degree are 4 semester hours of required courses in physical welfare or military science.

There are four exceptions to this regulation:

- (1) A student enrolled in the engineering courses offered by the College of Applied Science is required to complete only 2 semester hours.
- (2) A student who is unable to fulfill the requirement must file with the registrar an excuse or a substitution obtained from the director of the Physical Welfare Division.
- (3) A student who is thirty years of age or over may receive permission to make a substitution for the requirement from the dean of the college in which he is enrolled. The substitution must be filed with the registrar.
- (4) A student who transfers to Ohio University in his senior year with no physical education or physical welfare credit is required to complete only 2 semester hours at Ohio University unless the institution from which he transferred required 4 semester hours for graduation.

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

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

(2) A student who has completed all the requirements for a two or three-year diploma course or a degree course except 4 semester hours or less may graduate in absentia provided he has completed all of the requirements for the diploma or the degree course except the requirements that can be completed in 4 semester hours. The requirement may be fulfilled by extension credit earned at Ohio University either in group extension or in correspondence study.

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

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

Honors. A candidate for the bachelor's degree who graduates with high scholastic average is distinguished on the commencement program by the notation "With highest honor" or "With high honor." A student who makes a scholastic average of 2.50 or above graduates "With highest honor." A student who makes a scholastic average of 2.00 or above, and below 2.50, graduates "With high honor." A transfer student is similarly distinguished if his entire record meets the requirements.

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

A student may be excused from commencement exercises by the permission of the president of the university and the dean of the college and is assessed a fee of \$5. Application for the permission is made in the office of the dean of the college in which the student is enrolled. When approved, the application is filed with the registrar.

A Second Bachelor's Degree. A student who has received a degree and who desires a second bachelor's degree must complete the requirements of the second degree and at least 30 semester hours, 30 scholastic points, and one semester of residence.

REQUIREMENTS FOR HIGH SCHOOL PROVISIONAL CERTIFICATE IN OHIO

A student who is planning to teach in the secondary field and who has met the entrance requirements should register in the College of Education for the degree of Bachelor of Science in Education with specialization in his chosen field. The courses outlined by the College of Education include the requirements set up by the Department of Education of the State of Ohio. However, under the certification laws, a student enrolled in another degree college may meet the requirements for a teaching certificate by completing the minimum certificate requirements and the requirements for the degree. The student also needs to meet the prerequisites for the courses offered in the College of Education, especially the prerequisites specified for courses in observation and participation and in student teaching. Students who wish to teach in another state should consult the teaching certificate requirements of that state. The certificate granted by the Department of Education of Ohio qualifies the student to teach the majors and minors specified on the certificate in the secondary schools and in the upper grades if the work is departmentalized.

The minimum requirements in education specified by the State Department of Education are:

	Sem. Hrs.
Administration, organization, or management-----	2 or 3
Educational psychology -----	2 or 3
Methods (Special subjects require 2-6)-----	2
Principles of teaching or education-----	2 or 3
Student teaching -----	3 to 5
Electives: Educational sociology, history of education, introduction to teaching, school law, tests and measurements, any other educational course -----	2 or 3
Total -----	17 to 19

The minimum requirements for teaching majors and minors in academic subjects are:

Teaching Fields & High School Units	Teaching Major 18 Sem. Hrs.	Teaching Minor 15 Sem. Hrs.	Qualifies To Teach
English—3 units	Required 12 sem. hrs.	Required 6 sem. hrs.	Comp. & rhetoric
	Eng. composition ---6	Eng. composition ---3	American lit.
	Eng. & Am. poetry---3	Eng. or Am. prose or poetry -----3	English lit.
	Eng. & Am. prose---3		Classics
	Elective 6 sem. hrs. in literature, public speak- ing, any other English or in required subjects	Elective 9 sem. hrs. same as major elective	Lib. sc. and speech, if included in major or minor
Foreign Language } 2 units	18 semester hours in one language in usual sequence	15 semester hours in one language in usual sequence	Subject in which prep- aration has been made

CERTIFICATION REQUIREMENTS

Teaching Fields & High School Units	Teaching Major 18 Sem. Hrs.	Teaching Minor 15 Sem. Hrs.	Qualifies To Teach
History—2 units	Required 12 sem. hrs.	Required 6 sem. hrs.	
	World history -----3 Am. history -----3 Government or Political science ----3 Modern trends -----3	World history -----3 Am. history -----3	History Political science Civics Government Social civics
	Elective 6 sem. hrs. in any other branch of secular history or in required subjects	Elective 9 sem. hrs. same as major elective	
Mathematics—2 units	Required 9 sem. hrs.	Required 6 sem. hrs.	Arithmetic
	College Algebra ----3 College Geometry ----3 Trigonometry -----3	College Algebra ----3 College Geometry ----3	Com. arithmetic Algebra Geometry
	Elective 9 sem. hrs. in any higher math., astronomy, com. arith., statistics, or in required subjects	Elective 9 sem. hrs. same as major elective	
Science Biological Science—1 unit	Required 9 sem. hrs.	Required 6 sem. hrs. in zoology, botany, general biology or any combination of the three	Biology Zoology Botany Physiology Hygiene General science Agriculture, if included in major or minor
	Zoology -----3 Botany -----3 or gen. biology-----6 Physiology, hygiene or agr.-----3		
	Elective 9 sem. hrs. in entomology, bacteriology, or in required subjects	Elective 9 sem. hrs. same as major elective	
Earth Science—1 unit	Required 12 sem. hrs.	Required 6 sem. hrs.	Geography
	Geology -----3 to 9 Geography -----3 to 9	Geology -----3 Geography -----3	Com. geography General science
	Elective -----6	Elective -----9	Geology
Physical Science—1 unit	Required 12 sem. hrs.	Required 6 sem. hrs.	Physics
	Physics -----6 Chemistry -----6	Physics -----3 Chemistry -----3	Chemistry General science
	Related subjects in physics or chemistry -----6	Related subjects in physics or chemistry -----9	
Social Science—1 unit or 1 unit of hist. or geog.	Required 9 sem. hrs.	Required 6 sem. hrs.	Economics Sociology Guidance Civics, econ. geog., ind. geog., com. geog., bus. sc. or adm., if included in college work
	Economics -----3 Sociology -----3 Ethics, philosophy, logic, government; any one or any combination -----3	Economics -----3 Sociology -----3	
	Elective 9 sem. hrs. in Econ. geog. Social civics Indus. history Commercial geog. Industrial geog. or in required subjects	Elective 9 sem. hrs. same as major elective	

Teaching Fields & High School Units	Teaching Major 45 Sem. Hrs.	Teaching Minor	Qualifies To Teach
Special Subjects— Business Education	Stenography -----6	See below	All phases of business education
	Typewriting -----3*		
	Bookkeeping and accounting -----6		
	Methods -----2**		
	Marketing, advt., retailing, etc.		
	Electives in required or related subjects		

The minimum requirements for a teaching major in a special field involve the completion of a college major of not less than 40-45 semester hours in a field with the exception of art and music which require at least 60 semester hours.

The minimum requirements for a teaching minor in a special field are as follows:

	Sem. Hrs.
Business Education:	
Bookkeeping -----	11
Bookkeeping and accounting (9), methods (2). Qualifies to teach bookkeeping only.	
Bookkeeping-Social Business -----	20
Bookkeeping and accounting (9), business law, economic geography, economics, and business organization (9), methods in accounting (2). Qualifies to teach bookkeeping, business law, economics, geography, business economics, business organization and management.	
Note. Methods courses in any of these subjects may be counted in computing majors.	
Salesmanship-Merchandising -----	20
Marketing principles (3), salesmanship (3), advertising, retailing, merchandising, and economic geography (12), elective (2) in above or pertinent subjects. Methods not essential if included in general education. Qualifies to teach merchandising, retail store selling, salesmanship, advertising, and economic geography.	
Stenography-Typewriting -----	20
Shorthand (9†), typewriting (3), methods (2), office practice (3), business English (3). Qualifies to teach shorthand, typewriting, business English, clerical practice, and secretarial practice.	
Typewriting -----	5
Typewriting (3), methods (2). Qualifies to teach typewriting only.	
Fine Arts -----	17
Freehand drawing (6), painting (3), design (3), art appreciation (2), methods (3).	
Home Economics -----	18
Includes foods, clothing, home making, and methods.	
Manual Arts -----	16
Includes woodworking, metal working, general shop, and methods.	
Music -----	18
Includes sight singing, ear training and elementary theory (4), history and appreciation (4), special methods including observation in music (6), ensemble (glee club, chorus, orchestra, band) and applied music (4).	
Physical Education -----	16
Includes the principles, organization, and administration of health and physical education (4), theory and practice of physical education including activities other than stunts, apparatus, tumbling, swimming, elementary school activities, dancing, etc. (4), theory and practice of physical education including athletic coaching in intramural and interscholastic athletics (4), health education including the teaching of health and school health problems (4).	

*50 word per minute skill.

**Primarily typewriting and shorthand.

†Adequate high school training reduces credit to 6 sem. hrs.

THE UNIVERSITY COLLEGE

Organization. The University College is organized for students regularly matriculating as freshmen in Ohio University. The college was established in 1935 with the view of helping the incoming student make his adjustments to college life rapidly and effectively. In accordance with the recent trend to integrate high school education with college life and curricula, the University College continues the general education of the student and offers effective preparation and guidance for the choice of the fields in which he expects to specialize during the succeeding years of college life. An important feature at Ohio University is the provision for counselors whereby every student in the University College receives the personal advice and friendly counsel of a member of the faculty. This counseling program is of paramount importance to the successful achievement of the objectives of the University College. It is expected that the counseling and the foundation of general education laid during this year will enable the student to take his place naturally as a mature member of the university community and to make a deliberate and wise choice for his future course.

Divisions. There are two divisions of the University College, a men's division and a women's division. The men's division functions under the direction of the dean of men, assisted by an executive committee; the women's division functions under the direction of the dean of women and her staff.

Program. The training received in high school and in the University College is regarded as a unit. The objective is to insure, in the five-year period, a minimum foundation of substantial general education for every student. The standard established for the high school period of four years plus the courses taken in the University College includes a minimum program as follows:

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

One year of college mathematics, one year of one college foreign language, or one year of one college laboratory science is regarded as two years of high school work or two years in the above program. However, a student who enters with only one year in a foreign language or with one or two years in a laboratory science is required to complete a year of college work in one subject.

Students excused from Eng. 3 by a high grade in the English proficiency test fulfill the University College requirements by completing Eng. 4. A student who enters the university with three years of English satisfies the five-year requirement by passing the year course in English composition offered in the University College.

Registration. Registration in the University College is held after the registration for upperclassmen. All students registering in the college are assigned a definite time to consult with their respective counselors for the purpose of arranging their schedules for the semester. During the registration process, the schedules are again checked and approved by the deputy registrars.

When an entering student has completed the number of years required in all the fields except English, the program of studies for the freshman year in the college includes courses selected from at least three of the five fields of the above program. A freshman may register for only 3 semester hours in a vocational or technical subject. If the student has chosen his field of specialization, he should consult the suggestions given by that department for the courses to be taken in the University College.

Admission to Degree College. When a student enrolled in the University College has fulfilled the minimum subject requirements, has completed 25 semester hours with half as many points as hours carried, and is not on scholastic probation, he is released from the University College and is permitted to enroll in the degree college from which he plans to graduate. In the degree college the curriculum is planned so that the requirements for a degree may be completed in three additional years.

A student who fails to meet these requirements continues to register in the University College until his requirements are fulfilled and he has been officially released. After the first year, the student pursues studies in the field of his choice without restriction except for the courses required by the University College program. Students on scholastic probation remain in the University College until probation is removed.

Three-year Diploma in Education. Freshmen who desire to enroll in the three-year diploma courses in education are registered for one year in the University College under curricula determined by the College of Education. If the student completes at least 25 semester hours of the year's schedule with at least half as many scholastic points as semester hours attempted, is not on scholastic probation, and has a passing grade in English composition, he is admitted to sophomore rank in the College of Education.

Elective Study. The University College also offers an opportunity for elective study for the student who does not expect to complete a curriculum leading to a degree and who is planning to remain in the university only one or two years. Such students are given an opportunity to choose subjects of study suited to their individual desires and needs except that they are required to take English composition, physical welfare, and college problems. Men students may substitute military training for physical welfare.

Requirements for admission to elective study are the same as for admission to the University College. However, a student under twenty-one years of age must also present a written statement of approval from his parent or guardian with his application for admission. At the opening of any session, a student enrolled for elective study may transfer to a degree college if he

has completed the requirements of the University College program. A student enrolled for elective study is limited to the completion of 64 semester hours. When he has completed this amount, he is required to fulfill the University College requirements and to work toward a degree.

Men and women who are twenty-one or more years of age and who have not completed fifteen units of high school work are admitted to elective study upon the recommendation of the respective dean of the University College. Such persons are enrolled in regular classes, receive the same instruction, and are subject to the same standards as other students. Applicants for admission under this provision must present satisfactory evidence that they are at least twenty-one years of age. These students may choose any subjects they wish, provided that they have satisfied the prerequisites for the courses.

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences aims primarily to offer opportunities for what is commonly called a liberal education in contrast with professional or vocational training provided by the other colleges. It also affords opportunities for pursuit of most of the less strictly technical subjects which occupy the attention of students enrolled elsewhere in the university. It is in this way a service college for the whole of the university. Students from the other colleges are admitted to its courses on the same basis as are students registered in the College of Arts and Sciences.

As an undergraduate degree college with conscious emphasis on breadth of training, which is its primary aspect, the College of Arts and Sciences offers two degrees, the Bachelor of Arts and the Bachelor of Science. Both degrees are characterized by a considerable spread of interests. These degrees not only permit specialization, but, indeed, require sufficient concentration in major and minor fields to insure some degree of mastery in a particular field. In general, the distinction between the curricula for the two degrees in the College of Arts and Sciences lies in the fact that for the Bachelor of Arts degree greater emphasis is placed upon the old and new humanities, such as English, foreign languages and literature, and the social sciences; whereas, for the Bachelor of Science degree, the chief emphasis is placed upon the natural sciences and mathematics.

Fields of Instruction. The fields of instruction (in some cases subjects only are included) are grouped as follows:

1. **Language, Literature, Fine Arts, and Journalism Group:**
Archaeology, English, French, German, Greek, Italian, Latin, and Spanish; dramatic art, music, painting and allied arts; journalism
2. **Natural Science and Related Science Group:**
Biological sciences: botany, Psych. 109, 201, 207, zoology
Physical sciences: chemistry, geology, Math. 14 (astronomy), physics
Related sciences: agriculture, engineering, home economics, mathematics (not included above), industrial arts
3. **Social Science Group:**
Commerce, economics, education, geography, government, history, personal relations, philosophy, physical welfare, psychology (not included above), sociology

BACHELOR OF ARTS. The general requirements for the degree of Bachelor of Arts are: A minimum of 124 semester hours and 124 scholastic points. The total hours include the requirements of the University College, 4 semester hours of physical welfare or military science, and three years of work which comprise approximately 94 semester hours under the direction of the College of Arts and Sciences. Not fewer than 60 semester hours shall be in courses numbered 100 to 395 with at least 20 semester hours in courses numbered 200 to 395.

The specific requirements for the degree are: Hours

- | | |
|--------------------------------------------|----|
| 1. English: (See footnote) _____ | 12 |
| Eng. 1-2 or 3-4 English Composition | |
| Eng. 101, 102 Sophomore English Literature | |

Note. English Composition, the beginning or first year of a foreign language, Math. 1, 3, and courses in teaching techniques do not count toward the hours required in the respective major or minor.

Hours

2. Foreign Language: (See footnote) ----- 6-20
- (1) Students who enter with four or more years of one foreign language take a language for one year. Students who enter with two years in each of two languages may continue in either language for one year, except that those who have had French or Spanish may change to Italian, and those who have had Latin may change to Greek.
- (2) Students who enter with three years in foreign language continue one language for one and one half years; if they wish to change to another language, they take two years.
- (3) Students who enter with two years in foreign language take two years of a language. Students may change to a new language but must have at least two years in any one language, either in high school or in college, or in both.
- (4) Students who enter with less than two years in foreign language take three years, with at least two years in one language.
3. Natural Science and Mathematics: 6 semester hours shall be in one subject ----- 12
- Biological sciences: botany, *Psych. 109, 201, and 207, zoology
Physical sciences: chemistry, geology, physics
Mathematics: except Math. 1, 3
- (1) Students who enter with one year in biological science and one year in physical science may fulfill the requirement in natural science, mathematics, or in a combination of them
- (2) Students who enter with one year in biological science shall include one year of physical laboratory science in the 12 semester hours
- (3) Students who enter with one year in chemistry or one year in physics, or both, shall include one year of biological laboratory science in the 12 semester hours
- (4) Students who enter with neither biological science nor physical science shall include one year of a laboratory science in the 12 semester hours
4. Social Science: 6 semester hours shall be in one subject and 6 semester hours shall be in a course or in courses numbered 100 or above ----- 14
- Commerce, economics, education, geography, government, history, philosophy, physical welfare (except the 4 semester hours in the general requirements), *psychology, except Psych. 109, 201, and 207, sociology
5. The Group and Subject Major: The major requirement includes 36 semester hours in a group with not fewer than 20 semester hours in a single field or subject unless otherwise indicated in the major requirements given in the Courses of Instruction. See footnote on page 60.
6. The Group and Subject Minor: The minor requirement includes 18 semester hours in another group with not fewer than 12 semester hours in a single field or subject. See footnote on page 60.

BACHELOR OF SCIENCE. The general requirements for the degree of Bachelor of Science are: A minimum of 124 semester hours and 124 scholastic points. The total hours include the requirements of the University

*A student may not elect to fulfill the natural science requirement and the social science requirement in the same subject or field.

College, 4 semester hours of physical welfare or military science, and three years of work which comprise approximately 94 semester hours under the direction of the College of Arts and Sciences. Not fewer than 60 semester hours shall be in courses numbered 100 to 395 with at least 20 semester hours in courses numbered 200 to 395. Not more than 50 semester hours in any department are counted toward the degree requirements.

The specific requirements for the degree are:	Hours
1. English: (See footnote on page 60.)-----	9
Eng. 1-2 or 3-4 English Composition and 3 semester hours of literature	
2. Foreign Language: French or German preferred. (See footnote on page 60.)-----	0-16
Students who enter with four years in one foreign language or two years in each of two foreign languages are excused from this requirement	
3. Natural Science and Mathematics -----	54
The requirement includes a major in one of the departments (botany, chemistry, geology, mathematics, physics, zoology), and not fewer than 6 semester hours in each of two departments other than the major department. See Courses of Instruction for the major requirements	
4. Social Science: 6 semester hours shall be in one subject and 6 semester hours shall be in a course or in courses numbered 100 or above -----	14
Commerce, economics, education, geography, government, history, personal relations, philosophy, physical welfare (except the 4 semester hours in the general requirements), psychology except Psych. 109, 201, and 207, sociology	

PREMEDICAL CURRICULA

The Bachelor of Arts degree or the Bachelor of Science degree is granted to a student in the College of Arts and Sciences who has completed the requirements of the freshman, sophomore, and junior years (94 semester hours and 94 scholastic points), who enrolls in an accredited professional school of medicine or dentistry, and who completes a full year's work with no failures and is advanced without condition to the second year.

The curriculum for premedical students covers the minimum requirements for admission to a medical college. The minimum requirements are the completion of 60 semester hours of college work, which include: general inorganic chemistry, organic chemistry, physics, general biology or zoology, comparative anatomy, embryology, English, and a reading knowledge of either French or German, the latter preferred. Most medical colleges require additional courses in the sciences. It is rarely possible to complete the collegiate preparation in less than three years. Students are urged to complete, whenever possible, a four-year course leading to a degree. A student should possess a liberal culture such as is gained from a thorough acquaintance with English literature and from a knowledge of the social sciences and foreign languages. Some medical colleges require the Bachelor of Arts degree for admission.

Premedical Curriculum:**Freshman Year**

The University College program should include:

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

Sophomore Year

Chem. 115-116—Organic Chemistry	6	Zool. 112—Comparative Vertebrate	
Chem. 119-120—Organic Preparations	2-4	Anatomy	4
Gk. 127—Greek Words in English	2	Electives*	18
Zool. 107—Principles of Heredity	3		

Junior Year

Chem. 109—Quantitative Analysis	4	Zool. 216—Animal Parasites	4
Phys. 5, 6—Introduction to Physics	5	Electives*	12
Zool. 201—Vertebrate Embryology**	4		

Senior Year

Zool. 205—Principles of Physiology	4	Zool. 207—Mammalian Physiology	4
Zool. 211—General Bacteriology	4	Electives*	16
Zool. 202—Mammalian Anatomy***	4		

Predental Curriculum:**Freshman Year**

The University College program should include:

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

Sophomore Year

Chem. 113, 117, 119—Organic Chemistry	5	Zool. 112—Comparative Vertebrate	
Phys. 5, 6—Introduction to Physics	8	Anatomy	4
		Electives*	15

Junior Year

Chem. 105—Qualitative Analysis	2	Zool. 207—Mammalian Physiology	4
Zool. 107—Principles of Heredity	3	Zool. 211—General Bacteriology	4
Zool. 205—Principles of Physiology	4	Electives*	14

Prenursing Curriculum. Students who wish to obtain a college degree and also become registered nurses can fulfill the requirements by completing a three-year curriculum at Ohio University and two years and four months of training at Grant Hospital School for Nurses, Columbus, Ohio.

Applicants must be fitted for nursing both in physique and in personality. A preliminary interview with the training school should be arranged in the freshman year through the chairman of the Department of Zoology. A physical examination is required sometime during May in the junior year.

Freshman Year

The University College program should include:

	Hours		Hours
Chem. 1-2 or 3-4—General Chemistry	8	Psych. 1—General Psychology	3
French, Spanish, or German	6-8	Zool. 3-4—General Zoology	6

Algebra should be taken either in high school or in college.

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

**Students taking the four-year course should defer this to the last year.

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

Sophomore Year

Chem. 113, 117—Organic Chemistry	5	Soc. 101—Principles of Sociology	3
Eng. 101, 102—Sophomore Literature	6	Soc. 103—Social Problems	3
Phil. 103 or approved electives	3	Zool. 107—Principles of Heredity	3
Phil. 111—Business and Professional Ethics	2	Zool. 125—Elementary Physiology	4
Psych. 8—Intro. to Applied Psychology	3		

Junior Year

Phys. 5, 6—Introduction to Physics	8	Zool. 209—Biological Chemistry	4
Psych. 210—Mental Hygiene	3	Zool. 211—General Bacteriology	4
Zool. 115—Elements of Anatomy	3	†Electives	10

Suggested electives: Govt. 1, 2, Math. 125, Phil. 204, and Soc. 218.

PREPROFESSIONAL CURRICULA

Preparation for Teachers. A student who desires to receive the degree of Bachelor of Arts or Bachelor of Science may qualify for a certificate to teach in the secondary schools by completing the requirements for certification as given on page 54.

Preparation for Lawyers. A student who desires to prepare for the profession of law may complete the requirements of the freshman, sophomore, and junior years (94 semester hours and 94 scholastic points), enroll in an accredited law school, complete a full year's work, and receive the degree of Bachelor of Arts. No curriculum is prescribed. Students are advised to take work in social science with emphasis on government, history, and economics.

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

Technologists who wish to be recognized by the American Society of Clinical Pathologists must have had university training in appropriate subjects as a basis for practical hospital training. Students who satisfactorily complete the curriculum receive the degree of Bachelor of Science. At least three and a half years are devoted to classroom and laboratory instruction. This is followed by six months practical hospital experience in Mount Carmel Hospital, Columbus, Ohio, which normally begins either in the middle of the fourth year or at the end of that year.

Freshman Year

The University College program should include:

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

Sophomore Year

Chem. 113, 117—Organic Chemistry	5	Zool. 123—Histology	4
Zool. 107—Principles of Heredity	3	Electives*	17
Zool. 115—Elements of Anatomy	3		

Junior Year

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

Senior Year

Chem. 109—Quantitative Analysis	4	Electives*	6
Zool. 133—Animal Microtechnic	3	Hospital residence	15
Zool. 145—Clinical Technic	4		

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

*See requirements for the Bachelor of Science degree.

Preparation for Professional Social Work. Students interested in professional social work should refer to the major requirements given at the beginning of the Department of Sociology in the Courses of Instruction and should consult with the chairman of the department.

Preparation for Wild Life Conservation. Students interested in botanical wild life conservation service should refer to the major requirements given at the beginning of the Department of Botany and should consult with the chairman of the department; those interested in zoological wild life control and entomology should refer to the major requirements given at the beginning of the Department of Zoology in the Courses of Instruction and should consult with the chairman of the department.

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

THE COLLEGE OF EDUCATION

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

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

Candidates for the degree complete a minimum of 124 semester hours and 124 scholastic points.

BACHELOR OF SCIENCE IN EDUCATION

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

	Hours
1. College problems -----	1
2. Education and Psychology -----	26
Psych. 1—General Psychology -----	3
Psych. 5—Educational Psychology -----	3
Ed. 130—Principles of Secondary Education -----	3
Ed. 131—Educational Tests and Measurements (Not required of students who have majors in special subjects) -----	2
Ed. 230—High School Administration or	
Ed. 240—School Administration -----	3
Ed. 180 or 182—Observation and Participation -----	3
Ed. 181 or 183—Student Teaching -----	4
Ed.—Teaching Techniques -----	See Major
Elect from the following:	5
Ed. 232—High School Curriculum -----	2
Ed. 248—Vocational Guidance -----	2
Ed. 251 or 252—History of Education -----	3-2
Ed. 281—Educational Statistics -----	3
Psych. 203—Mental Measurements -----	3
Psych. 210—Mental Hygiene -----	3

	Hours
3. English -----	9-12*
Eng. 1-2 or 3-4—English Composition -----	6
Eng. 102, 111, or 112 -----	3-6*
4. Foreign Language -----	0-8
Two units of high school credit or one year of college credit.	
5. Painting -----	2-1
P.A.A. 125—The Arts in Every Day Life or Mus. 5—Music Appreciation	
6. Physical Welfare (military science† may be substituted for 2 semester hours)-----	4
7. Science and Mathematics-----	6-10
Biology, botany, chemistry, mathematics, physics, zoology	
8. Social Studies -----	12
Economics, geography, government, history, philosophy, sociology	

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

Agriculture

Select 27 semester hours in agriculture:

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

Biology (see Botany and Zoology)

Botany

Bot. 1, 2 or 101, 102—Freshman or General Botany -----	6	Bot. 221—Plant Pathology -----	3
Bot. 205—Plant Physiology -----	3	Bot.—Approved electives -----	10
Additional requirements:			
Chem. 1-2 or 3-4—General Chemistry -----	8	Zool. 3-4—General Zoology -----	6
Ed. 168b—Teaching of Botany or Ed. 168g—Teaching of General Science--	2		

Chemistry

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

Commerce — Accounting (Bookkeeping—Social Business)**

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

*Required if no foreign language is taken.

**New title conforms with revised regulations of the State Department of Education, effective September 1, 1939.

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

Commerce — Accounting and Secretarial Studies (Business Education)***

	Hours	Hours	
Acct. 75-76—Elementary Accounting	6	Fin. 101—Money and Credit	3
Acct. 125—Intermediate Accounting	3	Sec. St. 15-16—Typewriting	4
Acct. 156, 175, 195, 206, or 224—Elective	3	Sec. St. 31-32—Shorthand	6
B. Law 155-156—Business Law	6	Sec. St. 120—Business Letter Writing	3
B. Mgt. 15—Introduction to Business Management or		Sec. St. 151—Dictation and Transcription	5
B. Mgt. 211—Industrial Management or		Sec. St. 180—Operation of Office Machinery	2
B. Mgt. 271—Business Policy or			
Ec. 212—Administration of Personnel	3		
Ec. 15—Economic Resources and Industries of the World	3		
Additional requirement:			
Ed. 161a, 161b, 161s, 161t—Teaching Techniques	2		

Commerce — Economics

Ec. 101-102—Principles of Economics	6	Ec.—Approved electives	16
Additional requirements:			
Ed. 169s—Teaching of Social Science	2	Soc. 103—Social Problems	3
Soc. 101—Principles of Sociology	3		

Commerce — Retail Selling (Salesmanship—Merchandising)*

Acct. 75-76—Elementary Accounting or		Mkt. 155—Marketing Principles	3
Acct. 101-102—Secretarial Accounting	6	Mkt. 171—Principles of Personal Selling	2
Advt. 155—Advertising Principles	3	Mkt. 201—Retailing	3
Advt. 186—Retail Advertising	3	Mkt. 205—Economics of Fashion	3
B. Mgt. 15—Introduction to Business Management	3	Mkt. 257—Retail Selling Problems	2
Ec. 101-102—Principles of Economics	6	Mkt. 260—Store Practice	5
Additional requirements:			
Fd. 161a—Teaching of Business Subjects	2	Psych. 4—Business Psychology or	
H. Ec. 256—Economics of Consumption	3	Psych. 6—Psychology of Advertising and Selling	3
P. A. A. 125—The Arts in Everyday Life or			
P. A. A. 147—Principles of the Space Arts in Advertising	2		

Commerce — Secretarial Studies (Stenography—Typing)***

B. Law 155—Business Law	3	Sec. St. 151—Dictation and Transcription	5
Ec. 15—Economic Resources and Industries of the World	3	Sec. St. 171, 172—Secretarial Theory	3
Fin. 101—Money and Credit	3	Sec. St. 175—Secretarial Practice	4
Sec. St. 15-16—Typewriting	4	Sec. St. 185—Office Management	2
Sec. St. 31-32—Shorthand	6	Com.—Approved electives	6
Sec. St. 120—Business Letter Writing	3		
Additional requirements:			
Ed. 161s—Teaching of Shorthand	2	Ed. 161t—Teaching of Typewriting	2

Dramatic Art — Dramatic Production

Dram. A. 1—Speech Survey	1	Dram. A. 150—Advanced Acting Technique	3
Dram. A. 15—Voice and Diction†	2	Dram. A. 250—Play Direction	3
Dram. A. 21—Scenery and Lighting	3	Dram. A.—Electives	5
Dram. A. 149—Principles of Acting	3		
Additional requirements:		Eng.—English or American Literature	6-9
Ed. 162h—Teaching of High School Dramatics	2		
Ed. 162x—Teaching of Speech in the High School or			
Ed. 162s—Teaching of Speech in the Grades	2		

Dramatic Art — Speech

Dram. A. 1—Speech Survey	1	Dram. A. 134—Oral Interpretation of Literature	2
Dram. A. 3—Public Speaking*	2	Dram. A. 195—Introduction to Speech Pathology	3
Dram. A. 15—Voice and Diction	2	Dram. A.—Electives	6
Dram. A. 25—Principles of Argumentation	2		
Dram. A. 110—Parliamentary Law	1	Eng.—English or American Literature	6-9
Additional requirements:			
Ed. 162h—Teaching of High School Dramatics	2		
Ed. 162s—Teaching of Speech in the Grades or			
Ed. 162x—Teaching of Speech in the High School	2		

*New title conforms with revised regulations of the State Department of Education, effective September 1, 1939.

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

†May be omitted upon successful completion of proficiency examination.

English

	Hours		Hours
Eng. 3-4—English Composition	6	Eng.—Approved electives	16
Eng. 102, 111, 112, or 130	6		

Additional requirement:

Ed. 164a, b—Teaching of English in Senior High School.....	4
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French

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

Additional requirements:

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

Geography

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

Additional requirement:

Ed. 169g—Teaching of Geography in Up- per Grades and High School.....	3
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German

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

Additional requirements:

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

Govt. 1, 2—American Government	6	Hist. 110, 111—History of the United	
Hist. 1, 2—Survey of European Civili- zation	6	States	6
		Hist. and Govt.—Approved electives	10

Additional requirement:

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

H. Ec. 1—Clothing Selection and Con- struction or		H. Ec. 222 or 227—Experimental or Quan- tity Cookery	3
H. Ec. 4—Clothing Appreciation	3	H. Ec. 225—Dietetics	3
H. Ec. 21—Foods and Nutrition or		H. Ec. 251—Home Management	2
H. Ec. 22—Economics of Foods	3	H. Ec. 253—Home Management Labora- tory	2
H. Ec. 105—Household Equipment	3	H. Ec. 256—Economics of Consumption.....	3
H. Ec. 110—Textiles	3	H. Ec. 271, 272—Child Development	4
H. Ec. 131—Home Planning	3	H. Ec. 273—Family Relationships	3
H. Ec. 216—Clothing Design and Con- struction or		H. Ec.—Approved electives	2
H. Ec. 211—Economics of Clothing.....	3		

Additional requirements:

Chem. 1-2 or 3-4—General Chemistry	8	P. A. A.—Approved electives	5
Ed. 168h—Teaching of Home Economics.....	3	Zool. 141—Elementary Bacteriology	3

Industrial Arts

Ind. A. 2—Elementary Woodworking	3	Ind. A. 124—Machine Shop	2
Ind. A. 7—Sheet Metal	2	Ind. A. 141-142—Printing	6
Ind. A. 8—General Shop	3	Ind. A. 212—School Shop Equipment	
Ind. A. 109—Cabinet Making	3	and Organization	3
Ind. A. 116—Constructive Design	2	Ind. A. 226—History of Industrial and	
Ind. A. 121—Pattern Making, Forge, and Foundry	2	Vocational Arts	3
		Ind. A.—Approved electives	6

Additional requirements:

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

Italian

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

Additional requirements:

Ed. 165f, Ed. 165o, Ed. 165r, or Ed. 165s—Teaching of French, Latin, or Spanish.....	2	One other foreign language.....	12-16
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*May include Eng. 271 Dante.

Latin

For those entering with 4 years of Latin:

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

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

Additional requirements:

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

Math. 4—Solid Geometry or		Math. 14—Descriptive Astronomy,	
Math. 105—College Geometry	3	Math. 34—Mathematics of Finance, or	
Math. 5-6—Freshman Mathematics	10	Math. 201—Theory of Equations.....	3
Math. 117—Differential Calculus	4		
Math. 118—Integral Calculus	4		

Additional requirements:

Ed. 168m—Teaching of Mathematics in High School	3	Ed. 281—Educational Statistics	3
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Music — General Supervision

Mus.—Applied Music	6	Mus. 113-114—Analysis and Form.....	4
Mus.—Piano	4	Mus. 127—Music Appreciation	3
Mus.—Voice	4	Mus. 131—Music Materials and Systems..	2
Mus. 3-4, 103-104—Ear Training and Sight Singing	8	Mus. 133-134—Instrumentation	6
Mus. 11, 12—Music History	4	Mus. 173-174—Conducting	2
Mus. 105-106, 107-108, 111-112—Harmony..	8		

Additional requirements:

Ed. 166d—Teaching of Dances and Games	1	Ed. 166s—Teaching of Class Stringed Instruments	1
Ed. 166f—Teaching of Music in First Six Grades	3	Ed. 166w—Teaching of Class Wind Instruments	1
Ed. 166j—Teaching of Music in Junior and Senior High School.....	3		

Music — Instrumental Supervision

Mus.—Band	6	Mus. 12—Music History or	
Mus.—Major Instrument	8	Ed. 166f—Teaching of Music in First Six Grades	2-3
Mus.—Minor Instrument	4	Mus. 105-106, 107-108, 111-112—Harmony..	8
Mus.—Orchestra	6	Mus. 113-114—Analysis and Form.....	4
Mus.—Piano	2	Mus. 127—Music Appreciation	3
Mus. 3-4, 103-104—Ear Training and Sight Singing	8	Mus. 133-134—Instrumentation	6
Mus. 11—Music History	2	Mus. 173-174—Conducting	2

Additional requirements:

Ed. 166b—Teaching of Instrumental Music	3	Ed. 166j—Teaching of Music in Junior and Senior High School.....	3
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Note. Achievement of some proficiency in playing an orchestral instrument is expected of one who elects to enter upon the instrumental course.

Painting and Allied Arts

P. A. A. 11-12—Theory of Design.....	6	P. A. A. 171—House Decoration	3
P. A. A. 21-22—History of the Space Arts	6	P. A. A. 207—Advanced Design	3
P. A. A. 103—Practical Design	2	P. A. A. 249—Art Supervision and Curricula	2
P. A. A. 113—Lettering	3	P. A. A. 45—Methods in Representation (2),	
P. A. A. 114—Textile Design	3	P. A. A. 71—Sketching (2),	
P. A. A. 115—Pottery	2	P. A. A. 121—Representation (3),	
P. A. A. 117—Drawing	3	P. A. A. 124—Jewelry (2),	
P. A. A. 118—Water Color	2	P. A. A. 131—Modeling and Sculpture (3),	
P. A. A. 137—Costume Design	2	P. A. A. 209—Prints (3), and	
P. A. A. 152—Bookbinding	2	P. A. A.—Electives from history or appreciation	14

Additional requirements:

C. E. 1—Mechanical Drawing	2	Ed. 160h—Teaching of the Space Arts...	2
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Physical Welfare — Men

Hours	Hours		
P. W. 1-2—Sports -----	2	P. W. 153—Nature and Function of Play_	2
P. W. 22—Personal and Public Health_	3	P. W. 204—Principles of Physical Welfare	2
P. W. 121-122, 123, 124, 171—Physical		P. W. 206—Organization and Administra-	
Activities -----	7	tion of Physical Welfare -----	2
P. W. 125—Scouting -----	1	P. W. 250—Community Recreation -----	2
P. W. 127—First Aid -----	1	P. W. 252—School Health Program -----	3
P. W. 128—Athletic Training -----	1	P. W. —Electives -----	4
P. W. 133—Theory and Practice of			
Adapted Activities -----	2		
P. W. 152—Kinesiology -----	2		
Additional requirements:			
Ed. 167d—Coaching of Baseball (1),		Ed. 167h—Teaching of Health -----	2
Ed. 167e—Coaching of Basketball (2),		Zool. 3-4—General Zoology -----	6
Ed. 167f—Coaching of Football (2), and		Zool. 115—Elements of Anatomy -----	3
Ed. 167t—Coaching of Track (1) -----	4	Zool. 125—Elementary Physiology -----	4

Physical Welfare — Women

P. W. 1, 2, 6, 7, 8—Sports and Dance_	5	P. W. 171, 172—Organization of Physical	
P. W. 22—Personal and Public Health_	3	Activities -----	4
P. W. 121, 122—Physical Activities -----	2-6	P. W. 204—Principles of Physical Welfare	2
P. W. 127—First Aid -----	2	P. W. 206—Organization and Administra-	
P. W. 131—Mass Games -----	1	tion of Physical Welfare -----	2
P. W. 132—Physical Welfare Practice_	1	P. W. 250—Community Recreation -----	2
P. W. 133—Theory of Adapted Activities_	2	P. W. 252—School Health Program -----	3
P. W. 152—Kinesiology -----	2	P. W. —Electives -----	5-9
Additional requirements:			
Ed. 167a, 167b—Teaching of Coaching_	4	Zool. 115—Elements of Anatomy -----	3
Ed. 167h—Teaching of Health -----	2	Zool. 125—Elementary Physiology -----	4
Zool. 3-4—General Zoology -----	6		

Physics

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

Psychology

Psych. 1—General Psychology -----	3	Psych. 203—Mental Measurements -----	3
Psych. 3—Child Psychology -----	3	Psych.—Electives -----	12
Psych. 5—Educational Psychology -----	3		
Electives:			
Psych. 109—Experimental Psychology_	3	Psych. 205—Clinical Psychology -----	3
Psych. 113—Psychology of Junior and		Psych. 209—Motivation -----	3
Senior High School Pupils_	2	Psych. 210—Mental Hygiene -----	3
Psych. 116—Psychology of Individual		Psych. 217—Psychology of Personality_	3
Differences -----	2	Psych. 219—Adv. Clinical Psychology_	3
Psych. 204—Psychology of Exceptional		Psych. 233—Learning and Memory_	2
Children -----	2	Psych. 278—Adv. Educational Psychology	3

Sociology

Soc. 101—Principles of Sociology_	3	Soc.—Approved electives -----	12
Soc. 103—Social Problems -----	3		
Additional requirements:			
Ec. 101-102—Principles of Economics_	6	Ed. 169s—Teaching of Social Science_	2

Spanish

Sp. 1-2—Beginning Spanish -----	8	Sp.—Approved electives -----	14
Sp. 101-102—Intermediate Spanish -----	8		
Additional requirements:			
Ed. 165s—Teaching of Spanish_	2	One other foreign language_	12-16

Zoology

Zool. 3-4—General Zoology -----	6	Zool. 125—Elementary Physiology -----	4
Zool. 119—General Entomology -----	4	Zool.—Approved electives -----	10
Additional requirements:			
Bot. 1, 2 or 101, 102—Freshman or Gen-		Ed. 168z—Teaching of Zoology_	2
eral Botany -----	6		

The following are the general requirements for a major in any phase of elementary education:

	Hours
1. College Problems -----	1
2. Education and Psychology-----	14
Psych. 1—General Psychology -----	3
Ed. 111—Elementary Education -----	6
Ed. 141—Visual Education -----	2
Ed. 255—Philosophy of Education -----	3
3. English -----	12
Eng. 1-2 or 3-4—English Composition -----	6
Eng. 102, 111, 112, or 130-----	6
4. Dramatic Art -----	2
Dram. A. 15—Voice and Diction	
5. Foreign Language -----	0-8
Two units of high school credit or one year of college credit.	
6. Home and Shop Arts-----	3
H. Ec. 55 or 56—Household Arts for the Elementary School-----	2
Ind. A. 122—Elementary Industrial Arts -----	1
7. Music -----	2
Mus. 2—Music Fundamentals	
8. Painting and Allied Arts-----	3
P. A. A. 3—Fundamentals of Design -----	2
P. A. A. 157—Appreciation of the Space Arts-----	1
9. Physical Welfare -----	8
P. W.—Freshman and sophomore requirement (military science* may be substituted for 2 semester hours)-----	4
P. W. 22—Personal and Public Health -----	3
Ed. 167p—Teaching of Physical Welfare -----	1
10. Science and Mathematics-----	9-17
Science -----	9
Bot. 133, 134—Nature Study	
Phys. 1, 2—The Physical World	
Mathematics -----	0-8
Two units of high school mathematics or	
Math. 1—Elementary Algebra and	
Math. 3—Plane Geometry	
11. Social Studies -----	17
Geog. 150—Geography and Environment -----	3
Soc. 1—Social Development -----	3
Soc. 107—Educational Sociology -----	2
Elect from the following:	9
Ec. 1, 2—Economic Development or Ec. 101, 102—Principles of Economics	
Govt. 1, 2—American Government or Hist. 110, 111—History of the United States	
Hist. 1, 2—A Survey of European Civilization	
Phil. 103—Introduction to Philosophy	

Additional requirements for a major in intermediate grade education:

Ed. 63b—Teaching of Reading in Intermediate Grades-----	2
Ed. 63g—Teaching of Arithmetic in Intermediate Grades-----	3
Ed. 166g—Teaching of Music in Intermediate Grades-----	2
Psych. 5—Educational Psychology -----	3

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

Junior Year

	Hours
Ed. 60g—Teaching of Design for Intermediate and Higher Grades-----	1
Ed. 64g—Teaching of Language Arts in the Grades or	
Ed. 169f—Teaching of Geography and History in Elementary Grades-----	2-3
Ed. 175—Observation and Participation in Intermediate Grades-----	3
Ed. 176—Student Teaching in Intermediate Grades-----	4
Eng. 10—Juvenile Literature -----	2

Senior Year

Ed. 177—Advanced Student Teaching in Intermediate Grades-----	4
Ed. 211—The Elementary Curriculum -----	3
Ed. 256—Progressive Education at Home and Abroad-----	3
Govt. 105—Current Political and Social Problems-----	2

Additional requirements for a major in kindergarten-primary education:

Sophomore Year

Ed. 1—Play and Play Materials-----	2
Ed. 2—Literature for Early Childhood-----	3
Ed. 63a—Teaching of Reading in Primary Grades-----	2
Ed. 166k—Teaching of Music in Kindergarten-Primary Grades-----	2
Mus.—Piano (Not required for primary teachers)-----	2
Psych. 3—Child Psychology -----	3

Junior Year

Ed. 60c—Teaching of Design for Early Childhood -----	1
Ed. 101—Activities for Early Childhood-----	3
Ed. 171—Observation and Participation in Kindergarten-Primary Grades-----	3
Ed. 172, 173—Student Teaching in Kindergarten-Primary Grades-----	6

Senior Year

Ed. 174—Advanced Student Teaching in Kindergarten-Primary Grades-----	4
Ed. 201—Kindergarten-Primary Curriculum -----	3
Ed. 202—Survey of Early Childhood Education-----	3

Additional requirements for a major in special education:

Sophomore Year

Ed. 64g—Teaching of Language Arts in the Grades or	
Ed. 169f—Teaching of Geography and History in Elementary Grades-----	2-3
Ed. 63b—Teaching of Reading in Intermediate Grades-----	2
Ed. 166g—Teaching of Music in Intermediate Grades-----	2
Ed. 221—Organization of Special Classes-----	2
P. A. A. 103—Practical Design or	
Ed. 101—Activities for Early Childhood-----	2-3
Psych. 5—Educational Psychology -----	3

Junior Year

Ed. 175—Observation and Participation in Intermediate Grades-----	3
Ed. 178—Student Teaching in Special Education-----	4
Ed. 222—Diagnosis and Remedial Instruction in Elementary Subjects-----	2
Psych. 116—Psychology of Individual Differences or	
Psych. 212—Abnormal Psychology and Mental Hygiene-----	2-3
Psych. 203—Mental Measurements -----	3

Senior Year

Ed. 177—Advanced Student Teaching in Intermediate Grades-----	4
Ed. 223—Curriculum for Special Classes-----	3
Ed. 240—School Administration -----	3
Psych. 225—Minor Problems in Psychology -----	2

THREE-YEAR DIPLOMA COURSES

The curriculum for a three-year course in elementary education requires the completion of the general graduation requirements which pertain to the granting of a diploma and a total of 94 semester hours and 94 scholastic points.

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

Freshman Year		Freshman Year	
	Hours		Hours
First Semester		Second Semester	
Bot. 133—Nature Study	3	Bot. 134—Nature Study	3
Eng. 1 or 3—English Composition	3	Eng. 2 or 4—English Composition	3
C. P.—College Problems	1	Dram. A. 15—Voice and Diction	2
H. Ec. 55—Household Arts for the Elem. School or		H. Ec. 55—Household Arts for the Elem. School or	
Mus. 2—Music Fundamentals	2	Mus. 2—Music Fundamentals	2
P. W. 1-9—Physical Welfare	1	P. W. 2-10—Physical Welfare	1
P. W. 22—Personal and Public Health	3	P. A. A. 3—Fundamentals of Design	2
Soc. 1—Social Development	3	Psych. 1—General Psychology	3
Sophomore Year			
Ed. 63b—Teaching of Reading	2	Ed. 64g—Teaching of Language Arts	2
Ed. 63g—Teaching of Arithmetic	3	Ed. 166g—Teaching of Music	2
Ed. 167p—Teaching of Physical Welfare or		Ed. 167p—Teaching of Physical Welfare* or	
Ind. A. 122—Elem. Industrial Arts	1	Ind. A. 122—Elem. Industrial Arts	1
Geog. 150—Geography and Environment	1	Eng. 111 or 112—The Chief American Writers*	3
Hist. 1—Survey of Eur. Civilization	3	Hist. 2—Survey of Eur. Civilization*	3
P. W. 101-115—Physical Welfare	1	Phys. 1—The Physical World*	3
Psych. 5—Educational Psychology	3	Soc. 107—Educational Sociology*	2
Junior Year			
Ed. 111—Elementary Education**	6	Ed. 60g—Teaching of Design	1
Ed. 175—Observation and Participation**	3	Ed. 141—Visual Education	2
Ed. 176—Student Teaching**	4	Eng. 10—Juvenile Literature	2
Elect from general requirements in elementary education	3	P. A. A. 157—Appreciation of the Space Arts	1
		P. W. 102-116—Physical Welfare	1
		Elect from general requirements in elementary education	7

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

Freshman Year		Freshman Year	
	Hours		Hours
Bot. 133—Nature Study	3	Bot. 134—Nature Study	3
C. P.—College Problems	1	Ed. 1—Play and Play Materials	2
Eng. 1 or 3—English Composition	3	Eng. 2 or 4—English Composition	3
H. Ec. 55—Household Arts for the Elem. School or		H. Ec. 55—Household Arts for the Elem. School or	
P. A. A. 3—Fundamentals of Design	2	P. A. A. 3—Fundamentals of Design	2
P. W. 1-9—Physical Welfare	1	P. W. 2-10—Physical Welfare	1
P. W. 22—Personal and Public Health	3	Mus. 2—Music Fundamentals	2
Soc. 1—Social Development	3	Psych. 1—General Psychology	3
Sophomore Year			
Ed. 2—Literature for Early Childhood	3	Dram. A. 15—Voice and Diction	2
Ed. 63a—Teaching of Reading	2	Geog. 150—Geography and Environment*	3
Ed. 101—Activities for Early Childhood	3	Ed. 166k—Teaching of Music	2
Ed. 167p—Teaching of Physical Welfare or		Ed. 167p—Teaching of Physical Welfare* or	
Ind. A. 122—Elem. Industrial Arts	1	Ind. A. 122—Elem. Industrial Arts*	1
Hist. 1—Survey of Eur. Civilization	3	Hist. 2—Survey of Eur. Civilization*	3
P. W. 101-115—Physical Welfare	1	Phys. 1—The Physical World*	3
Psych. 3—Child Psychology	3	Soc. 107—Educational Sociology*	2
Junior Year			
Ed. 111—Elementary Education**	6	Ed. 60c—Teaching of Design	1
Ed. 171—Observation and Participation**	3	Ed. 141—Visual Education	2
Ed. 172—Student Teaching**	4	Ed. 173—Student Teaching	2
Eng. 111 or 112—The Chief American Writers	3	Eng. 111 or 112—The Chief American Writers	3
Mus.—Piano (Not required for primary teachers)	1	Mus.—Piano (Not required for primary teachers)	1
		P. A. A. 157—Appreciation of the Space Arts	1
		P. W. 102-116—Physical Welfare	1
		Elect from general requirements in elementary education	2

*Should be deferred until the junior year if a temporary certificate is desired at the close of the sophomore year.

**Should be taken during the second semester of the sophomore year if a temporary certificate is desired at the close of the sophomore year.

STUDENT TEACHING AND OBSERVATION AND PARTICIPATION

The College of Education specifies 3 semester hours of observation and participation and from 4 to 10 semester hours of student teaching in the requirements outlined for the degree of Bachelor of Science in Education and for the three-year diplomas. Student teaching credit may be transferred from accredited colleges, but will not fully satisfy the requirements. In no case shall fewer than 2 or 3 semester hours of student teaching in the training schools of the university satisfy this requirement.

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

TRAINING SCHOOLS

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

A unit of the University Elementary School is equipped for practice in Special Education. A group of from twelve to sixteen children is carefully selected from the schools of Athens. Opportunity is afforded for individual diagnosis of problem children.

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

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

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

PREREQUISITES FOR STUDENT TEACHING

Prerequisites for all types of student teaching:

1. A student must have at least B (2.0) average in Eng. 1-2 or Eng. 3-4, a B grade in Eng. 2 or Eng. 4, or C (1.0) average if the student shows superior qualities in oral English. A transfer student who has completed the equivalent of Eng. 4 with a grade of C or below will be given a proficiency examination.

A student enrolled in Eng. 2 or Eng. 4 must also have a satisfactory

grade in oral English. The grade may or may not be the same as for Eng. 2 or Eng. 4. The report on oral English is made to the dean of the College of Education.

When the above standards have not been met satisfactorily, the student must take a written proficiency test in English.

2. A student must meet standards required in speech as evidenced by his ability to pass a speech test. A fee of \$1 is charged for such a test when a mechanical recording is necessary.

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

3. In general, a student must meet the standard prescribed by the State Department of Education on the college ability test given at the time of admission to the university. This standard is based on Sec. 7659 of the Ohio statutes. Exception to this standard is made only in case of high scholarship and unusually favorable personality traits.

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

Additional prerequisites for student teaching in the elementary schools:

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

Additional prerequisites for student teaching in special subjects and in high school academic subjects:

1. Completion of 90 semester hours of the outlined course with at least as many points as semester hours attempted.**
2. Completion of subject matter, at least to the extent represented by the state requirements for a teaching minor, in the subject or field in which the teaching is to be done. These requirements are found on page 52. The scholastic record in the subject must include at least as many points as semester hours attempted.**
3. Completion of the following courses in education with at least as many points as semester hours attempted:**

Psych. 5 Educational Psychology (3)

Ed. 130 Principles of Secondary Education (3)

Ed. Teaching Techniques (in subject to be taught) (2)

4. Completion of the following courses in education with at least as many points as semester hours attempted** either before student teaching is begun or during the semester in which the teaching is done:

Ed. 180 Observation and Participation in High School, Academic Subjects or

Ed. 182 Observation and Participation in Special Subjects (3)

Ed. 131 Educational Tests and Measurements* (2)

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

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

THE COLLEGE OF COMMERCE

Consistent with its character and history as a pioneer educational institution, Ohio University inaugurated courses in accounting and secretarial studies in 1893 at a time when few colleges and universities offered instruction in commerce. As the conception of training for business life broadened, the curricula in commerce were steadily expanded until today they include the fields of accounting, advertising, banking, business law, economics, finance, labor, management, marketing, public utilities, statistics, and taxation. As a result, the College of Commerce offers a comprehensive program of courses in business and economics leading to the degree of Bachelor of Science in Commerce. The college also includes the Department of Secretarial Studies which offers a curriculum leading to the degree of Bachelor of Science in Secretarial Studies, and the School of Journalism which offers theoretical and practice courses leading to the degree of Bachelor of Science in Journalism.

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

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

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

Freshman Year			
The University College program should include the following:			
First Semester	Hours	Second Semester	Hours
Acct. 75—Elementary Accounting or		Acct. 76—Elementary Accounting or	
Bus. Mgt. 15—Introd. to Business Mgt.---	3	Ec. 15—Economic Resources and	
Soc. 1—Social Development* -----	3	Industries of the World-----	3
		Ec. 1—Economic Development* -----	3

*May be taken either semester.

Sophomore Year

First Semester	Hours	Second Semester	Hours
Acct. 75—Elementary Accounting -----	3	Acct. 76—Elementary Accounting -----	3
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
Fin. 101—Money and Credit* -----	3	Fin. 121—Business Finance* -----	3
P. W. 101—Sports or		P. W. 102—Sports or	
Mil. Sc. 101—Basic Infantry -----	1	Mil. Sc. 102—Basic Infantry -----	1
Sec. St. 120—Business Letter Writing-----	3	Eng.—Elective* -----	2-3
Electives -----	3	Electives -----	3
	<u>16</u>		<u>15-16</u>

Junior Year

Bus. L. 155—Business Law -----	3	Bus. L. 156—Business Law -----	3
Bus. Mgt. 211—Industrial Management*--	3**	†Advt. 155—Advertising Principles* -----	3
Mkt. 155—Marketing Principles* -----	3	Ec.—Elective* -----	2-3
Stat. 155—Business Statistics -----	3	Stat. 156—Business Statistics -----	3
Electives -----	4	Electives -----	4
	<u>16</u>		<u>15-16</u>

Senior Year

Bus. L. 175—Government and Business*--	2	Phil. 111—Business and Professional	
Electives -----	14	Ethics* -----	2
	<u>16</u>	Electives -----	14
			<u>16</u>

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING. Recognizing the need and the increasing demand for executives in industry to have a knowledge of and training in economics and business management, the College of Commerce cooperates with the College of Applied Science in offering a curriculum in industrial engineering which is given in outline form in the College of Applied Science. Two definite fields of major study, management and marketing, are open to students in this curriculum.

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

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

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

*May be taken either semester.

**Ec. 212 may be substituted.

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

Freshman Year

The University College program should include:

First Semester		Second Semester	
	Hours		Hours
Soc. 1—Social Development*	3	Ec. 1—Economic Development*	3
Bus. Mgt. 15—Introd. to Business Mgt.,		Ec. 15—Economic Resources and	
Sec. St. 15—Typewriting or		Industries of the World	3
Sec. St. 31—Shorthand	2-3	Sec. St. 16—Typewriting or	
		Sec. St. 32—Shorthand	2-3

Sophomore Year

Acct. 101—Secretarial Accounting	3	Acct. 102—Secretarial Accounting	3
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
P. W. 101—Sports or		P. W. 102—Sports or	
Mil. Sc. 101—Basic Infantry	1	Mil. Sc. 102—Basic Infantry	1
Sec. St. 15—Typewriting	2	Sec. St. 16—Typewriting	2
Sec. St. 31—Shorthand	3	Sec. St. 32—Shorthand	3
Sec. St. 120—Business Letter Writing	3	Eng.—Elective	2-3
Electives	2	Electives	2
	17		16-17

Junior Year

Mkt. 155—Marketing Principles**	3	†Advt. 155—Advertising Principles**	3
Psych. 1—General Psychology	3	Psych. 220—Psychology of Personnel	2
Sec. St. 151—Dictation and Transcription	5	Sec. St. 185—Office Management	2
Sec. St. 171—Secretarial Theory	2	Sec. St. 172—Secretarial Theory	1
Electives	3	Eng.—Elective	2-3
	16	Electives	6
			16-17

Senior Year

Bus. L. 155—Business Law	3	Bus. L. 156—Business Law	3
Fin. 121—Business Finance **	3	Fin. 101—Money and Credit**	3
Sec. St. 111—Typewriting	2	Sec. St. 152—Dictation and Transcription	5
Sec. St. 175—Secretarial Practice	4	Electives	5
Electives	4		
	16		16

Commercial Teacher Training. Training to prepare students for the teaching of commercial subjects in high school is offered by the College of Commerce in cooperation with the College of Education. The curricula for these fields, which include general business education, bookkeeping-social business, stenography-typing, salesmanship-merchandising are outlined on page 67. These majors are planned according to the revised regulations for State certification in commercial subjects, effective March, 1939.

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

*May be taken either semester.

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

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

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

The School of Journalism offers the following curricula sequences which allow for specialization in certain fields of journalism. The requirements are made up of the University College program, the general curriculum sequences under each year, and the additional courses in one of the given fields. The courses within the curricula may be varied to meet the needs of students who have special interests which they would like to pursue.

Freshman Year

The University College program should include:

	Hours		Hours
Bus. Mgt. 15—Intro. to Business Mgt. or		Mus. 5—Music Appreciation	1
Sec. St. 15—Typewriting*	3-2	P. A. A. 7—Intro. to Fine Arts	1
French, German, Spanish, and Italian**	6-8	Psych. 1—General Psychology	3
Hist. 1, 2—Survey of Eur. Civilization	6	Zool. 3-4—General Zoology**	6

Sophomore Year

General curriculum sequences: Ec. 101-102; Jour. 103, 105, 107; P. W. 101-102 or Mil. Sc. 101-102

Additional courses for the sophomore year:

Business Management: Acct. 75-76 or 81; Advt. 155; Mkt. 155, 171
 General Writing and Editing: Govt. 101; Ind. A. 145; Jour. 172; Soc. 101
 Magazine and Feature Writing: Eng. 101, 102, 150; Soc. 101
 Newspaper Advertising: Acct. 75-76 or 81; Ind. A. 145; Mkt. 155, 171

Junior and Senior Years

General curriculum sequences: Jour. 151-152, 206, 208

Additional courses for junior year:

Business Management: Bus. L. 155-156; Ind. A. 145; Jour. 175, 243
 General Writing and Editing: Jour. 111, 117, 222; P. A. A. 77
 Magazine and Feature Writing: Dram. A. 103; Eng. 143, 175, 224, 234; Jour. 111, 130, 222; P. A. A. 77
 Newspaper Advertising: Advt. 155, 186, 232; Jour. 175, 243; Mkt. 201; P. A. A. 147; Psych. 6

Additional courses for senior year:

Business Management: Bus. L. 211; Bus. Mgt. 271; Ec. 212; Jour. 173, 177, 247; Mkt. 201
 General Writing and Editing: Jour. 112, 121-122, 207, 225
 Magazine and Feature Writing: Eng. 236, 254; Jour. 112, 134, 223, 225
 Newspaper Advertising: Advt. 281; Jour. 177, 247; Mkt. 205, 281

*Not required if student can use a typewriter proficiently.

**If a course in foreign language or science is required or desired, the course should be selected from those listed. Foreign languages are listed in the order generally considered the most valuable for journalism students.

THE COLLEGE OF APPLIED SCIENCE

The College of Applied Science endeavors to give the student a thorough training in the fundamental sciences in his elected field and to supplement these fundamentals with studies showing the basic application of the sciences to various industries and occupations. The curricula are arranged so that a student may enter the fields of consultation, development, operation, management, or marketing and are designed to train the student so that he may have a choice of more than one position. In certain curricula, options afford a degree of specialization to those students who definitely elect a more limited profession; however, true specialization only begins after the graduate enters his professional career.

The College of Applied Science which is composed of the Departments of Agriculture, Civil Engineering, Electrical Engineering, and Industrial Arts, and of the School of Home Economics offers curricula in the fields of agriculture, engineering, and home economics leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Architectural Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Industrial Engineering, and Bachelor of Science in Home Economics.

The general requirements for admission are given on page 25. However, students who intend to follow one of the engineering curricula should present credit in physics, chemistry, algebra, and plane geometry. The student may take the above courses in the University College, but since the courses in physics and engineering require a knowledge of science and mathematics, more rapid progress in the outlined curricula can be made if these subjects are taken in high school.

All students fulfill the general graduation requirements of the university. Students electing the curriculum leading to the degree of Bachelor of Science in Agriculture or Bachelor of Science in Home Economics fulfill the requirements of the degree by taking the courses outlined and securing a minimum of 124 semester hours with 124 scholastic points. Students electing a curriculum leading to the degree of Bachelor of Science in Engineering in the specified field fulfill the requirements of the degree by taking the courses outlined and securing 140 semester hours with 140 scholastic points. The total number of semester hours and scholastic points specified includes the requirements of the University College, 4 semester hours of physical welfare or military science, and the curriculum outlined by the College of Applied Science.

Students Who Desire to Teach. Students who desire to teach agriculture, industrial arts, or home economics may enroll for the degree of Bachelor of Science in Education offered by the College of Education. However, students who enroll in the College of Applied Science and complete the requirements for the degree of Bachelor of Science in Agriculture or Bachelor of Science in Home Economics may secure a teaching certificate by satisfying the education requirements specified by the College of Education and the Department of Education of the state in which the student desires to teach.

See Courses of Instruction for the major requirements in agriculture and industrial arts.

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

The University College program should include:			
Freshman Year		Freshman Year	
First Semester	Hours	Second Semester	Hours
Bot. 1—Freshman Botany	3	Agr. 1—General Agriculture	3
Math. 5—Freshman Mathematics	5	Math. 6—Freshman Mathematics	5
Phys. 5—Introduction to Physics	4	Phys. 6—Introduction to Physics	4
Sophomore Year			
Agr. 3—Forestry	2	Agr. 4—Forestry	2
Agr. 111—Rural Economics	3	Agr. 102—Vegetable Gardening	3
Agr. 121—Types and Breeds of Farm Animals	3	Agr. 127—Types, Breeds and Manage- ment of Poultry	3
Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
Ind. A. 1—Elementary Woodworking or Mkt. 155—Marketing Principles	3	Zool. 3—General Zoology	3
P. W. 101—Sports or Mil. Sc. 101—Basic Infantry	1	P. W. 102—Sports or Mil. Sc. 102—Basic Infantry	1
	16		16
Junior Year			
Agr. 103—Fruit Growing	3	Agr. 104—Small Fruits	3
Agr. 121—Floriculture and Greenhouse Management or Mkt. 191—Coöperative Marketing	2	Agr. 135—Farm Management	3
Agr. 143—Genetics	3	Agr. 144—Genetics	3
Zool. 141—Elementary Bacteriology	3	Zool. 119—General Entomology	4
Elective—As approved	4	Elective—As approved	2
	15		15
Senior Year			
Agr. 115—Soils and Fertilizers	3	Agr. 116—Field Crops	3
Agr. 124—General Dairying	3	Agr. 109—Ornamental Horticulture	3
Agr. 226—Forest Survey	3	Bot. 205—Plant Physiology or Bot. 221—Plant Pathology	3
Electives—As approved	6	Electives—As approved	6
	15		15

CURRICULA IN ENGINEERING

Freshman students who intend to select a curriculum in engineering should make their intention known when they register in order that subjects prerequisite to courses required in the curriculum may be included in the University College program. The student should register for the following:

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

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING. The curriculum for this degree is designed to combine the essentials of architectural design and civil engineering. The student who completes the course is prepared to

engage in architectural work either in residence design or architectural engineering.

Freshman Year

See courses given in first paragraph of Curricula in Engineering.

Sophomore Year

First Semester	Hours	Second Semester	Hours
C. E. 105—Descriptive Geometry -----	3	C. E. 74—Engineering Instruments -----	1
C. E. 107—Perspective Drawing -----	1	C. E. 110—Plane Surveying -----	3
Math. 117—Differential Calculus -----	4	Math. 118—Integral Calculus -----	4
P. A. A. 21—History of Space Arts -----	3	P. A. A. 22—History of Space Arts -----	3
P. A. A. 45—Methods in Representation --	2	P. A. A. 104—Elementary Architectural Design -----	2
Phys. 113—General Physics -----	4	Phys. 114—General Physics -----	4
P. W. 101—Sports or		P. W. 102—Sports or	
Mil. Sc. 101—Basic Infantry -----	1	Mil. Sc. 102—Basic Infantry -----	1
	<hr/>		<hr/>
	18		18

Junior Year

C. E. 121—Applied Mechanics -----	3	Dram. A. 3—Public Speaking -----	2
C. E. 123—Materials of Construction -----	2	C. E. 124—Strength of Materials -----	3
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
E. E. 133—Illuminating Engineering -----	2	C. E. 126—Testing Laboratory -----	1
Acct. 81—Accounting Survey -----	2	C. E. 138—Stresses in Structures -----	3
P. A. A. 155—Intermediate Archi- tectural Design -----	3	P. A. A. 156—Intermediate Archi- tectural Design -----	3
Elective -----	3	Elective -----	3
	<hr/>		<hr/>
	18		18

Senior Year

C. E. 127—Testing Laboratory -----	1	C. E. 134—Structural Design -----	2
C. E. 135—Reinforced Concrete -----	4	C. E. 136—Masonry -----	3
C. E. 129—Structural Design -----	3	C. E. 276—Contracts and Specifications --	2
C. E. 227—Adv. Structural Analysis -----	3	Eng. 114—Engineering English -----	2
P. A. A. 255—Adv. Architectural Design --	5	P. A. A. 256—Adv. Architectural Design --	5
Elective -----	3	Elective -----	4
	<hr/>		<hr/>
	19		18

Suggested Electives:

C. E. 141—Hydraulics -----	4	C. E. 142—Water Supply and Sewerage --	3
E. E. 125—Acoustics -----	3	C. E. 228—Advanced Structural Analysis --	2
F. E. 127—Electrical Engineering -----	3	C. E. 278—Engineering Economy -----	3
E. E. 229—Engineering Thermodynamics --	3	E. E. 230—Heat Power Engineering -----	3

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

Freshman Year

See courses given in first paragraph of Curricula in Engineering.

Sophomore Year

C. E. 74—Engineering Instruments -----	1	C. E. 105—Descriptive Geometry -----	3
Dram. A. 3—Public Speaking -----	2	C. E. 110—Plane Surveying -----	3
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
Geol. 125—Physical Geology -----	3		
Math. 117—Differential Calculus -----	4	Math. 118—Integral Calculus -----	4
Phys. 113—General Physics -----	4	Phys. 114—General Physics -----	4
P. W. 101—Sports or		P. W. 102—Sports or	
Mil. Sc. 101—Basic Infantry -----	1	Mil. Sc. 102—Basic Infantry -----	1
	<hr/>		<hr/>
	18		18

Junior Year			
First Semester	Hours	Second Semester	Hours
Acct. 81—Accounting Survey	2	C. E. 124—Strength of Materials.....	3
C. E. 111—Route Surveying	2	C. E. 126—Testing Laboratory	1
C. E. 121—Applied Mechanics (Statics) ..	3	C. E. 130—Stresses in Structures.....	5
C. E. 125—Engineering Problems	3	C. E. 132—Graphic Statics	1
C. F. 151—Route Engineering	3	C. E. 152—Highway Engineering	3
E. E. 127—Electrical Engineering	3	E. E. 202—Applied Mechanics (Dynamics)	2
Elective	3	Elective	3
	19		18

Senior Year			
C. E. 113—Topographic Surveying	2	Eng. 114—Engineering English	2
C. E. 133—Structural Design	5	C. E. 134—Structural Design	2
C. E. 135—Reinforced Concrete	4	C. E. 136—Masonry	3
C. E. 127—Testing Laboratory	1	C. E. 142—Water Supply and Sewerage..	3
C. E. 141—Hydraulics	4	C. E. 276—Contracts and Specifications..	2
Elective	2	C. E. 278—Engineering Economy	3
	18	C. E. 291—Studies in Civil Engineering..	1
		Elective	2-3
			18-19

Suggested Electives:

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

Sanitary Engineering Option

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

Structural Engineering Option

C. E. 227—Adv. Structural Analysis	3	C. E. 228—Adv. Structural Analysis	2
Math. 215—Differential Equations	3	E. E. 202—Applied Mechanics (Dynamics)	2
		Math. 204—Adv. Calculus	3

Transportation Engineering Option

Ec. 205—Transportation	3	Ec. 206—Transportation Problems	2
Ec. 215—Public Finance	2		

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING. It is the aim of the Department of Electrical Engineering to provide the background of general information and basic knowledge of principles which enable the student to analyze situations and to think intelligently and effectively in the field. The curriculum to be pursued has grown out of the belief that these are the most essential foundation elements for the various specialized fields, as well as for early advancement in practical electrical engineering.

Freshman Year

See courses given in first paragraph of Curricula in Engineering.

Sophomore Year

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

Junior Year

First Semester		Second Semester	
	Hours		Hours
C. E. 121—Applied Mechanics	3	C. E. 124—Strength of Materials	3
E. E. 143—Electrical Engineering	4	E. E. 144—Electrical Engineering	4
E. E. 145—Dynamo and Measurements Laboratory	3	E. E. 146—Dynamo and Measurements Laboratory	3
E. E. 149—Electrical Measurements Theory	2	E. E. 150—Electrical Measurements Theory	2
E. E. 229—Engineering Thermodynamics*	3	E. E. 230—Heat Power Engineering*	3
Math. 215—Differential Equations	3	E. E. 202—Applied Mechanics (Dynamics)	2
		Elective	1
	18		18

Senior Year

E. E. 203—Communication Engineering and Adv. Circuit Analysis	4	E. E. 204—Communication Engineering and Adv. Circuit Analysis	4
E. E. 243—Electrical Engineering	4	E. E. 244—Electrical Engineering	4
E. E. 245—Electrical Engineering Lab.	2	E. E. 246—Electrical Engineering Lab.	2
E. E. 291—Studies in Electrical Engineering	1	E. E. 292—Studies in Electrical Engineering	1
E. E. 137—Electron Tubes in Industry or		E. E. 248—Electrical Designs*	3
E. E. 235—Electrical Transmission of Power	3	Eng. 114—Engineering English	2
Elective	4-5	Elective	2-3
	18-19		18-19

Suggested Electives:

C. E. 141—Hydraulics	4	Ec. 210—Public Utility Problems	2
Ec. 209—Public Utilities	3	C. E. 126—Testing Laboratory	1
E. E. 101—Principles of Radio	3	C. E. 276—Contracts and Specifications	2
E. E. 125—Acoustics	3	C. E. 278—Engineering Economy	3
E. E. 133—Illuminating Engineering	2	E. E. 106—Commercial Radio	2
E. E. 211—Advanced Radio Laboratory	2	E. E. 232—Heat Power Laboratory	1
Phys. 225—Adv. Physics Laboratory	2-4	Math. 204—Advanced Calculus	3
		Phys. 226—Adv. Physics Laboratory	2-4

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING. Modern trends have demanded that the executives of industry be versed in the fundamentals of science as well as in the fundamentals of management. Industry now expects its administrators to be able to understand readily the problems of developing, installing, and maintaining the company's products, so that competition can be intelligently met and the business can be expanded. The application of engineering methods to business administration leads toward rapid and unbiased solutions of management and personnel problems and to economics in production.

To supply the demand for men capable of being developed into engineering executives, the College of Applied Science and the College of Commerce have cooperated in offering the curriculum in Industrial Engineering with options in management and marketing. The student, however, may elect other options, with the approval of the dean, which consider the fundamentals of advertising, accounting, law, or finance, or other subjects in the College of Fine Arts and the College of Arts and Sciences.

Freshman Year

See courses given in first paragraph of Curricula in Engineering.

Sophomore Year

C. E. 105—Descriptive Geometry	3	C. E. 74—Engineering Instruments	1
Dram. A. 3—Public Speaking	2	C. E. 110—Plane Surveying	3
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Ind. A. 121—Pattern Making, Forge, and Foundry	2	Ind. A. 126—Shop Engineering	2
Math. 117—Differential Calculus	4	Math. 118—Integral Calculus	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
P. W. 101—Sports or		P. W. 102—Sports or	
Mil. Sc. 101—Basic Infantry	1	Mil. Sc. 102—Basic Infantry	1
	19		19

*or electives.

Junior Year			
First Semester	Hours	Second Semester	Hours
Acct. 75—Elementary Accounting -----	3	Acct. 76—Elementary Accounting -----	3
C. E. 121—Applied Mechanics (Statics)---	3	C. E. 124—Strength of Materials -----	3
C. E. 123—Materials of Construction -----	2	C. E. 126—Testing Laboratory -----	1
E. E. 101—Principles of Radio-----	3	Ec. 235—Labor Relations -----	3
E. E. 127—Electrical Engineering -----	3	E. E. 202—Applied Mechanics (Dynamics) --	2
Mkt. 155—Marketing Principles -----	3	Eng. 114—Engineering English -----	2
Fin. 121—Business Finance -----	3		
	20		14
Senior Year			
Ec. 212—Administration of Personnel-----	3	Bus. Mgt. 211—Industrial Management --	3
E. E. 137—Electron Tubes in Industry---	3	E. E. 230—Heat Power Engineering -----	3
E. E. 229—Engineering Thermodynamics---	3	Mkt. 226—Industrial Purchasing and	
Bus. L. 155—Business Law -----	3	Industrial Marketing -----	3
Stat. 155—Business Statistics -----	3	Stat. 156—Business Statistics -----	3
Electives -----	2-4	Electives -----	5-7
	17-19		17-19
Management Option			
Acct. 125—Intermediate Accounting -----	3	Acct. 224—Standard Costs and Budgets---	3
Acct. 175—Cost Accounting -----	3	Bus. L. 175—Government and Business---	2
Stat. 172—Control of Business Operations	2	C. E. 278—Engineering Economy -----	3
		Ec. 238—Labor Legislation -----	3
Marketing Option			
Advt. 155—Advertising Principles -----	3	Bus. L. 175—Government and Business---	2
Bus. L. 205—Law of Marketing -----	2	H. Ec. 256—Economics of Consumption---	3
Stat. 241—Business Cycles -----	3	Mkt. 158—Marketing Problems -----	3
		Mkt. 171—Principles of Personal Selling--	2
		Mkt. 176—Sales Management -----	3

BACHELOR OF SCIENCE IN HOME ECONOMICS. The School of Home Economics attempts to integrate art and science for the improvement of home and family life and to provide the means of economic independence in occupations related to activities of the home. The home economics curricula are planned: (1) To develop an appreciation and understanding of the activities and the relationships of family life. (2) To equip women for the efficient and successful administration of a home. The Home Management House offers opportunity for practical managerial experience in home making and for observation in the nursery school which is conducted for the children of the community. (3) To afford training in vocations such as the directing of food service in hospitals, hotels, tea rooms, cafeterias, or college residence halls; the planning and directing of commercial food work, experimental cookery, and food research; the supervision of children in nursery schools, institutions, and social welfare organizations; the writing and editing of material for women's magazines; the designing, buying, advertising, and retailing of clothing and home furnishings. Students have opportunity for practical participation in the local industries, welfare agencies, food units of the college residence halls, and school cafeterias. (4) To provide training in home economics for those who wish to teach in elementary schools, junior or senior high schools, vocational schools, and adult education classes. In addition to student teaching and observation in the Athens High School and The Plains High School, seniors in home economics may participate in the other activities of the vocational education program of the schools and qualify for certification to teach in vocational schools.

The following curricula include the home economics and supplementary courses required of students qualifying for the degree of Bachelor of Science in Home Economics in the general or in a specialized field. The general

curriculum in home economics requires the student to take 5 or 6 semester hours of home economics in the freshman year, 11 or 12 in the sophomore year, 10 or 11 in the junior year, and 12 in the senior year. The total should be at least 40 semester hours.

Freshman Year

First Semester	Hours	Second Semester	Hours
Chem. 1—General Chemistry or*		Chem. 2—General Chemistry or	
Zool. 3—General Zoology -----	3-4	Zool. 4—General Zoology -----	3-4
Eng. 1 or 3—English Composition -----	3	Eng. 2 or 4—English Composition -----	3
H. Ec. 1—Clothing Selection and Construction (3),		H. Ec. 1—Clothing Selection and Construction (3),	
H. Ec. 21—Foods and Nutrition (3), or		H. Ec. 21—Foods and Nutrition (3), or	
H. Ec. 51—Orientation in Home Economics (2) -----	2-3	H. Ec. 51—Orientation in Home Economics (2) -----	2-3
P. W. 1-9—Physical Welfare -----	1	P. W. 2-10—Physical Welfare -----	1
Soc. 1—Social Development -----	3	Ec. 1—Economic Development -----	3
Electives** -----	2-4	Electives** -----	2-4
	16		16

Sophomore Year

H. Ec. 1—Clothing Selection and Construction (3),		H. Ec. 105—Household Equipment,	
H. Ec. 21—Foods and Nutrition (3), or		H. Ec. 110—Textiles, or	
H. Ec. 51—Orientation in Home Economics (2)† -----	2-3	H. Ec. 131—Home Planning -----	6
H. Ec. 105—Household Equipment,		P. A. A. 102—Applied Design -----	3
H. Ec. 110—Textiles, or		P. W. 102-110—Physical Welfare -----	1
H. Ec. 131—Home Planning -----	3	Electives -----	6
P. A. A. 101—Design and Composition -----	2		16
P. W. 101-109—Physical Welfare -----	1		
Psych. 1—General Psychology -----	3		
Electives -----	4-5		
	16		

Junior Year

H. Ec. 271—Child Development -----	2	H. Ec. 272—Child Development -----	2
H. Ec. 251—Home Management (2) and		H. Ec. 251—Home Management (2) and	
H. Ec. 253—Home Management Laboratory (2), or		H. Ec. 253—Home Management Laboratory (2), or	
H. Ec. 227—Quantity Cookery (3) -----	3-4	H. Ec. 227—Quantity Cookery (3) -----	3-4
Zool. 141—Elementary Bacteriology -----	3	Electives -----	9-10
Electives -----	6-7		15
	15		

Senior Year

H. Ec. 256—Economics of Consumption or		H. Ec. 256—Economics of Consumption or	
H. Ec. 273—Family Relationships -----	3	H. Ec. 273—Family Relationships -----	3
H. Ec. 225—Dietetics or		H. Ec. 225—Dietetics or	
H. Ec. 216—Clothing Design and Construction -----	3	H. Ec. 216—Clothing Design and Construction -----	3
Electives -----	9	Electives -----	9
	15		15

Options: Home Economics and Commerce—select 12 semester hours in the College of Commerce.

Home Economics and Education—see requirements for certification on page--

Home Economics and Journalism—select 12 semester hours in the School of Journalism.

Home Economics and Social Welfare—select 16 semester hours in the Department of Sociology.

*Students who have had chemistry in high school elect Zool. 3-4.

**Determined by the University College requirements.

†Select course not taken in the freshman year.

Curriculum for specialization in family relationships and child development:

		Hours			Hours
H. Ec.	1—Clothing Selection and Construction	3	H. Ec. 225—Dietetics	3	
H. Ec.	21—Foods and Nutrition or		H. Ec. 241—Nutrition Work with Children	2	
H. Ec.	22—Economics of Foods	3	H. Ec. 251—Home Management	2	
H. Ec.	51—Orientation Course in Home Economics	2	H. Ec. 253—Home Management Lab.	2	
H. Ec.	105—Household Equipment	3	H. Ec. 256—Economics of Consumption	3	
H. Ec.	200—Problems in Home Economics	3	H. Ec. 271, 272—Child Development	4	
			H. Ec. 273—Family Relationships	3	
Supplementary courses:					
Chem.—Elective		8	Soc.—Elective	3	
Dram. A. 15—Voice and Diction		2	Zool. 3-4—General Zoology	6	
Ec.—Elective		3	Zool. 141—Elementary Bacteriology	3	
Psych. 3—Child Psychology		3			

Options: Supervision of Children in Institutions—Ed. 1, 2, 101, 171, 172.
Child Welfare—Soc. 208, 212, 222, 224, 239, 240.

Curriculum for specialization in foods and nutrition:

H. Ec.	21—Foods and Nutrition	3	H. Ec. 228—Recent Developments in Foods and Nutrition or		
H. Ec.	22—Economics of Foods	3	H. Ec. 200—Problems in Home Economics	3	
H. Ec.	51—Orientation Course	2	H. Ec. 251—Home Management	2	
H. Ec.	110—Textiles	3	H. Ec. 253—Home Management Lab.	2	
H. Ec.	222—Experimental Cookery	3	H. Ec. 256—Economics of Consumption	3	
H. Ec.	225—Dietetics	3	H. Ec. 271, 272—Child Development	4	
H. Ec.	227—Quantity Cookery	3			
H. Ec.	229—Nutrition in Disease or				
H. Ec.	241—Nutrition Work with Children	2			

Supplementary courses:

Chem.—Electives	8	Soc.—Elective	3
Dram. A. 15—Voice and Diction	2	Zool. 3-4—General Zoology	6
Ec.—Elective	3	Zool. 141—Elementary Bacteriology	3
Psych.—Elective	6		

Options: Institutional Management—6 semester hours in accounting, H. Ec. 242, 248.
Hospital Dietetics—Chem. 105 or 113, 122, H. Ec. 229 or 241, 242, 248.

Curriculum for specialization in house and its equipment:

H. Ec.	1—Clothing Selection and Construction or		H. Ec. 224—Household Engineering	3	
H. Ec.	110—Textiles	3	H. Ec. 238—Housing and Community Welfare	3	
H. Ec.	21—Foods and Nutrition or		H. Ec. 251—Home Management	2	
H. Ec.	22—Economics of Foods	3	H. Ec. 253—Home Management Lab.	2	
H. Ec.	51—Orientation Course	2	H. Ec. 256—Economics of Consumption	3	
H. Ec.	105—Household Equipment	3	H. Ec. 271, 272—Child Development	4	
H. Ec.	131—Home Planning	3	H. Ec. 273—Family Relationships	3	

Supplementary courses:

Chem.—Electives	8	Psych.—Electives	6
Dram. A. 15—Voice and Diction	2	Soc.—Elective	3
Ec.—Elective	3	Zool. 141—Elementary Bacteriology	3
Phys.—Electives	6		

Options: Interior Decoration—C. E. 1-2, P. A. A. 171-172, 213-214.

Curriculum for specialization in textiles and clothing:

H. Ec.	1—Clothing Selection and Construction	3	H. Ec. 216—Clothing Design and Construction	3	
H. Ec.	51—Orientation Course	2	H. Ec. 218—Textile Analysis	3	
H. Ec.	105—Household Equipment	3	H. Ec. 251—Home Management	2	
H. Ec.	110—Textiles	3	H. Ec. 253—Home Management Lab.	2	
H. Ec.	131—Home Planning	3	H. Ec. 256—Economics of Consumption	3	
H. Ec.	211—Economics of Clothing	3			
H. Ec.	212—Creative Textiles Prob.	2-4			
H. Ec.	215—History of Costume and of Textiles	2			

Supplementary courses:

Chem.—Electives	8	P. A. A.—Electives	10
Dram. A. 15—Voice and Diction	2	Psych.—Elective	3
Ec.—Elective	3	Soc.—Elective	3
Hist.—Electives	6	Zool. 141—Elementary Bacteriology	3

Options: Costume Design—P. A. A. 71, 118, 137-138, 219.

THE COLLEGE OF FINE ARTS

The College of Fine Arts comprises the School of Music, the School of Painting and Allied Arts, and the School of Dramatic Art. The degrees offered are the Bachelor of Fine Arts in Music, in Painting and Allied Arts, and in Dramatic Art. The curricula of the three schools in the college are designed to provide for a broad cultural education in the fine arts and for specialized activities in the different fields.

When a major is selected in one of the three schools, the student is required to take a minor of approximately 16 semester hours in each of the other two schools. However, when necessary, the dean or other administrative officer may grant permission for the acceptance of 12 semester hours to satisfy each minor requirement.

Students working toward degrees in other colleges may elect courses in this college or may complete the requirements for a major or a minor in music, painting and allied arts, or in dramatic art.

Candidates for a degree in the College of Fine Arts complete the general graduation requirements which include a minimum of 124 semester hours and 124 scholastic points, and the program of the University College, 4 semester hours of physical welfare or military training, and three years of work under the supervision of the College of Fine Arts comprising approximately 94 semester hours.

BACHELOR OF FINE ARTS IN MUSIC. The School of Music makes provisions for individual study in all branches of vocal and instrumental music with specific courses in basic principles. Opportunities for individual participation in student recitals are provided and also for ensemble experience in groups such as the University Choir, the glee clubs, the quartet, band, and orchestra.

The University College program should include:

	Hours
Applied Music -----	2
Mus. 3-4 — Ear Training and Sight Singing-----	4
Major requirements:	
Applied Music -----	18
Mus. 11-12—Music History -----	4
Mus. 109-110—Ensemble -----	2
Mus. 130—Ensemble Conducting -----	4
Theory, including aural theory-----	28
Minor requirements:	
Dramatic Art -----	12-16
Painting and Allied Arts-----	12-16
Other requirements:	
English, beyond the University College requirement-----	6

School Music Major. Students who desire to specialize in school music are given the opportunity of preparing for general supervision with emphasis on voice and its allied activities such as choral and glee club or on instrumental supervision with emphasis on a major or minor instrument and the

allied activities of orchestra and class instrumental instruction. The specific requirements leading to the degree of Bachelor of Science in Education are given in the College of Education.

BACHELOR OF FINE ARTS IN PAINTING AND ALLIED ARTS. The School of Painting and Allied Arts provides curricula for those interested in either general or specific training. Basic principles in both theory and practice are emphasized.

The major requirements amount to at least 32 semester hours in painting and allied arts. The minor requirements include 12 to 16 semester hours in music and 12 to 16 semester hours in dramatic art.

Major interests in painting and allied arts are possible in architectural design, commercial design, constructive design, costume design, decorative design, history, painting, and photography. Electives permit the completion of requirements for a teaching certificate as stated on page 54 of this catalog.

Major For Other Degrees. A student who desires the degree of Bachelor of Arts or the degree of Bachelor of Science in Education may major or minor in the School of Painting and Allied Arts and receive the degree desired by complying with the requirements of the college that grants the degree. The College of Education has outlined specific requirements for teaching or supervising in both elementary schools and high schools.

BACHELOR OF FINE ARTS IN DRAMATIC ART. The courses offered by the School of Dramatic Art are classified as dramatic production and speech. Students majoring in the School of Dramatic Art emphasize either dramatic production or speech in planning their courses of study. However, efforts are made to adapt the curricula to the needs of the students, and the program of the school aims at flexibility rather than at strict regimentation.

The major requirements amount to at least 32 semester hours in dramatic production or speech or in both. The minor requirements include 12 to 16 semester hours in music and 12 to 16 semester hours in painting and allied arts. The School of Dramatic Art also requires 12 semester hours in English beyond the University College requirement. The University College program should include Dram. A. 1, Speech Survey, and Dram. A. 7, Introduction to the Fine Arts.

Students may fulfill the requirements for the degree of Bachelor of Science in Education with a major in dramatic art and qualify to teach in the elementary school and in the high school. These requirements are specified under the College of Education.

The Speech Clinic. The School of Dramatic Art maintains a Speech Clinic which serves students, faculty, and the public. Consultations concerning all types of speech disorders are granted gratis by the speech division and remedial treatment for cases of a functional nature is given under the direction of a competent speech pathologist.

THE GRADUATE COLLEGE

Degrees. The Graduate College offers work in academic and professional fields and confers the degrees of Master of Arts, Master of Science, Master of Education, and Master of Fine Arts. In addition to the curricula offered in the academic and professional fields, the college offers the degree of Master of Arts or Master of Science in supervision and guidance of student life, a course designed for advisers of girls and deans of women.

Admission. The Graduate College is open to students who hold a bachelor's degree from an accredited college or university. Application for admission should be made on a blank obtainable from the office of the registrar and must be accompanied by an official transcript of the applicant's college record, except in the case of a graduate of Ohio University. These documents should be filed with the registrar at least a month before the opening of the term in which the applicant begins his studies. The student who qualifies for admission receives a permit to register and a copy of his undergraduate record. He then confers with the dean of the Graduate College who counsels with him regarding his plans for graduate study and appoints faculty advisers in the major and minor fields. The student's outline of graduate study is made by the advisers in conference with the student. A student may be registered in the Graduate College without becoming a candidate for a graduate degree. Therefore, admission to the Graduate College does not of itself constitute admission to candidacy for a degree.

A student who is qualified to enter the Graduate College but who pursues courses with no regard to a major or a minor and with no thought of qualifying for a master's degree is classified as a special student.

Credit and Residence. At least 32 semester hours of credit are required for the master's degree. A maximum of 8 semester hours of credit is accepted by transfer from approved institutions which offer the master's degree. Credit for courses taken by correspondence is not accepted toward the degree. A maximum of 6 semester hours taken in extension classes or the Portsmouth Division is accepted toward the degree, provided that the courses are conducted by instructors who regularly teach them on the campus. A graduate student who is employed on full time is limited to three semester hours in a semester or a summer session. Credit is not allowed for a graduate course unless all of the work of the course, including the final examination, is completed and the final grade reported to the office of the registrar within one year after the official ending of the course.

Only work of high quality is accepted for graduate credit. The minimum standard acceptable is an average grade of B with no grade below C, and not more than twenty per cent of the work with a grade of C. This average must be attained within the first 36 semester hours attempted for graduate credit.

After securing a bachelor's degree, an adequately prepared student should 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 three eleven-week summer sessions. A transfer student is required to have a minimum residence at Ohio University of one semester and one eight-week summer session, or three eight-week summer sessions, or at least twenty-four weeks. A student who takes courses for graduate credit in extension classes or the Portsmouth Division is required to have a minimum residence at Ohio University of one semester and an eight-week summer session, or three eight-week summer sessions and a three-week post session, or at least twenty-six weeks.

The maximum time allowed between the date when the student is admitted to the Graduate College and begins graduate study and the date when the requirements for the degree are completed is six years. Students who do not complete their requirements for the degree within the six-year period are obliged to have their graduate outlines reviewed and revised in the light of current catalog requirements.

Courses for Graduate Credit. Credit toward a graduate degree is given for the completion of courses designed for graduate students (numbered 301-399) and courses designed for advanced undergraduates and graduates (numbered 201-299), provided that the courses are included in the student's program of study.

Fees. The fees for graduate students are the same as those for undergraduates. See FEES AND DEPOSITS for a full statement of fees.

Program of Study. The student's program of study is divided between subjects in the major field and subjects in the minor field, unless a program otherwise arranged is approved by the Graduate Council. Since graduate work implies specialization, a minimum of 18 semester hours of undergraduate credit is presupposed before a student can pursue his major subject for graduate credit. Six to 12 semester hours in undergraduate preparation are usually sufficient to begin graduate work for a minor in the subject. The program in the major field varies from 12 to 20 semester hours exclusive of the thesis, for which from 4 to 8 semester hours are allowed. The minor field in such cases makes up the remainder of the 32 semester hours required for the degree, and is selected from one or two fields of instruction closely related to the major field. However, all of the work for the master's degree may be done in one school or field on recommendation of the adviser and with the approval of the Graduate Council.

Admission to Candidacy. In order to be admitted to candidacy for the master's degree, a student must show his ability and fitness to pursue graduate work in his chosen field. This may be done by completing with satisfactory grades a part of the program of graduate study as outlined. The further conditions of admission to candidacy are a program of graduate study and a thesis subject, acceptable to the major adviser and approved by the dean and the Graduate Council. Application for candidacy should be made on a form obtainable at the office of the dean and on a date not later than four months, two months in the summer session, before the degree is to be conferred.

Examination and Thesis. As a partial fulfillment of the requirements for the master's degree, each candidate shall pass creditably two examinations, one oral and one written, and shall submit a satisfactory thesis upon a subject approved by the adviser and the Graduate Council. The written examination is of approximately six hours duration in the subjects of the major and the minor fields. The oral examination, approximately two hours in length, is conducted by a committee, appointed by the dean, consisting of a representative of the Graduate Council and members of the staff of the school or department in which the candidate has done his work.

The candidate prepares his thesis under the direction of his major adviser on a subject in the field of his major work. The thesis provides an opportunity for the student to formulate and express the results of his research and study. The thesis may vary in character from an extended essay representing critical reading, independent study, and the assimilation and interpretation of a considerable body of facts, to an account, sometimes more brief, describing a research project which makes some contribution to knowledge. With the approval of the Graduate Council, the thesis requirement may be met by the presentation of the results of creative research or activity together with a written essay indicating the purpose, procedure, bibliography, and problems involved in the work. For students who desire to avail themselves of the instruction, a course on thesis writing is offered by the Department of English.

After the thesis is approved and not later than five days before commencement, the candidate files three unbound copies of the thesis with the university librarian, in accordance with directions obtained from the office of the dean. After the thesis is bound, two copies are retained in the university library and one copy is presented to the school or department in which the work has been done.

GRADUATE FELLOWSHIPS AND ASSISTANTSHIPS

Ohio University usually requires the services of twelve to twenty graduate teaching fellows and graduate assistants. During the present academic year, twelve students are pursuing graduate work under fellowship appointments and nine, under appointments as graduate assistants. The same number probably will be required in the academic year 1939-1940. Fellows and graduate assistants are selected on a basis of merit from students who have received the baccalaureate degree from approved institutions and who wish to pursue work leading to the master's degree.

A fellowship carries an annual stipend of \$300 with a waiver of the general registration fee. There is no tuition fee. A graduate assistantship carries a stipend of \$300 with no waiver of general registration fee. A teaching fellow is required to give one half of his time to teaching or laboratory supervision, or both, in the department of his major or minor field, and is expected to carry one half of the normal load of graduate work. The graduate assistant is required to give twenty to twenty-four hours of service weekly to the department of his major or minor field and is permitted to carry 8 to 10 semester hours of graduate work.

Graduate teaching fellowships and graduate assistantships are usually available to qualified students in the following fields: botany, chemistry, commerce, dramatic art and speech, education, electrical engineering, English, home economics, industrial arts, mathematics, painting and allied arts, personnel divisions of the office of the dean of men and the office of the dean of women, physical welfare, physics, psychology, romance languages, and zoology.

Application for a graduate teaching fellowship or a graduate assistantship for the academic year 1939-1940 must be filed with the dean of the Graduate College by April 1, 1939. Application blanks are obtained from the office of the dean.

Special Appointments for Women. Two to five positions are open annually for graduate student deans. The appointees receive a stipend of \$300 each, with exemption from the general registration fee, and are expected to give one half of their time assisting the dean of women and to carry one half of the normal load of graduate work. Under this plan two academic years are required to complete the work for the master's degree. Applicants should have completed not fewer than 18 semester hours in the social sciences. Application may be made directly to the dean of women.

Two or three appointments as graduate student dietitians are open annually to college graduates who have majored in home economics. These positions are intended primarily for persons interested in institutional management, but such assistants may major in any field. The stipend consists of board, room, and \$385, with exemption from the general registration fee. The student is expected to give about six hours of service daily and to carry one half of the normal load of graduate work. Application may be made directly to the director of the School of Home Economics.

PHYSICAL WELFARE

The Division of Physical Welfare is organized into two coordinate departments, one for men and one for women. The whole program in physical welfare has been developed with the view of providing health protection and physical activity for the entire student body. The division maintains two gymnasiums and offers facilities, equipment, and guidance for physical expression in sports and hobby classes, rhythmic, swimming, and intramural and intercollegiate athletics. All students registering in the university are given health and physical examinations.

The required two-year program of 4 semester hours of physical activities for men who do not elect military science and tactics includes attendance in a class in hygiene one period a week during the freshman year and participation in at least four sports. The required two-year program of 4 semester hours for women is on an elective basis; the activities offered are grouped under sports, rhythmic, and swimming. Students reporting for the required courses wear the uniform prescribed by the division. Men and women students who for any reason are unable to participate in the regular activity classes are given individual instruction in special classes.

The department offers a recreational hobby program designed to meet the interests and needs of all students, whether they are proficient or inexperienced in sports. Instruction is given regularly to voluntary groups and classes in the activities desired.

Students who wish to major in the Division of Physical Welfare may apply for the degree of Bachelor of Science, the degree of Bachelor of Arts, or the degree of Bachelor of Science in Education by fulfilling the requirements of the college offering the degree. All majors are required to purchase a uniform as prescribed by the department.

The following courses constitute a major in physical welfare:

Men

Freshman Year

The University College program should include the following:

First Semester	Hours	Second Semester	Hours
P. W. 1—Sports	1	P. W. 2—Sports	1
P. W. 22—Personal and Public Health...	3	Zool. 4—General Zoology	3
Zool. 3—General Zoology	3		

Sophomore Year

P. W. 121—Physical Activities	2	P. W. 122—Physical Activities	2
P. W. 125—Scouting	1	P. W. 152—Kinesiology	2
Zool. 115—Elements of Anatomy	3	Ed. 167h—Teaching of Health.....	2

Junior Year

P. W. 123—Physical Activities	1	P. W. 124—Physical Activities	1
P. W. 127—First Aid	2	P. W. 128—Athletic Training	1
P. W. 133—Theory and Practice of Adapted Activities	2	P. W. 153—Nature and Function of Play..	2
Ed. 167f—Coaching of Football.....	2	Ed. 167d—Coaching of Baseball.....	1
		Ed. 167e—Coaching of Basketball	2
		Ed. 167t—Coaching of Track	1

Senior Year

P. W. 171—Physical Activities	1	P. W. 204—Principles of Physical Welfare	2
P. W. 252—School Health Program	3	P. W. 206—Organization and Adminis- tration of Physical Welfare...	2
Zool. 125—Elementary Physiology	4	P. W. 250—Community Recreation	2

Women

Freshman Year

The University College program should include the following:

First Semester		Hours	Second Semester		Hours
P. W. 1, 6 or 7—Physical Welfare	-----	1	P. W. 2, 4 or 8—Physical Welfare	-----	1
P. W. 22—Personal and Public Health	-----	3	Zool. 4—General Zoology	-----	3
Zool. 3—General Zoology	-----	3			

Sophomore Year

P. W. 121—Physical Activities	-----	2	P. W. 122—Physical Activities	-----	2
Zool. 115—Elements of Anatomy	-----	3	P. W. 152—Kinesiology	-----	2
			Ed. 167h—Teaching of Health	-----	2

Junior Year

P. W. 127—First Aid	-----	2	P. W. 132—Physical Welfare Practice	---	1
P. W. 131—Mass Games	-----	1	P. W. 133—Theory of Adapted Activities	---	2
P. W. 252—School Health Program	-----	3	Ed. 167b—Teaching of Coaching	-----	2
Ed. 167a—Teaching of Coaching	-----	2			

Senior Year

P. W. 171—Organization of Physical Activities	-----	2	P. W. 172—Organization of Physical Activities	-----	2
Zool. 125—Elementary Physiology	-----	4	P. W. 204—Principles of Physical Welfare	---	2
			P. W. 206—Organization and Administration of Physical Welfare	---	2
			P. W. 250—Community Recreation	-----	2

The following courses are suggested to meet the 16 semester hour requirement specified by the State Department of Education for a minor in physical education:

Hours

Theory ----- 4

Men and Women

- P. W. 153—Nature and Function of Play (2)
- P. W. 204—Principles of Physical Welfare (2)
- P. W. 205—History of Physical Education (2)
- P. W. 206—Organization and Administration of Physical Welfare (2)

Practice ----- 4

Men

- P. W. 121—Physical Activities (2)
- P. W. 122—Physical Activities (2)
- P. W. 123—Physical Activities (1)
- P. W. 124—Physical Activities (1)
- P. W. 171—Physical Activities (1)

Women

- P. W. 104—Swimming (1)
- P. W. 105—Tap Dance (1)
- P. W. 107-108—Modern Dance (2)
- P. W. 113—Hiking (1)
- P. W. 121, 122—Physical Activities (2-6)
- P. W. 131—Mass Games (1)
- P. W. 132—Physical Welfare Practice (1)
- P. W. 172—Organization of Physical Activities (2)

Coaching ----- 4

Men

- Ed. 167d—Coaching of Baseball (1)
- Ed. 167e—Coaching of Basketball (2)
- Ed. 167f—Coaching of Football (2)
- Ed. 167t—Coaching of Track (1)

Women

- Ed. 167a—Teaching of Coaching (2)
- Ed. 167b—Teaching of Coaching (2)

Health ----- 4

Men and Women

- P. W. 22—Personal and Public Health (3)
- P. W. 252—School Health Program (3)
- Ed. 167h—Teaching of Health (2)

MILITARY SCIENCE AND TACTICS

The Reserve Officers' Training Corps was established under the National Defense Act of June 4, 1920. The Board of Trustees of Ohio University in 1935 entered into an agreement with the Federal government for the establishment of a voluntary R. O. T. C. unit. Under this agreement the university maintains an elective course of military training for men students who are physically qualified.

A student has the choice between two years of military training and the required first and second year courses in the Department of Physical Welfare. Those who complete the four years of military training are eligible, upon graduation, for a commission in the Officers' Reserve Corps of the United States Army. The first two years carry 1 semester hour of credit each semester; and the last two years, 3 semester hours each semester.

Under the terms of the agreement with the Federal government, the two-year course once entered upon becomes a prerequisite for graduation. In an exceptional case and for a sufficient reason a student, upon recommendation of the professor of military science and tactics, may be discharged by the president of the university from the Reserve Officers' Training Corps and from the necessity of completing the course as a prerequisite for graduation.

All necessary training equipment and the principal articles of the uniform are issued to basic course students by the Federal government without cost. Articles so issued remain the property of the government and must be returned. A personal equipment fee of \$6, which is assessed at the beginning of the first semester for the year's course, is required of students enrolling for Mil. Sc. 1, Basic Infantry, to cover cost of essential articles of uniform not issued free. Articles so purchased enable the student to make a substantial saving in the cost of ordinary clothing.

Upon entering the advanced course, the student receives a money allowance for uniform which last year amounted to \$29. Upon entering the second year of the advanced course, he receives a uniform maintenance allowance which last year amounted to \$7. In addition, "commutation of rations" is paid the advanced course student quarterly. Last year this amounted to \$23 each quarter.

In addition to the courses pursued at the university, all students who satisfactorily complete the first year of the advanced course attend the six weeks summer training camp, generally held at Fort Knox, Kentucky, for the Reserve Officers' Training Corps. This attendance involves no expense to the student. On the contrary, he is provided with uniform, equipment, rations, and shelter and is paid for transportation to the camp and return to his home at a rate which last year was five cents a mile. He is also paid seventy cents a day while attending camp. The university allows 3 semester hours of credit for the camp attendance.

After the completion of the second year basic course, applicants for the advanced course, within a quota allotted by the War Department, are carefully selected by the professor of military science and tactics on the basis of military and scholastic merit. A general scholastic average of C (1.0) is required for the selection.

THE PORTSMOUTH DIVISION

Ohio University, in cooperation with the Board of Education of the Portsmouth City School District, offers an evening college program in the city of Portsmouth, Ohio. This program was inaugurated during the fall of 1938-1939 and is designed to meet the needs of recent graduates of high schools in Portsmouth and the vicinity who do not find it possible to go away to college. However, others who are employed part time or full time may also enroll in the classes of this division.

Organization. Classes were organized in the first year so that a freshman could complete at Portsmouth the full freshman year required at Ohio University. Plans have been made to offer a sophomore year as well as a freshman year during 1939-1940. Classes in the Portsmouth Division are organized for a minimum of fifteen students and an average enrollment of twenty-five students. All classes are taught by faculty members of Ohio University.

Admission. The requirements and the procedure for admission to the Portsmouth Division are the same as for admission to the campus classes.

Fees. Students in the Portsmouth Division pay a registration fee of \$5 for each semester hour of credit. Registration fees are payable at the opening of each semester. Auditors pay the same fee as students working for credit.

Students who make changes in their original registration are required to pay a change order fee of \$1.

A fee of \$1 is charged for late registration, with the addition of \$1 for each week late. Registrations are accepted until the third meeting of a class.

Credit. Residence credit is given for undergraduate work completed in the Portsmouth Division subject to the following restrictions:

(1) Sixty-four semester hours of residence credit earned in the Portsmouth Division will be accepted toward a bachelor's degree offered by Ohio University.

(2) When acceptable extension credit and correspondence study credit is offered in combination with credit earned in the Portsmouth Division, not more than 64 semester hours will be accepted toward a degree or a diploma course.

(3) In conformance with the graduation regulations of the university, a student must complete thirty weeks in residence and must earn at least 30 semester hours with 30 scholastic points at Ohio University in Athens. The last work completed for a degree or a diploma must be completed in residence in Ohio University at Athens, Ohio.

The above regulations are made by the university for the Portsmouth Division as a means of determining the residence credit acceptable toward a degree or a diploma course.

THE EXTENSION DIVISION

The Extension Division offers work in the form of extension classes and correspondence study.

Extension Classes. Any community in which a group of persons agrees upon a course which it desires to study will be supplied with an instructor from the university faculty. The size of the group necessary to secure an instructor depends upon the distance of the community from the campus. The university provides the regular instructor of the course or a member of the department in which the course is offered. The instructor meets the class once a week for a class session, the number and length of which is determined by the amount of credit allowed for the course.

Correspondence Study. Correspondence study extends the privilege of university training even more widely than the extension classes. A wide variety of subjects in over thirty departments is offered and is taught by members of the regular faculty. The courses appeal to teachers, business men and women, ministers, social workers, and others who wish to engage in systematic study during their spare time. Registration for a correspondence study course can be made at any time.

Admission. A student who has been enrolled in any division of the university and who is in good standing may register in an extension class or in correspondence study. A student who has not previously enrolled at Ohio University is required to present to the registrar of the university an application for admission and the required credentials. A student who intends to become a candidate for graduation at Ohio University must present a transcript of all work done at other colleges and universities. A student who is not planning to graduate from Ohio University is required to present a statement of good standing, honorable dismissal, or graduation from the last school attended. A person who has never enrolled in any college or university must present a transcript of high school credits. A person who has not completed the minimum entrance requirements but is at least twenty-one years old may enroll for any course for which his preparation qualifies him.

Credit. In extension classes and in correspondence study a student may earn as much as 40 semester hours toward the requirements for a bachelor's degree, or 18 semester hours toward a two-year diploma.

A graduate student may earn, under approved conditions, 6 semester hours of extension class credit to apply toward a master's degree.

Persons who are employed full time are limited to a registration of 6 semester hours each semester.

Recognition. In 1931 Ohio University was admitted to membership in the National University Extension Association. This association is made up of over fifty of the recognized colleges and universities throughout the country which maintain divisions of university extension. The N. U. E. A. is not an accrediting body; it merely promotes standards and recognizes them by strict procedures for the admission of colleges and universities to membership.

Blanks. Applications for admission may be secured from the office of

the registrar or from the Extension Division. Registration blanks for correspondence study may be secured from the office of the Extension Division. Registration blanks for the extension classes are obtained from the instructor of the class.

Persons interested in any of the opportunities offered by the Extension Division may obtain additional information by writing to The Extension Division, Ohio University, Athens, Ohio.

COURSES OF INSTRUCTION

EXPLANATION

The courses of instruction are arranged in numerical order by departments of instruction.

The catalog numbers indicate the student classification for which the course is designed. The numbers are grouped as follows:

- 1- 99 for University College students
- 100-199 for undergraduate students
- 200-299 for advanced undergraduate and graduate students
- 300-399 for graduate students.

An odd number indicates that a course is given in the first semester or in both first and second semesters. An even number indicates that a course is given in the second semester, with the exception of the numbers used for the teaching technique courses.

Two numbers at the beginning of a course indicate a year course. A hyphen between the numbers indicates that the course is a continuous year course, that the first semester is a prerequisite for the second. A comma between the numbers indicates that although the course is a year course the first semester is not a prerequisite for the second semester.

A course that is offered during the summer session only or that is not offered during the school year of 1939-1940 is indicated by a statement in parentheses.

A lecture course with a credit of three semester hours has three lectures or recitations a week for a semester. When a course consists of lecture and laboratory periods, the number of both are indicated.

When a course requires a fee, the amount is stated in the description of the course. The fee is determined by the number of semester hours of credit; \$1 is assessed for each semester hour. For a year course, the fee is stated for a semester.

A prerequisite is usually indicated by the number of the course or the number of semester hours required. When the catalog number or the number of semester hours refers to another department, the department is named.

Credit for a course is indicated by the number in parentheses. In a year course, the number refers to credit for a semester. One semester hour, (1), is the equivalent of one recitation or two or more laboratory periods a week throughout a semester. A course carrying a variable credit (1-4) indicates the minimum and maximum amount of credit allowed for the course. A student may enroll for the course a number of times provided the total registration for the course does not exceed the maximum credit. Exception: In Applied Music the variable credit refers to the amount of credit for which a student may enroll during a semester or summer session. A number in parentheses when used in the curricula and in the major requirements likewise denotes semester hours of credit.

The instructors of a course are arranged according to priority of service within the respective ranks.

COURSES OF INSTRUCTION

ACCOUNTING (See Commerce)

ADVERTISING (See Commerce)

AGRICULTURE

Professors Copeland and Wiggin

The major requirement in agriculture for the A. B. or B. S. degree is a minimum of 36 semester hours distributed as follows: Agr. 1, 3, 4, 102 (6); Agr. 103, 109, 116, 121 (9); Agr. electives, or Chem. 1-2 or 3-4, or Bot. 1, 2 or 101, 102 (3-8); Agr. 104, 127, 135, 141, 142 (9); Agr. 111, 131, 132, 143, 144 (9-10).

1. GENERAL AGRICULTURE. Planned to meet the needs of those preparing to teach agriculture and of those interested in the practical applications of the problems of general agriculture. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

3, 4. FORESTRY. Ways and means of identification and classification of trees and shrubs. A study of vernalion, periods of blooming, and seed germination. Fee, \$2. (2) Copeland.

102. VEGETABLE GARDENING. Classification, description, use, culture, grading, storing, and marketing of vegetable crops. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

103. FRUIT GROWING. (1940-1941) The selection of an orchard location and the study of propagation, planting, fruit-setting, nutrition, thinning; disease and insect control, harvesting, grading, judging, storing, and marketing of tree fruits. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

104. SMALL FRUITS. (1940-1941) A study of fruits commonly grown in Ohio. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

109. ORNAMENTAL HORTICULTURE. The principles of landscape gardening as applied to home grounds and civic improvement, and the culture of ornamental flowers and shrubs. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

111. RURAL ECONOMICS. A study of theories relating to farm problems of wages, rent, labor, land values, farm management, and marketing. (3) Copeland.

115. SOILS AND FERTILIZERS. The origin, types, physical properties, and distribution of soils, and their relation to crop production. Stable manure, green manure, and fertilizers as used in the maintenance of soil fertility. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

116. **FIELD CROPS.** A general course in the principles of plant growth. Emphasis on the use of important cereal grass, forage, and root crops. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

121. **TYPES AND BREEDS OF FARM ANIMALS.** (1940-1941) A study of types and breeds of farm animals: their history, development, breeding, handling, and general management. Principles of judging. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

124. **GENERAL DAIRYING.** (1940-1941) The fundamentals of milk production, handling, marketing, and the manufacture of products made from milk. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

127. **TYPES, BREEDS, AND MANAGEMENT OF POULTRY.** The origin and development of types and breeds, the general care and management of poultry, incubation, and the marketing of poultry products. 2 lec. and 2 lab. Fee, \$3. (3) Wiggin.

131, 132. **FLORICULTURE AND GREENHOUSE MANAGEMENT.** A study of important cut-flower and pot-plant crops grown in greenhouses, the construction and management of greenhouses; flower store management and floral designing. 2 lec. and 2 lab. Fee, \$2. (2) Wiggin.

135. **FARM MANAGEMENT.** The application of problems of rent, wages, labor, land values, marketing, and various phases of farm efficiency. (3) Copeland.

141, 142. **EVOLUTION AND HEREDITY.** A consideration of the prominent theories relating to environment, evolution, and inheritance. (3) Copeland.

143, 144. **GENETICS.** Inheritance, environment, and other factors relating to variations, mutations, and changes leading to the origin of new races and varieties of plants or animals. (3) Copeland.

146. **EUGENICS.** Problems of inheritance and environmental factors that relate to race betterment. (2) Copeland.

168a. **TEACHING OF AGRICULTURE.** (Same as Ed. 168a) A consideration of aims and materials suitable for agricultural instruction in rural, village, and city schools. Use is made of field trips, laboratory, and lectures. Pre-req., 8 hrs. and permission. (3) Copeland.

220. **PLANT GROWTH.** A course in the advanced phases of plant growth dealing with such phenomena as trophism, adaptations, periodicity, physical and chemical responses, and correlations. Fee, \$1 for each credit hour. Pre-req., 1 and 116. (3-5) Wiggin.

222. **AGRICULTURAL PROBLEMS.** Designed to train the student in some important advanced laboratory methods and research problems encountered in the agricultural field with an accompanying survey of available literature. 1 lec. and 4-8 lab. Fee, \$1 for each credit hour. Pre-req., 1 and 116. (3-5) Wiggin.

226. **FOREST SURVEY.** A field-laboratory study of special topics selected from: forest management, forest technic, natural and artificial regeneration

of woodlots, locations and habitats of trees, forests and erosion, forestry, and permanent agriculture. 6-10 lab. Fee, \$1 for each credit hour. Prereq., 3, 4, and 6 hrs. botany, or permission. (3-5) Copeland.

381. RESEARCH IN AGRICULTURE. Problems for investigation confined to conservation of natural resources of the farm, domestication of wild plants, and rural economics. 6-12 lab. or field. Fee, \$1 for each credit hour. Prereq., 1, 3, 4, and 6 hrs. botany, or permission. (3-10) Copeland.

ARCHAEOLOGY AND ANTIQUITIES

101. INTRODUCTION TO ARCHAEOLOGY. The history of the development of archaeology from its earlier stages to its present status of dignity and scientific method. Methods and techniques of archaeology, its aims and purposes, the general types of archaeological work and excavation with emphasis on some of the more important sites. (3) Hill, Johnston, Taylor.

202. THE ARCHAEOLOGY OF THE MEDITERRANEAN AREA. Designed to provide a comprehensive appreciation and understanding of the archaeological activities in this area. The archaeology of Palestine and Egypt, with emphasis on the Minoan (Cretan) and Mycenaean civilization. The archaeology of Greece and the Aegean islands, and to a lesser extent the archaeological remains of the Roman period. Prereq., 12 hrs. foreign language or 12 hrs. history and antiquities. (3) Hill, Taylor.

For additional courses see the following:

- Eng. 143. Comparative Literature
- Geol. 240. Paleontology
- Gk. 55, 56. Contributions of Greek Civilization
- Lat. 229. Development of Roman Culture
- Lat. 231. The Life of the Romans
- P. A. A. 21. History of the Space Arts
- Phil. 201. History of Ancient and Medieval Philosophy
- Soc. 125. Cultural Anthropology

ART

(See Painting and Allied Arts)

ASTRONOMY

(See Mathematics and Astronomy)

ATHLETICS — COACHING

Don C. Peden, Head Coach of Football and Baseball

William J. Trautwein, Head Coach of Basketball

William H. Herbert, Head Coach of Track

Harold E. Wise, Assistant Coach in Football, Basketball, and Baseball

(See Education and Physical Welfare)

BIOLOGY

(See Botany or Zoology)

BOTANY

Professor Matheny; Associate Professor Boetticher;
Instructor Vermillion

The major requirement in botany for the A. B. degree is a minimum of 24 semester hours; for the B. S. degree, 36 semester hours. Bot. 1, 2 or 101, 102 required; the remaining hours may be selected from the following: Bot. 203, 204; 205, 206; 207, 208; 209, 210; 215, 216; 221, 222; 227; 229; 281.

Students who wish to prepare for service in Federal or state conservation projects, or for nature guiding in state, national, or municipal parks, or for technical pursuits in the fields of plant pathology, algology, or botanical research are advised to confer with the chairman of the department and to select from the following courses: Bot. 1, 2 or 101, 102; 203, 204; 205, 206; 207, 208; 215, 216; 221, 222; 227, and 229.

1, 2. **FRESHMAN BOTANY.** A general survey of the field of botany. 2 lec. and 2 lab. Fee, \$3. (3) Boetticher, Vermillion.

101, 102. **GENERAL BOTANY.** A course in systematic botany for advanced students beginning the subject. Not open to those who have credit in Bot. 1, 2. 2 lec. and 2 lab. Fee, \$3. (3) Matheny.

107. **WILD FLOWER IDENTIFICATION.** (Summer session only) A course to familiarize the student with the local flora. Trips are conducted to nearby points of botanical interest. 2 lec. and 2 lab. Fee, \$3. (3) Matheny.

111, 112. **ECONOMIC BOTANY.** A study of the origin, uses, and economic importance of plants and plant products, and the application of botany to modern industrial life. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Vermillion.

131. **THE SCHOOL MUSEUM.** A study of the use, organization, and care of the school museum. Practice in the university museum. (2) Matheny.

133, 134. **NATURE STUDY.** A course in which the student is introduced to a better understanding and appreciation of the living things in nature about him. 2 lec. and 2 lab. Fee, \$3. (3) Boetticher, Matheny, Vermillion.

168b. **TEACHING OF BOTANY.** (Same as Ed. 168b) A review of the various methods now employed, followed by actual practice in field-work, laboratory procedures, and lectures. Prereq., 1 yr. of botany or of zoology. (2) Matheny.

168g. **TEACHING OF GENERAL SCIENCE.** (Same as Ed. 168g) Practice in the construction of general science apparatus, and demonstrations of scientific laws through the utilization of common things near at hand. Also, a review of many science texts now in use. (2) Matheny.

203, 204. PLANT ECOLOGY. A study of plants in relation to their environment. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Matheny.

205, 206. PLANT PHYSIOLOGY. The physiology of absorption, rise of sap, transpiration, food synthesis, translocation, respiration, fermentation, waste products, and growth. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Vermillion.

207, 208. MYCOLOGY. A general survey of fungi. The structural characteristics of the various groups are studied. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Boetticher.

209, 210. PLANT MICROTCHNIC. The killing, fixing, imbedding, sectioning, staining, and mounting of plant tissues, and the use of the camera lucida, micrometers, and photomicrographic practices. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Boetticher.

215, 216. TAXONOMY OF VASCULAR PLANTS. The phylogeny of pteridophytes and gymnosperms with special attention to floral structures and organography, and the taxonomy of monocotyls and dicotyls. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Boetticher.

221, 222. PLANT PATHOLOGY. A course dealing with the nature, cause, and control of plant diseases. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Matheny.

227. FRESHWATER ALGAE. The structure, classification, and environmental relations of freshwater algae. 2 lec. and 2 lab. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Matheny.

229. FIELD BOTANY. (Post session only) A lake-laboratory course at Buckeye Lake. A study of about three hundred species of plants representing more than sixty families found in and around the lake. Opportunities for studies and research in ecology and taxonomy. Fee, \$3. Prereq., 1, 2 or 101, 102. (3) Matheny.

281. RESEARCH IN BOTANY. Fee, \$1 for each credit hour. Prereq., 20 hours. (1-6) The staff.

391. SEMINAR IN BOTANY. Prereq., 15 hrs., and permission. (1-4) Matheny.

395. THESIS. Prereq., permission. (4-8) The staff.

BUSINESS LAW

(See Commerce)

BUSINESS MANAGEMENT

(See Commerce)

CHEMISTRY

Professors Morton, Dunlap; Associate Professors Gullum, Clippinger;
Instructor Eblin

The major requirement in chemistry for the A. B. or B. S. degree is a minimum of 36 semester hours including Chem. 1-2 or 3-4, 105-106, 109-110, 115-116, 119, and 213-214.

Students who plan to enter the field of chemical industry are advised to add the following to the above requirements: Chem. 120 and approved electives (14-17); Ec. 102; Geol. 125; Math. 118, 125; Phil. 109; Phys. 114 and approved electives.

1-2. GENERAL CHEMISTRY. 3 lec. and 3 or 4 lab. Fee, \$4. (4) Morton, Gullum, Eblin.

3-4 GENERAL CHEMISTRY. 3 lec. and 3 lab. Fee, \$4. Prereq., high school chemistry. (4) Clippinger, Eblin.

105-106. QUALITATIVE ANALYSIS. The separation and detection of metals. Chem. 106 continues with a complete qualitative analysis of simple substances and mixtures. 1 lec. and 8 lab. Fee, \$3. Prereq., 2 or 4. (3) Gullum.

109-110. QUANTITATIVE ANALYSIS. The problem side of analytical chemistry as well as the laboratory. The course teaches the rapidity and accuracy necessary to analytical work; the interpretation of results and the exercise of care and integrity. Primarily volumetric analysis. In Chem. 110 the following phases are considered: iodometry, volumetric precipitation, electrolytic and electrometric analysis, and gravimetric procedure. 2 lec. and 6 lab. Fee, \$4. Prereq., 4 or 105. (4) Clippinger.

113. ORGANIC CHEMISTRY. A general survey course in organic chemistry covering both aliphatic and aromatic compounds. Designed for students planning to take home economics, medical technology, or pre dental courses. Prereq., 2 or 4. (3) Dunlap.

115-116. ORGANIC CHEMISTRY. A course in organic chemistry designed for premedical, chemistry, and zoology majors. Prereq., 2 or 4. (3) Dunlap.

117. ORGANIC CHEMISTRY LABORATORY. A laboratory course designed to accompany or follow Chem. 113. 6 lab. Fee, \$5. Prereq., 113 or with 113. (2) Dunlap.

119-120. ORGANIC PREPARATIONS. Practical work in organic chemistry. 6 lab. Fee, \$5. Prereq., 115 or with 115. (2) Dunlap.

122. PHYSIOLOGICAL CHEMISTRY. 2 lec. and 4 lab. Fee, \$3. Prereq., 113 or 115. (3) Gullum.

168s. TEACHING OF CHEMISTRY AND LABORATORY PRACTICE. (Same as Ed. 168s) Instruction and practice in laboratory teaching and supervision. Prereq., permission. (2-4) Morton.

201-202. **INORGANIC PREPARATIONS.** A fundamental course in the preparation of typical chemical substances in the pure condition. The course illustrates the general methods of simple crystallization in the presence of isomorphous impurities. Several electrochemical preparations are included. Laboratory and conferences. Fee, \$4. Prereq., 109. (4) Clippinger.

205. **ADVANCED QUANTITATIVE ANALYSIS.** Special problems in analytical chemistry. Fee, \$3. Prereq., 110 and permission. (3) Clippinger.

206. **INDUSTRIAL ANALYSIS.** The analysis of oils, gases, and water, with problems for interpretation. Fee, \$3. Prereq., 110. (3) Clippinger.

209. **ADVANCED ORGANIC CHEMISTRY.** A presentation of special topics in the field of organic chemistry. Contributions of organic chemistry to fundamental chemical principles and the applications of chemical theories to problems of organic chemistry are emphasized. Prereq., 120. (3-6) Eblin.

213-214. **PHYSICAL CHEMISTRY.** Prereq., 116, Math 117 or with 117, and Phys. 6 or 114. (3) Morton.

215-216. **PRACTICAL PHYSICAL CHEMISTRY.** Fee, \$3. Prereq., 214. (3) Morton.

217-218. **ADVANCED PHYSICAL CHEMISTRY.** Prereq., 214 and Math. 118. (2-12) Morton, Eblin.

221. **QUALITATIVE ORGANIC ANALYSIS.** The separation and identification of organic compounds. Preliminary to research in organic chemistry. 1 lec. and 6 lab. Fee, \$3. Prereq., 120. (3) Dunlap.

224. **METALLOGRAPHY.** A study of metallic structure, heat treating, polishing, microscopic examination, and photographing of steels and other alloys. Fee, \$3. Prereq., 214. (3) Clippinger.

225. **ELECTROCHEMISTRY.** A study of the fundamentals of electrolysis, the phenomena of electrolytic dissociation, conductance, transference, electrokinetics, electromotive force of concentration and oxidation-reduction cells, polarization, and depolarization. Practical applications of electrolytic reduction and oxidation. Prereq., 214. (2) Clippinger.

227. **ATOMIC STRUCTURE.** The modern theory of the atom and the application to chemical phenomena. Prereq., 214. (2) Morton.

228. **COLLOID CHEMISTRY.** Theoretical discussion and applications to various fields. Prereq., 16 hrs. (3) Eblin.

229-230. **CHEMICAL ENGINEERING.** A study of the fundamental principles of unit operations with problems to illustrate the theories. Prereq., 214. (3) Dunlap.

231-232. **PRACTICAL CHEMICAL ENGINEERING.** Laboratory practice in heat transfer, filtration, distillation, etc. Fee, \$2. Prereq., 229 or with 229. (2) Dunlap.

240. **PYROMETRY.** A study of heat measurement and control in industrial operations. Fee, \$3. Prereq., 214. (3) Eblin.

251. SPECIAL PROBLEMS IN CHEMISTRY. A consideration of special problems and methods as applied to the chemical industries. Fee, \$1 for each credit hour. Prereq., 24 hrs. (2-12) The staff.

381. RESEARCH IN CHEMISTRY. Fee, \$1 for each credit hour. Prereq., 36 hrs. (3-12) The staff.

395. THESIS. Prereq., permission. (2-4) The staff.

CIVIL ENGINEERING

Associate Professors Gaylord, Wilsey;
Assistant Professors Thomas, Clark

1-2. MECHANICAL DRAWING. Free hand lettering, use of instruments, geometric constructions, orthographic projection, revolution, auxiliary and sectional views, dimensioning. Isometric, oblique, detail and assembly drawings. Intersections, developments, structural, electrical and architectural drafting, tracings and blue prints. Students who enter with two or more units of mechanical drawing may be excused by examination from part or all of the course. 6 lab. (2) Thomas.

74. ENGINEERING INSTRUMENTS. Slide rules, verniers, and other calculating machines. Prereq., Math. 5. (1) Thomas, Wilsey.

103. MECHANICAL DRAWING. Working drawings of furniture, of joints used by cabinet makers, preparation of stencils. 1 lec. and 5 lab. Prereq., 1. (2) Thomas.

105. DESCRIPTIVE GEOMETRY. Problems relating to points, lines, planes, and their projections in the different quadrants, space visualization, planes, solids, curved surfaces, intersections of planes and solids, model making, practical applications. Daily exercise sheets. 1 lec. and 4 lab. Prereq., 1. (3) Thomas.

107. PERSPECTIVE DRAWING. Representation of an object as it would appear on a plane when viewed from a point; drawing of shadows on objects and planes, both in parallel and oblique perspective. 3 lab. Prereq., 2. (1) Clark.

110. PLANE SURVEYING. Methods of obtaining measurements in the field for general engineering work, taking of proper notes, and computations. 3 lec. first ten weeks, followed by 60 hours in the field. Fee, \$3. Prereq., Math. 5. (3) Clark.

111. ROUTE SURVEYING. Application of the principles of route engineering in the field. A center line for one type of transportation route is laid out and profile and cross-sections taken. Computation of areas, cut and fill, cost estimate. 6 lab. Fee, \$2. Prereq., with 151. (2) Clark.

113. TOPOGRAPHIC SURVEYING. Application of the principles of surveying to map making, study of horizontal and vertical control, triangulation, stadia traversing, note taking and reduction, and map making. 6 lab. Fee, \$2. Prereq., 110. (2) Clark.

121. APPLIED MECHANICS (STATICS). Algebraic and graphic solution of equilibrium of forces, application to jointed frames in plane or space, centroids and moments of inertia, friction. Prereq., Math. 118 or with Math. 118. (3) Wilsey.

123. MATERIALS OF CONSTRUCTION. Manufacture, tests, properties, and uses of various materials important in engineering construction. (2) Wilsey.

124. STRENGTH OF MATERIALS. Elementary stresses and strains, torsion, flexure including elastic curve equations, columns, combined stresses, stresses due to impact. Prereq., 121. (3) Wilsey.

125. ENGINEERING PROBLEMS. Typical problems in engineering, involving applications of mathematics through calculus. Prereq., Math 118. (3) Gaylord.

126. TESTING LABORATORY. A series of experiments on the tensile, compressive, and shearing strengths of the principal materials of engineering. 3 lab. Fee, \$1. Prereq., with 124. (1) Wilsey.

127. TESTING LABORATORY. Cement and aggregate analyses, slump tests, compressive tests on concrete cylinders, effect of admixtures. 3 lab. Fee, \$1. Prereq., 126 and with 135. (1) Wilsey.

130. STRESSES IN STRUCTURES. Application of the laws of static equilibrium to the analysis of stresses in component parts of engineering structures. 4 lec. and 2 lab. Prereq., 121. (5) Gaylord.

132. GRAPHIC STATICS. Graphic solution of statically determinate forces; use of the equilibrium polygon and stress diagrams. 3 lab. Prereq., with 130. (1) Gaylord.

133. STRUCTURAL DESIGN. Principles involved in the design of members for steel structures. Applications and problems in the design of roof trusses, bridges, and building frames. 4 lec. and 2 lab. Prereq., 130 and with 124. (5) Gaylord.

134. STRUCTURAL DESIGN. Each student is required to make a complete design for a highway or railroad bridge, following standard specifications issued by the state highway departments and railroad companies. 6 lab. Prereq., 133 or 139. (2) Gaylord.

135. REINFORCED CONCRETE. Theory and design of slabs, beams, columns, and footings. Prereq., 124 and 130. (4) Gaylord.

136. MASONRY. Foundations, dams, retaining walls, abutments and simple masonry arches; masonry materials and soil mechanics applicable to the above. Prereq., 135. (3) Wilsey.

138. STRESSES IN STRUCTURES. An abbreviation of C. E. 130 for students who are not majoring in civil engineering. 2 lec. and 2 lab. Prereq., 121. (3) Gaylord.

139. STRUCTURAL DESIGN. An abbreviation of C. E. 133 for students who

are not majoring in civil engineering. 2 lec. and 2 lab. Prereq., 124 and 138. (3) Gaylord.

141. **HYDRAULICS.** Application of the fundamental principles of hydraulics to engineering. Pressure on submerged surfaces, orifices, weirs, pipes, and open channels. 3 lec. and 2 lab. Prereq., 121. (4) Clark.

142. **WATER SUPPLY AND SEWERAGE.** Sources, treatment, and delivery of pure water to consumers; collection, treatment, and disposal of water wastes. Theory of design, construction, and estimation of the various types of water works and sewage disposal plants. Prereq., 141. (3) Clark.

144. **WATER SUPPLY AND SEWERAGE.** Design of water works and sewerage systems. 1 lec. and 2 lab. Prereq., with 142. (2) Clark.

151. **ROUTE ENGINEERING.** Theory of simple and compound curves, spiral casements, vertical curves, earthwork quantities, construction methods, tracks as applied to transportation routes. Prereq., 110. (3) Clark.

152. **HIGHWAY ENGINEERING.** Materials, drainage, alinement, capacity, and finance as used in construction, maintenance, and operation of the modern highway. Prereq., 151. (3) Thomas.

214. **ADVANCED SURVEYING PROBLEMS.** Principles and practice in calculations for azimuth, longitude, and latitude by means of observations on Polaris and the sun with the surveyor's transit. Extended use of the plane table and contour lines. 6 lab. Fee, \$2. Prereq., 113. (2) Clark.

227. **ADVANCED STRUCTURAL ANALYSIS.** Theory of analysis of structures for which the conditions of statics do not suffice to effect a solution. Prereq., 130 or 138. (3) Gaylord.

228. **ADVANCED STRUCTURAL ANALYSIS.** Continuation of C. E. 227. Arches, rigid frames, Vierendeel trusses. 1 lec. and 3 lab. Prereq., 227. (2) Gaylord.

276. **CONTRACTS AND SPECIFICATIONS.** A study of the writing and use of engineering contracts and specifications. (2) Wilsey.

278. **ENGINEERING ECONOMY.** Comparisons of immediate economy, ultimate economy, advisability of replacing an existing structure, engineer's use of accounting records, estimating technique. (3) Gaylord.

291. **STUDIES IN CIVIL ENGINEERING.** Prereq., 15 hrs. (1) The staff.

CLASSICAL LANGUAGES

Professor Hill; Assistant Professor Jolliffe; Instructor Brokaw

GREEK

1-2. **BEGINNING GREEK.** An introductory study of the language leading to the reading of selections from classical authors. Attention to the Greek element in English. (4) Hill.

55, 56. CONTRIBUTIONS OF GREEK CIVILIZATION. A study of the contributions of Greek civilization to modern life. Such specific subjects as history, political science, geography, music, literature, medicine, architecture, mathematics, and the sciences are considered for the part Greece had in their development. No knowledge of Greek required. (1) Hill.

101-102. XENOPHON, HOMER, AND PLATO. The reading of parts of Xenophon's *Anabasis* with some review of language principles. Selections from Homer's *Iliad* and *Odyssey*, followed in Gk. 102 by Plato's *Apology* and *Crito* with some attention to related philosophical works. Prereq., 2. (3) Jolliffe.

114. THE GREEK EPIC IN ENGLISH. Homer's *Iliad* and *Odyssey* are read in English with special attention to their style, development, narrative, content, and their influence on later literature. (1) Jolliffe.

127. GREEK WORDS IN ENGLISH. Literary and scientific terms of Greek origin which provide a major part of the technical and semi-technical vocabulary in many of the cultural and professional fields. Special laboratory assignments for developing the student's vocabulary in the range of his particular interests. No previous knowledge of Greek required. Prereq., 6 hrs. foreign language or English. (2) Hill, Brokaw.

211. GREEK DRAMA IN ENGLISH. The evolution of the theater. Class presentation and discussion of the great Greek tragedies as well as some comedies of Aristophanes and Menander. No knowledge of Greek required. Prereq., 12 hrs. English. (2) Jolliffe.

216. NEW TESTAMENT GREEK. Prereq., 11 hrs. (2) Hill.

309. GREEK LYRIC POETS. Theocritus, Pindar, and Sappho. Prereq., 14 hrs. (2) Hill.

310. THE GREEK ORATORS. Selections from Lysias and Demosthenes. Prereq., 14 hrs. (2) Hill.

LATIN

1-2. BEGINNING LATIN. Corresponds to first two years of high school Latin. Introductory course leading to the reading of easy Latin stories of history and mythology with selections from Caesar's *Gallie War* in the second semester. Emphasizes the Latin influence on the language, literature, law, and customs of the modern world. (4) Jolliffe.

3. CICERO'S ORATIONS. Begins with a review of the language and readings from Caesar's *Gallie War*, followed by selected orations of Cicero. Prereq., 2 or 2 yrs. high school Latin. (4) Brokaw.

4. VERGIL. Selections from the first six books of the *Aeneid*, with some study of classical mythology. Prereq., 3 or permission. (4) Brokaw.

101. FAMILIAR ESSAYS. Cicero's *De Amicitia*, *De Senectute*, *Scipio's Dream*. Some review of essential elements of Latin and a comparative study of the literature on friendship during the first half of the semester. Prereq., 4, 4 yrs. high school Latin, or 3 yrs. and permission. (4) Hill.

102. HORACE AND TERENCE. A comedy by Terence and selections from Horace's *Odes and Epodes*. Prereq., 101 or permission. (4) Hill.

103. PLINY'S LETTERS. Selections which reveal the human side of Roman life and society from Nero to Trajan. Prereq., 103. (3) Jolliffe.

104. LIVY AND OVID. The legendary history of early Rome and stories from Ovid. Prereq., 103 or permission. (3) Brokaw.

112. WRITING LATIN PROSE. Exercises in writing Latin designed to give the student greater mastery of the language. Preferably to be done in conjunction with Lat. 102. Prereq., 101. (1) Hill.

121. SALLUST. (Summer session only) The *Catiline* and selections from the *Jugurtha*. Prereq., 4 yrs. high school Latin or permission. (3) Jolliffe, Brokaw.

123. NEPOS AND LIVY. (Summer session only) Selected *Lives* of Nepos and readings from Livy ranging in time from the founding of the Republic to the end of the Punic Wars. Prereq., 4 yrs. high school Latin or permission. (3) Brokaw.

125. CICERO, SELECTED WORKS. (Summer session only) The reading of important orations of Cicero not commonly read in high school, and selections from his other works which are of particular interest to teachers of high school Latin. Prereq., 101 or permission. (3) Brokaw.

127. ENGLISH WORDS FROM LATIN. Vocabulary building through a knowledge of some of the Latin elements which combine to make more than half of the words in the English language. Special attention to the needs of those who wish to master the technical language of law, medicine, science, commerce, or other special fields in which there is a large Latin element. (2) Jolliffe.

165r. TEACHING OF LATIN. (Same as Ed. 165r) Aims and methods of teaching Latin, the relation of Latin to English, determining the comparative merit of textbooks, and important reference material. Some study of important principles of the language. Prereq., 103 or permission. (2) Hill.

211. CICERO AND CATULLUS. (Not offered in 1939-1940) Selected letters from Cicero and selections from the *Carmina* by Catullus. Prereq., 103. (3) Hill, Brokaw.

212. CAESAR AND PLAUTUS. (Not offered in 1939-1940) Caesar's *Civil War* and one comedy by Plautus. Prereq., 103. (3) Jolliffe.

213. HORACE AND JUVENAL. *Satires*. Prereq., 103. (3) Hill, Brokaw.

214. TACITUS AND MEDIEVAL LATIN SELECTIONS. Tacitus' *Agricola* and *Germania*, with selections from medieval Latin. Prereq., 103. (1-3 as scheduled) Jolliffe.

220. VERGIL, LATIN EPIC. (Summer session only) Lectures on the general literary content and technique of the *Aeneid*, with translations from the last six books. Prereq., 103. (3) Hill.

221. **SUETONIUS.** (Summer session only) The lives of Julius Caesar and of Augustus with some consideration of facts obtained from other sources. Prereq., 103. (3) Hill, Brokaw.
222. **THE LATIN DRAMATISTS.** Selected comedies from Plautus and Terence and one of the tragedies of Seneca. Informal lectures on the different forms of drama among the Romans and their relation to the Greek. Prereq., 103. (3) Hill, Jolliffe.
223. **VERGIL'S ECGUES AND GEORGICS.** (Summer session only) Informal lectures on the early life of Vergil with the reading of selections from the *Eclogues* and *Georgics*. Some attention is also given to the collection of minor works known as the *Appendix Vergiliana*. Prereq., 103. (3) Jolliffe.
224. **PETRONIUS.** The *Cena Trimalchionis* is read and studied both for the light it throws on social life at Rome and as an example of Latin prose of the Empire. Prereq., 104. (2) Brokaw.
225. **DE NATURA DEORUM.** Cicero's presentation of the classic conception of the nature of God and the founding of the universe. Prereq., 104. (2) Hill.
226. **MARTIAL.** A study of the epigrams of Martial as they portray with vivid personal touch almost every phase and station of Roman life. Prereq., 104. (1) Jolliffe.
227. **ROMAN HISTORY IN THE CLASSICAL PERIOD.** (Summer session only) A brief survey of the outstanding events of Roman history during the period in which the most important works of Latin literature were produced. Prereq., 6 hrs., or 9 hrs. history and antiquities. (1) Hill, Jolliffe.
228. **ROMAN RELIGION AND MYTHOLOGY.** Emphasis upon the relationship between Roman religion and mythology and upon the attributes and functions of the various divinities and mythological characters. Prereq., 8 hrs. classical languages or history and antiquities, or 12 hrs. English. (2) Brokaw.
229. **DEVELOPMENT OF ROMAN CULTURE.** Beginning with the archaeological evidence of civilization in Italy and in the whole area of the Mediterranean at the time of the traditional founding of Rome, the course is designed to trace the various influences and stages in the growth of Roman culture. Prereq., 9 hrs., or 12 hrs. history and antiquities. (2) Hill.
231. **THE LIFE OF THE ROMANS.** The social customs of the Romans: the family, the house, transportation, sources of income, social organization, slavery, public amusements, and related features of Roman life. Various phases are illustrated from the archaeological evidence. Prereq., 12 hrs., or 12 hrs. history and antiquities. (2) Hill.
232. **INTRODUCTION TO THE HISTORY OF LANGUAGE.** The evolution of language. Special attention to the development of the Romance languages from Latin and to the history and development of English. Prereq., 12 hrs. foreign language or 12 hrs. English. (2) Jolliffe.
233. **ADVANCED LATIN SYNTAX.** A study of the principles of Latin syntax with emphasis upon their application in translation. Prereq., 103. (1-3) Hill, Brokaw.

235. LATIN POETRY OF THE EMPIRE. Generous selections from the best of the post-Augustan poets. Designed to acquaint the student with the wealth of poetic literature in the period which followed the golden age. Prereq., 103. (3) Hill.

238. EPIGRAPHY AND PALEOGRAPHY. An introductory study of the form and content of Latin inscriptions with the reading of a limited number to illustrate their value as a source of information. A consideration of Latin manuscripts, the various styles of writing, and the relation of the manuscripts to the established text of a Latin author. Prereq., 103. (2) Jolliffe, Brokaw.

240. SPECIAL WORK IN LATIN. Individual work under careful guidance. Prereq., 103. (1-5) The staff.

311. OVID'S FASTI. Selected books of the *Fasti* are read for content and for the light they throw on early Roman religion. Some study of elementary principles of text criticism. Prereq., 15 hrs. (3) Hill.

312. SALLUST'S CATILINE AND JUGURTHA. These are read in their entirety as a background to the political situation which ushered in the Empire. Prereq., 20 hrs. (3) Hill.

391. LATIN OF THE TRANSITION PERIOD (SEMINAR). Prereq., 20 hrs. (3) Hill.

395. THESIS. A thesis may be offered in Latin or in classical languages. Prereq., permission. (4-8) The staff.

COLLEGE PROBLEMS (See Personal Relations)

COMMERCE

Professors Gubitz, Armbruster;
Associate Professors Fenzel, Paynter, Beckert, Ray, Hellebrandt;
Assistant Professors Hanson, Krauskopf, Dykstra;
Instructors Sponseller, Otis, Miller, Snook, Church, Dernburg,
Gilmore, McCabe, Davis

ACCOUNTING

75-76. ELEMENTARY ACCOUNTING. The fundamental principles of accounting theory and practice as they affect corporations, partnerships and proprietorships. The entire cycle of bookkeeping procedure. Ledger organization, expense controls, controlling accounts and cost records with a discussion of exceptions and alternative methods constitute the work in Acct. 76. (3) Fenzel, Beckert, Ray, Otis.

81. ACCOUNTING SURVEY. Open only to non-commerce students in order that they may obtain a knowledge of general principles of accounting in a minimum of time. (2) Beckert.

101-102. SECRETARIAL ACCOUNTING. The fundamental principles of accounting with particular emphasis on their application in the accounts of institutions, societies, individuals, and professional men. Not open to students who have had Acct. 75-76. (3) Sponseller.

125. INTERMEDIATE ACCOUNTING. The preparation and analysis of balance sheet and income statements, principles of actuarial science, accounting for corporate net worth, and current asset valuation. Prereq., 76 or 102. (3) Fenzel, Beckert, Otis.

156. ACCOUNTING SYSTEMS. Principles and problems of system designing and analyses of systems for specialized enterprises. Prereq., 125. (3) Otis.

161b. TEACHING OF BOOKKEEPING. (Same as Ed. 161b) Prereq., 125. (2) Beckert.

175. COST ACCOUNTING. Manufacturing cost determination under the job-order and process systems. Prereq., 125. (3) Ray.

195. ADVANCED PRINCIPLES OF ACCOUNTING. Actuarial science as related to accounting, principles of fixed asset valuation, special phases of net worth accounting, consignments, instalment sales, and special statement analyses. Prereq., 125. (3) Beckert, Ray, Otis.

206. ADVANCED PROBLEMS OF ACCOUNTING. Problems peculiar to partnerships, receiverships, and fiduciaries; accounting for branch houses, ventures, governmental units, and brokers; consolidated statements; and foreign exchange as related to accounting. Prereq., 195. (3) Ray, Otis.

224. STANDARD COSTS AND BUDGETS. The establishment of cost standards; preparation of budgets; and analysis of cost variances. Prereq., 175. (3) Ray.

243. INCOME TAX. A study of the current Federal Revenue Act, and its application to hypothetical cases. Returns are prepared for individuals, partnerships, and corporations. Prereq., 125. (3) Ray.

255. AUDITING PRINCIPLES. Purposes and scope of audits and examinations; theory and principles of procedure. Prereq., 195. (3) Otis.

256. AUDITING PRACTICE. Problems of procedure, consisting of comprehensive practice material based on an actual audit, supplemented by study of the content, design, and use of accountants' working papers and reports. Prereq., 255. (4) Otis.

278. C. P. A. PROBLEMS. Analysis, interpretation, and solution of problems selected from examinations given by various state boards. Prereq., 255. (3) Otis.

281. RESEARCH IN ACCOUNTING. Prereq., 175, 195, and permission. (2-8) The staff.

391. SEMINAR IN ACCOUNTING. Prereq., 15 hrs. accounting and permission. (2-10) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

ADVERTISING

155. ADVERTISING PRINCIPLES. A survey of advertising which considers its place in the field of marketing and its fundamental principles as developed in special procedures relating to copy, mechanical production, media, testing and agency work. Prereq., Mkt. 155 or permission. (3) Krauskopf.

176. ADVERTISING PROBLEMS. A logical sequel to Advt. 155. It emphasizes administrative problems and the coordination of advertising with other marketing activities. Prereq., 155. (2) Krauskopf.

186. RETAIL ADVERTISING. The principles of advertising as related to the needs of retailers. Prereq., 155. (3) Krauskopf.

211. DIRECT MAIL ADVERTISING. An examination of direct mail materials other than the letter from the campaign point of view. Special emphasis is placed on booklets. Prereq., 155 and Ec. 102. (2) Krauskopf.

232. COPY WRITING. (1940-1941) The elementary essentials of copy developed by the study of current theory and analysis of tested examples. Considerable constructive work is required. Prereq., 155 and Ec. 102. (2) Krauskopf.

281. RESEARCH IN ADVERTISING. Prereq., 18 hrs. commerce including 5 hrs. advertising and permission. (2-8) The staff.

391. SEMINAR IN ADVERTISING. Prereq., 18 hrs. commerce including 5 hrs. advertising and permission. (2-10) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

For additional courses see the following:

Ind. A. 145. Newspaper Printing and Make-up

Jour. 177. Newspaper Advertising Practice

Jour. 247. Newspaper Advertising

P. A. A. 148. Principles of the Space Arts in Advertising

P. A. A. 217-218. Poster Advertising and Industrial Styling

Psych. 6. The Psychology of Advertising and Selling

BUSINESS LAW

155-156. BUSINESS LAW. The principles of law involved in contracts, agency, sales, bailments, negotiable instruments, partnerships, and corporations. (3) Dykstra.

175. GOVERNMENT AND BUSINESS. Statutes, and court decisions interpreting them, by which federal, state, and local governments control, regulate, and aid business. Prereq., junior rank. (2) Dykstra.

190. BUSINESS TORTS. Trespass to personal and real property, nuisance, libel and slander, negligence, fraud or deceit, and unlawful interference with business or employment. Prereq., 155 and 175, or 156. (3) Dykstra.

205. LAW OF MARKETING. Trademarks, methods of protecting goodwill, relief against unfair competition and the legal aspects of other problems encountered in advertising and marketing. Prereq., 155 and Mkt. 155. (2) Dykstra.

211. LAW OF CORPORATE ORGANIZATION AND REORGANIZATION. Legal problems involved in corporate formation, and reorganization with special reference to procedure under 77 B of the Federal Bankruptcy Act. Prereq., 156. (2) Dykstra.

222. LAW OF COMMERCIAL PAPER. A comprehensive study of bills and notes and other evidences of indebtedness. Prereq., 156. (2)

231. LAW OF WILLS AND TRUST ADMINISTRATION. The disposition of property by will and the creation and administration of trusts. Prereq., 156. (2)

242. LAW OF REAL ESTATE AND CONVEYANCING. Deeds, mortgages, leases, and other interests in real property, and the relationships between landlord and tenant. Prereq., 156. (2) Dykstra.

255. BUILDING AND LOAN ORGANIZATION AND MANAGEMENT. Legal aspects of building and loan organization and management under state and federal charter. Prereq., 156. (2)

281. RESEARCH IN LAW. A study of selected cases and current litigation in any field of law of particular interest to the student. Prereq., 18 hrs. commerce including 156 and permission. (2-8) The staff.

BUSINESS MANAGEMENT

15. INTRODUCTION TO BUSINESS MANAGEMENT. A comprehensive picture of business life covering the organization and functioning of business enterprises. Not open to upper classmen pursuing the Bachelor of Science in Commerce degree. (3) Beckert, McCabe.

211. INDUSTRIAL MANAGEMENT. The principles of the organization and the management of industrial enterprises, the management movement, and the newer principles and practices in functional factory organization. Prereq., Ec. 102. (3) Gubitz.

271. BUSINESS POLICY. A correlation of the work of other courses offered in commerce. Business problems of general administration rather than those of any special activity are considered. Prereq., Ec. 102 and senior rank. (3) Armbruster.

For additional courses see the following:

- Ec. 212. Administration of Personnel
- Ec. 235. Labor Relations
- Ec. 238. Labor Legislation
- Stat. 172. Control of Business Operations

ECONOMICS

1. ECONOMIC DEVELOPMENT. A study of the economic development of man and his institutions. (3) Gubitz, Hellebrandt, Davis.

Note—It is recommended that this course precede or follow Soc. 1, Social Development, thus giving University College students a one year introductory course in social science.

2. ECONOMIC DEVELOPMENT. An explanation of the inter-relationships of the European economic system. (3) Gubitz, Hellebrandt.

15. ECONOMIC RESOURCES AND INDUSTRIES OF THE WORLD. The important natural resources: plants, animals, minerals, and power; the typical manufacturing industries; the systems of transportation: land, water, and air; all studied in their relation to man in his quest for a living. (3) Fenzel.

101-102. PRINCIPLES OF ECONOMICS. The following economic material is presented: production, consumption, distribution, exchange, money and banking, business cycles, credit, international economic relations, government and taxation, and economic control. (3) Gubitz, Hellebrandt, Dernburg, McCabe, Davis.

205. TRANSPORTATION. The social, political, and economic aspects of the transportation problem are viewed by analyzing the nature, history, and problems of the various transportation agencies of the United States. Prereq., 102. (3) Hellebrandt.

206. TRANSPORTATION PROBLEMS. Coordinate transportation, motor vehicle regulation, consolidation, finance, holding companies, commission regulation, and other current problems as they affect the various transportation agencies. Prereq., 205. (2) Hellebrandt.

209. PUBLIC UTILITIES. The course is a study of the economic basis of public utility enterprise: its nature and scope, its development and legal organization. Prereq., 102. (3) Hellebrandt.

210. PUBLIC UTILITY PROBLEMS. Practical problems of rate-making, service, finance, the holding companies, public ownership, public relations, and commission regulation as they affect local utility companies. Prereq., 209. (2) Hellebrandt.

212. ADMINISTRATION OF PERSONNEL. A comprehensive survey in the principles of the management of people in business organizations and institutions. Among the subjects treated are industrial government, employment management, accident and waste prevention, labor turnover, and similar topics. Prereq., 102. (3) Gubitz.

213. FINANCIAL DEVELOPMENT OF THE UNITED STATES SINCE 1890. Fiscal policies of the Federal government, the rise in public expenditures and the public debt, modernization of the Federal revenue system, monetary and banking policies as influenced by the Federal government. Prereq., 102. (3) McCabe.

215. PUBLIC FINANCE. Government revenues other than taxation, the rise in public expenditures in modern times, public debts, the budget, the search for efficiency in fiscal administration. Prereq., 102. (2) McCabe.

216. TAXATION. The Federal tax system: income, excise, estate taxes; state taxes on income, sales, bequests; local tax methods; tax system related to the stage of economic development. Prereq., 102. (2) McCabe.

220. TRUST AND CORPORATION PROBLEMS. A discussion of the combinations or trust problem as it has developed in the United States and other countries. Prereq., 102. (3) Gubitz.

227. CURRENT ECONOMIC PROBLEMS. A discussion of economic problems arising currently. Prereq., 102. (3) Gubitz, Hellebrandt, Davis.

229. MODERN TRENDS IN ECONOMIC REFORM. Proposals for improving the standard of living; 19th century reformers in Europe and America, the repercussions of their programs in legislation and business policy; background of national socialism, Fascism, state socialism and modified capitalism. Prereq., 102. (3) McCabe.

230. HISTORY OF ECONOMIC THOUGHT. A study of the historical evolution of the principal economic doctrines: the Athenian philosophers and Roman jurists, the mercantilists and cameralists, the physiocrats and Adam Smith, the classical school, the historical school, and the Austrian school. Prereq., 102. (2) Gubitz, Davis.

232. ECONOMIC THEORY. Designed to give advanced students in business and economics a firm grasp of the most important economic theories and the relation of these theories to major economic problems. Prereq., 102. (2) Davis.

235. LABOR RELATIONS. A general survey of the forces that give rise to modern labor problems. The purpose of the course is: to give a basis for the developing of a general point of view, to make an analysis of the major problems involved, to indicate the trend of policy and organization, and to offer constructive suggestions for the handling of administrative problems. Prereq., 102. (3) Gubitz.

238. LABOR LEGISLATION. A sketch of the historical background of various labor problems indicating the nature and extent of each and describing the legislative remedies which have been applied. Prereq., 102. (3) Gubitz.

281. RESEARCH IN ECONOMICS. Prereq., 15 hrs. and permission. (2-8) The staff.

302. MODERN ECONOMIC THOUGHT. A general survey of contemporary economic thought. It includes a study of J. B. Clark, Thorstein Veblen, Alfred Marshall, J. A. Hobson, W. C. Mitchell, and others. Prereq., 18 hrs. commerce including 102. (2) Gubitz.

304. INSTITUTIONAL ECONOMICS. Collective action in the control, liberation, and expansion of individual action. Consideration is given to the writings of economists from John Locke to the twentieth century and to court decisions. Prereq., 12 hrs. (2) Hellebrandt.

391. SEMINAR IN ECONOMICS. Prereq., 15 hrs. and permission. (2-10) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

For additional courses see the following:

Fin. 219. Insurance

FINANCE

101. MONEY AND CREDIT. The elementary concepts of money, credit and exchange, and a historical survey of monetary systems with special emphasis on price stabilization, monetary reform, and credit problems. (3) Hanson, Dernburg.

106. BANKING PRINCIPLES. The theory of banking, the state and national banking systems, the Federal Reserve system, and a historical survey of banking in the United States. Prereq., 101. (3) Hanson.

121. BUSINESS FINANCE. The elements of business finance, the corporation, corporate securities, and financial plans. (3) Armbruster, McCabe.

142. CONSUMER FINANCING. A survey of the institutions other than commercial banks which are designed to furnish this type of financing. Prereq., 101. (2) Hanson.

156. ADVANCED BUSINESS FINANCE. The sale of securities, distribution of income, expansions and reorganizations. Prereq., 121. (3) Armbruster, Hanson.

159. FOREIGN EXCHANGE. The foreign exchanges, methods of financing foreign trade, and exchange problems. Prereq., 101 and Ec. 102. (3) Dernburg.

175. INVESTMENT PRINCIPLES. A study of various types of securities; investment tests, investment policies, methods of security analysis, and sources of information. Prereq., 121. (2) Wolfe.

201. THE STOCK MARKET. The organization, operation, and regulation of stock exchanges, with particular reference to the New York Stock Exchange. Prereq., 101 and 121. (2) Hanson.

206. INVESTMENT ANALYSIS. An analytical approach to the formulation of investment programs and the selection of specific securities. Prereq., 175. (2) Wolfe.

212. CREDITS AND COLLECTIONS. The principles, methods, and policies of mercantile and retail credit. Prereq., 101 and Ec. 102. (2) Paynter.

219. INSURANCE. Prereq., Ec. 102. (2) Hellebrandt.

221. FEDERAL RESERVE SYSTEM. The history of the Federal Reserve system, its structure and operation with particular emphasis on its relation to the money market and the problem of credit control. Prereq., 106. (2) Hanson.

242. FOREIGN BANKING SYSTEMS. The central banking and commercial banking systems of the leading foreign countries and an examination of their

banking theories and policies. Some attention is paid to a comparison with American banking methods. Prereq., 106. (2) Dernburg.

252. INTERNATIONAL FINANCE. The financial relations between nations dealing with such problems as the international price level, foreign investments, war debts, reparations, and international banking. Prereq., 101 and Ec. 102. (3) Dernburg.

281. RESEARCH IN FINANCE. Special studies in money, banking, or business finance. Prereq., 9 hrs., Ec. 102, and permission. (2-8) The staff.

391. SEMINAR IN FINANCE. Prereq., 9 hrs., Ec. 102, and permission. (2-10) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

For additional courses see the following:

Bus. L. 211. Law of Corporate Organization and Reorganization

Bus. L. 222. Law of Commercial Paper

Bus. L. 255. Building and Loan Organization and Management

Ec. 220. Trust and Corporation Problems

MARKETING

155. MARKETING PRINCIPLES. The principles, methods, and policies of marketing consumers' goods and industrial goods. (3) Paynter, Krauskopf.

158. MARKETING PROBLEMS. A consideration by the case method of the problems facing the producer and the middleman. Prereq., 155. (3) Paynter.

171. PRINCIPLES OF PERSONAL SELLING. The fundamentals of personal salesmanship and the problems involved in the relationship of the personal salesman to the sales organization. Prereq., 155. (2) Krauskopf.

176. SALES MANAGEMENT. Problems in the management of the sales organization and in some of the immediately related fields of management. Prereq., 155. (3) Krauskopf.

191. COOPERATIVE MARKETING. A survey of cooperative marketing in all the stages of distribution. Prereq., 155 or permission. (2) Paynter.

201. RETAILING. The organization and operation of retail institutions. Prereq., 155 and Ec. 102. (3) Paynter.

205. PRINCIPLES OF FASHION MERCHANDISING. The relation of fashion in all kinds of merchandise to the production and distribution of merchandise. Prereq., 201. (3) Miller.

211. RECENT TRENDS IN MARKETING AND SELLING. (Summer session only) Prereq., 155 and Ec. 102. (3) Krauskopf.

226. INDUSTRIAL PURCHASING AND INDUSTRIAL MARKETING. The purchasing and selling of industrial goods. Prereq., 155 and Ec. 102. (3) Paynter.

241. FOREIGN TRADE. The theory of foreign trade including free trade and protection, and commercial treaties and tariff history. Prereq., Ec. 102. (3) Paynter.

246. FOREIGN MARKETS. A study of foreign markets from the point of view of the American exporter. Prereq., 155 and Ec. 102. (2) Paynter.

257. RETAIL SELLING PROBLEMS. Prereq., 205 and H. Ec. 256. (2) Miller.

260. STORE PRACTICE. Experiences in selling and non-selling operations in retail stores supplemented by reading, lectures by store executives, and conferences with supervisors. Applicable for credit only toward the degrees of Bachelor of Science in Education and the Bachelor of Science in Secretarial Studies. Prereq., 257. (5) Miller.

281. RESEARCH IN MARKETING. Research methods, market data and methods of conducting market surveys. Prereq., 18 hrs. commerce including 5 hrs. marketing, and permission. (2-8) The staff.

391. SEMINAR IN MARKETING. Prereq., 18 hrs. commerce including 5 hrs. marketing, and permission. (2-10) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

SECRETARIAL STUDIES

15-16. TYPEWRITING. Students are expected to attain a speed of thirty words a minute at the close of the first semester; forty-five words a minute at the close of the second semester. Students who have had typewriting in high school should register for Sec. St. 16 or 111. 5 lec. and 1 lab. Fee, \$2. (2) Snook, Gilmore.

31-32. SHORTHAND. A course in Gregg shorthand. In the second semester, a student should pass the standard Gregg Writer Complete Theory Test and a five-minute sixty-word-a-minute transcription test. Four hours a week. Prereq., 15 or with 15. (3) Miller.

75-76. STENOTYPY. A system of recording speech in plain English letters by means of a machine called the stenotype. Four hours a week. One additional hour to be arranged. Prereq., 15. (3) Snook.

101-102. SECRETARIAL ACCOUNTING. See Acct. 101-102.

111. TYPEWRITING. A course planned to develop typewriting speed and accuracy. 5 lec. and 1 lab. Fee, \$2. Prereq., 16. (2) Sponseller.

120. BUSINESS LETTER WRITING. The principles of writing business letters and reports. Prereq., Eng. 2 or 4. (3) Gilmore.

151-152. DICTATION AND TRANSCRIPTION. The standard of credit for the first semester is the 100-word transcription test; for the second semester, 120 word. Two hours a day, four days a week. Prereq., 16 and 32. (5) Miller.

153. COURT REPORTING. The techniques of reporting in shorthand and transcribing court proceedings, hearings, meetings, etc. One hour daily. Prereq., 111 and 152. (3) Miller.

161a. TEACHING OF BUSINESS SUBJECTS. (Same as Ed. 161a) Prereq., junior or senior rank. (2) Snook.

161s. TEACHING OF SHORTHAND. (Same as Ed. 161s) Prereq., 151 or an eighty-word dictation test. (2) Miller.

161t. TEACHING OF TYPEWRITING. (Same as Ed. 161t) Prereq., 111. (2) Sponseller.

171. SECRETARIAL THEORY. Designed to give training in the operation of office machines and in the duties of a private secretary. Five hours a week. Fee, \$2. Prereq., 16 and 32. (2) Sponseller.

172. SECRETARIAL THEORY. Designed to give the student training in filing and in the use of the commercial dictaphone. Three hours a week. Fee, \$1. Prereq., 16 and 32. (1) Snook.

175. SECRETARIAL PRACTICE. Students spend five hours a week working in offices on the campus, and five hours in the secretarial practice laboratory and conference. Prereq., 151 and 171. (4) Sponseller, Rowland.

180. OPERATION OF OFFICE MACHINERY. Five hours a week. Prereq., junior or senior rank. Fee, \$2. (2) Sponseller.

185. OFFICE MANAGEMENT. A study of the principles governing office administration with emphasis upon organization, management, layout, equipment, and functions. Prereq., junior or senior rank. (2) Snook.

287. RESEARCH IN BUSINESS TEACHING PROBLEMS. (Same as Ed. 287) Prereq., 20 hrs. commerce and permission. (2-8) The staff.

391. SEMINAR IN BUSINESS TEACHING PROBLEMS. (Same as Ed. 391) Prereq., 20 hrs. commerce and permission. (2-10) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

STATISTICS

155-156. BUSINESS STATISTICS. Elementary statistical methods used in business. 2 lec. and 2 lab. Fee, \$3. (3) Church.

172. CONTROL OF BUSINESS OPERATIONS. Largely a study of charting and rapid graphic methods used in controlling production, purchasing, sales and investment policies of business organizations. Prereq., 155. (2) Church.

203. ADVANCED BUSINESS STATISTICS. A continuation of Stat. 155-156 in sampling, trend fitting, and correlation, with emphasis upon practical applications. Prereq., 156 and Ec. 102. (3) Church.

241. BUSINESS CYCLES. A study of the broad aspects of business cycles, the variations in intensity and timing among selected industries, and a brief

survey of some methods used in forecasting business fluctuations. Prereq., 155 and Ec. 102. (3) Church.

245. FORECASTING. A study of forecasting methods used in prediction of long term trends, business cycles, and price changes. Selected methods are applied to current data. Prereq., 156 and Ec. 102. (3) Church.

252. CURRENT BUSINESS CONDITIONS. A study of current business reports and of sources and types of data available concerning recent business conditions. Prereq., 155 and Ec. 102. (3) Church.

281. RESEARCH IN BUSINESS STATISTICS. Prereq., 18 hrs. commerce including 156 and permission. (2-8) The staff.

391. SEMINAR IN BUSINESS STATISTICS. Prereq., 18 hrs. commerce including 156 and permission. (2-10) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

For additional courses see the following:
Math. 226. Theory of Statistics

DRAMATIC ART

Professor Dawes; Associate Professor Staats;
Instructors Jukes, Blyton, Rowan

1. SPEECH SURVEY. A series of lectures designed to give the student a broad conception of the subject matter covered by the School of Dramatic Art. Periodic quizzes and reports. (1) The staff.

7. INTRODUCTION TO THE FINE ARTS. Lectures and demonstrations planned to acquaint students with the fine arts field. (1) Fine Arts staff.

DRAMATIC PRODUCTION

21. SCENERY AND LIGHTING. A basic course in the technical considerations of producing a play; the underlying principles of scenic construction and illumination. (3) Jukes.

103. INTRODUCTION TO THE THEATRE. The relation of the theatre to the community. The organization and business management of the amateur dramatic group. The play and the bases for its selection. Editing script, casting, rehearsal methods, directing techniques, and the performance. (3) Dawes.

106. COSTUMING THE PLAY. Consideration of the use of color, line, and texture in designing, constructing, and adapting costumes for the stage. 1 lec. and 2 lab. (2) Hyde.

109. MAKE-UP. The study of the history, development, and practical application of all types of make-up for the actor. Prereq., 4 hrs. (2) Hyde.

122. SCENE DESIGN AND PAINTING. A course in the various theories of designing settings and painting them. Attention is given to the effect of stage lighting on scenery and make-up. Opportunity for practical experience is given through participation in the University Theatre and Fortnightly Playshop productions. Prereq., 3 hrs. (3) Jukes.

125. RADIO PLAY PRODUCTION. Radio techniques including the study of sources for radio material and the editing and preparation of radio play script. Use of sound effects. Practice work in the university sound studio and in nearby radio stations. 1 lec. and 2 lab. Prereq., 15. (2) Jukes.

131, 132. STAGECRAFT. The construction of stage settings and costumes. Application of the theory and principles of the course in scene design through the production activities of the University Theatre and the Fortnightly Playshop. 6 lab. Prereq., 122. (3) Jukes.

140. PUPPETRY. The principles involved in the building, costuming, and manipulation of marionettes, hand-puppets, and hand-and-rod puppets. The student constructs puppets and participates in marionette productions. 1 lec. and 4 lab. Prereq., 4 hrs. (3) Jukes.

142. PLAYS FOR PUPPETS. Survey of the plays written for puppets. Consideration of the marionette theatre as an art form, and analysis of the possible types of puppet production. Collection of materials for extempore dramatization and practice in organizing new ideas for marionette presentation, and consequent practice in manipulation. 1 lec. and 4 lab. Prereq., 3 hrs. (3) Jukes, Hyde.

149. PRINCIPLES OF ACTING. A presentation and discussion of the most widely accepted acting techniques, supplemented by practical experience in the one-act plays produced by the Fortnightly Playshop. 1 lec. and 4 lab. Prereq., 4 hrs. or permission. (3) Rowan.

150. ADVANCED ACTING TECHNIQUE. A continuation of Dram. A. 149, stressing more difficult characterizations. Laboratory experience provided in the productions of the Fortnightly Playshop. 1 lec. and 4 lab. Prereq., 149. (3) Rowan.

162h. TEACHING OF HIGH SCHOOL DRAMATICS. (Same as Ed. 162h) Sources of dramatic material on the high school level. Methods of casting, staging, and production from the point of view of the secondary school. Organization and function of the dramatic club. Prereq., 4 hrs. dramatic art, 12 hrs. English, or permission. (2) Dawes.

179. HISTORY OF THE VISUAL THEATRE. A review of the development of the physical aspects of the theatre. The sociological, religious, and political factors which have affected methods of dramatic presentation. Techniques contributed by such men as Appia, Bibiena, and Jones. Prereq., 6 hrs., or 12 hrs. English. (3) Jukes.

206. ADVANCED SCENERY AND LIGHTING. Theories and problems involved in stage lighting and scenic elements of decor. Experimentation with paint, structure, and light, using the model set. Use and manipulation of the

theatre's switchboard. 1 lec. and 3 lab. Prereq., 12 hrs. including 21, 122, and 131. (3) Jukes.

221, 222. **DRAMATIC COMPOSITION.** Theory of playwriting. Practical experience in the writing and re-writing of plays. Scripts of sufficient merit are produced under the writer's supervision by the Fortnightly Playshop. Emphasis is placed on the student's apperceptive background. Prereq., 6 hrs. and 12 hrs. English. (3) Rowan.

250. **PLAY DIRECTION.** Development of procedure followed by the director in preparing plays for public performance. Analysis of the script. Methods of casting and rehearsal. Capable students direct one-act plays presented by Playshop. 1 lec. and 4 lab. Prereq., 12 hrs. including 103, 149, and 150, or in case of graduate students, practical experience in schools. (3) Dawes.

251. **ADVANCED PLAY DIRECTION.** A continuation of Dram. A. 250; for students who have demonstrated ability as student directors of Playshop productions. 1 lec. and 4 lab. Prereq., 250. (3) Dawes.

381. **RESEARCH IN THEATRE PRACTICE.** Specific phases of the production process. Attention to classic and contemporary literary treatment. Directed experimentation in theatrical techniques. Conferences arranged. Prereq., 18 hrs. (3-6) Dawes.

393. **SEMINAR IN PRODUCTION PROBLEMS.** Each student investigates problems in his field of interest. Lectures and group discussions include pageantry, the musical drama, the puppet theatre, the community and church theatre, educational dramatics below the college level, and dramatic criticism. Prereq., 15 hrs. (2-3) Dawes.

395. **THESIS.** Prereq., permission. (4-8) The staff.

SPEECH

3. **PUBLIC SPEAKING.** A fundamental course in effective speaking. Practice in presenting short informative, entertaining, and persuasive speeches with emphasis upon intellectual and emotional adjustments to speaking situations. Conferences with instructor. (2) Blyton, Rowan.

15. **VOICE AND DICTION.** Designed to assist in making social adjustments through the medium of speech training. Emphasis upon mental, physical, and emotional coordinations essential to good voice. Special attention to phrasing, intonation, pronunciation, and minor speech difficulties. Group and individual guidance. Vocal recordings. Fee, \$2. (2) Hyde.

25. **PRINCIPLES OF ARGUMENTATION.** Analysis of the debate proposition, preparation of the brief, study of evidence, and class debates. (2) Staats.

102. **ADVANCED PUBLIC SPEAKING.** An extended study and application of the principles of public speaking. Prereq., 3, 15, or 25. (2) Staats.

110. **PARLIAMENTARY LAW.** A study of the techniques involved in conducting a public gathering and of presiding over an assembly. (1) Staats.

113. **PUBLIC ADDRESS.** Designed to furnish the student a deeper insight into the rhetorical aspects of the public address. This course furnishes opportunity for the preparation of speeches for local, state, and national oratorical contests. Emphasis is placed on informal, conversational delivery. Classical standards as to preparation and organization are maintained. Prereq., 3 or 15, 25, and 102. (2) Staats.

117. **DEBATE PRACTICE.** Preparation of debate cases and participation in inter-collegiate debates. Prereq., 25. (3) Staats.

134. **ORAL INTERPRETATION OF LITERATURE.** Effective techniques in reading aloud; aid in the development of adequate intellectual and emotional responsiveness to the meaning of literature. Consideration given the various schools of interpretation. Discussion of theory. Practice in reading aloud. Prereq., 3 or 15. (2) Hyde.

139. **ADVANCED DEBATE.** Advanced work in all phases of debating. Prereq., 117 and 1 yr. on the varsity squad. (3) Staats.

162s. **TEACHING OF SPEECH IN THE GRADES.** (Same as Ed. 162s) The various phases of speech pertaining to work in the elementary grades. Assembly programs, oral interpretation, intraclass and interclass debates, platform delivery, and educational dramatics. (2) Dawes.

162x. **TEACHING OF SPEECH IN THE HIGH SCHOOL.** (Same as Ed. 162x) Emphasis placed on indicated procedures in high school speech classes; a comprehensive survey of the literature and material adapted to speech training in high schools; and the correlation of speech work with extra-curricular activities such as debating, parliamentary procedure, panel discussions, and assembly programs. Prereq., 3, 15, 25, 102, or permission. (2)

195. **INTRODUCTION TO SPEECH PATHOLOGY.** The nature, symptoms, causes, etiology, and diagnosis of disorders of speech and voice. Clinical practice in the correction of speech anomalies for students not enrolled in Dram. A. 220. Prereq., 6 hrs., Psych. 1 or 5, or permission. (3) Blyton.

202. **ADVANCED ORAL INTERPRETATION.** Continuation of Dram. A. 134 with emphasis upon developing skill in oral rendition of the short story, prose, and various forms of poetry. Prereq., 134. (2) Hyde.

203. **AMERICAN SPEAKERS.** Thorough study of the outstanding speakers of America. A study of the speeches, the circumstances under which they were delivered, and their influence measured by conditions of the time. Prereq., 102. (3) Staats.

208. **HISTORY OF ORATORY.** Class study of orations characteristic of the oratory of various periods of history. Prereq., 6 hrs. (3) Staats.

209-210. **RHETORICAL THEORY.** A detailed study of the principles of rhetoric based upon the theories of Aristotle, Cicero, Quintilian, and Adams. Modern viewpoints are investigated. In Dram. A. 210, speeches of eminent orators are analyzed by methods introduced in Dram. A. 209. Prereq., 203 and 208. (3) Staats.

212. **PHONETICS.** The study of speech sounds from a sociological, physiological, and acoustical point of view. Mastery of the international phonetic alphabet. Training in phonetic transcription. Discussion of various American dialects. Presentation of the sound systems of French, Italian, Spanish, and German. Prereq., 6 hrs. or permission. (3) Blyton.

220. **CLINICAL METHODS.** An intensive study of various methods employed in the field of speech correction. Practical clinical experience. 1 lec. and 4 lab. Prereq., 10 hrs. including 195. (3) Blyton.

391. **SEMINAR IN SPEECH.** Problems in speech, the various speech movements, and the evolution of the speech curriculum. Remedial speech demands in the elementary and secondary school work. Assigned problems. Prereq., 15 hrs. (2-3) Staats.

395. **THESIS.** Prereq., permission. (4-8) The staff.

ECONOMICS

(See Commerce)

EDUCATION

Professors Wagner, Morton, McCracken, Sias, Beechel, Hansen,
Benz, Class; Associate Professor Hampel;
Assistant Professor Shoemaker; Instructor Quick

ELEMENTARY EDUCATION

111. **ELEMENTARY EDUCATION.** Principles, management, and tests in elementary education. A unitary course to parallel observation and student teaching in the kindergarten and elementary school. 2 lec. and 8 lab. Fee, \$6. (6) Beechel, Class, Quick.

112. **PRINCIPLES OF ELEMENTARY EDUCATION.** A study of the aims of education; the nature of the learner and of society, and the sociological needs of contemporary life. Prereq., sophomore or junior rank. (3) Beechel.

113. **EDUCATIONAL TESTS AND MEASUREMENTS.** Standardized and informal new-type tests for the elementary grades and the junior high school; problems involved in the building, administering, scoring, and interpretation of results of the tests. Fee, \$2. (2) Class.

114. **CLASSROOM MANAGEMENT.** (3) Class.

115-116. **HOME AND INDUSTRIAL STUDIES FOR THE ELEMENTARY SCHOOL.** (Not offered in 1939-1940) The emphasis is on fundamental values relative to health, economy, art, and social control. Fee, \$3. Prereq., 111, and 172 or 176, or with 111, and 172 or 176. (3)

210. **ADMINISTRATION OF THE ELEMENTARY SCHOOL.** (See School Administration and Supervision).

211. **THE ELEMENTARY CURRICULUM.** A study of the changing pattern of curriculum making in the elementary school: child growth and child development as important factors, the broadening social responsibility of the school, and the widening scope of education. Prereq., 6 hrs. education and Psych. 5. (3) Hampel.

212. **THE SUPERVISION OF ARITHMETIC.** The improvement of the course of study and classroom technique, theories of supervision, supervisory tools and techniques, textbook analysis and rating as a basis for selection, social utility, preparation of instructional material, evaluation of courses of study, and psychological analysis of skills. Prereq., 3 hrs. education and Psych. 5. (3) Benz.

HISTORY AND PHILOSOPHY

150. **HISTORY OF MODERN ELEMENTARY EDUCATION.** The development of elementary education with particular emphasis on the European background and on the social and philosophical forces which have conditioned elementary education in the United States. (3) Shoemaker.

243. **THE FEDERAL GOVERNMENT AND EDUCATION.** (See School Administration and Supervision).

250. **THE HISTORY OF EDUCATION.** Begins with a study of education among primitive peoples and ends with the scientific movements. Studies the agencies of education and social forces which have conditioned them during ancient and medieval times, with particular emphasis on the Greeks, Romans, Christians, Renaissance, protestant revolts, and science. Prereq., 6 hrs. education and Psych. 5. (3) Shoemaker.

251. **THE HISTORY OF EDUCATION.** Deals with the history of education in western Europe and the United States from about 1750 to the present. The evolution of state systems of schools and of various theories and practices of education are traced in some detail. Considerable emphasis is placed on the educational significance of autocratic and democratic movements, of the industrial revolution, and of nationalism. Prereq., 6 hrs. education and Psych. 5. (3) Shoemaker.

252. **HISTORY OF SECONDARY EDUCATION.** A study of the history of secondary education in western civilization. Special attention is given to England, France, Germany, and the United States. Prereq., 3 hrs. in history of education and Psych. 5. (2) Shoemaker.

253. **HISTORY OF EDUCATION IN OHIO.** A study of the application of the educational philosophies of the leading European educators to school procedure in Ohio. Some fifteen of the leaders in education in Ohio are made the subject of special study and research. Various educational movements in the state are studied in special reports and conferences. Prereq., 3 hrs. education and Psych. 5. (3) Wagner.

254. **COMPARATIVE EDUCATION.** A comparative study of the national school systems of Europe, with special emphasis on Russia, Germany, Den-

mark, England and France. Prereq., 9 hrs. education including 3 hrs. in history of education, and Psych. 5. (3-6) Shoemaker.

255. PHILOSOPHY OF EDUCATION. A summarizing course in which each student is helped consciously to formulate his philosophy of education. Prereq., 9 hrs. education. (3) Class.

256. PROGRESSIVE EDUCATION AT HOME AND ABROAD. A study of a movement in education which questions beliefs, judgments, and practices in organized education. Recent biological, psychological, and sociological findings are studied. Prereq., 12 hrs. education and Psych. 5. (3) Beechel.

257. CURRENT EDUCATIONAL LITERATURE. A comprehensive study of current contributions to education. Fee, \$3. Prereq., 6 hrs. education and Psych. 5. (3) Beechel.

258. THE EVOLUTION OF EDUCATIONAL THOUGHT. Deals solely with the educational writings of such theorists as Plato, Aristotle, Quintilian, Montaigne, Locke, Comenius, Rabelais, Rousseau, Pestalozzi, Froebel, Herbert and Dewey. Prereq., 6 hrs. education and Psych. 5. (3-5) Shoemaker.

259. HISTORY OF EDUCATION IN THE UNITED STATES. The European social, economic, and political influence on colonial life and education. The development and expansion of public education in the United States. Prereq., 3 hrs. education and Psych. 5. (3) Wagner, Shoemaker.

KINDERGARTEN-PRIMARY

1. PLAY AND PLAY MATERIALS. Play and its importance in child development, equipment and play materials, development of organized games. (2) Wilson.

2. LITERATURE FOR EARLY CHILDHOOD. Children's literature, source material, standards of selection, planning story groups for special occasions, dramatization, and experience in story telling. (3) Quick.

101. ACTIVITIES FOR EARLY CHILDHOOD. A study of criteria for selecting and evaluating activities to determine the outcomes of these activities in terms of child growth. Learning experiences are planned and carried out in the laboratory. 2 lec. and 2 lab. Fee, \$3. (3) Hoyle.

201. KINDERGARTEN-PRIMARY CURRICULUM. The principles and factors underlying the selection and organization of the content and the construction of a curriculum for kindergarten-primary grades. Some phases of curriculum construction. Prereq., 6 hrs. education and Psych. 3 or 5. (3) Quick.

202. SURVEY OF EARLY CHILDHOOD EDUCATION. The articulation of the nursery school, kindergarten, and primary grades; recent movements in the kindergarten-primary field, and investigation in a special field of interest. Prereq., 111, 201, and Psych. 3 or 5. (3) Quick.

203. SUPERVISION IN KINDERGARTEN-PRIMARY EDUCATION. Supervisory activities, the supervisor and teachers in service, observation of teaching,

and principles underlying the improvement of teaching. Not open to juniors. Prereq., 6 hrs. education and a major in elementary education. (3) Quick.

204. STUDIES IN EARLY CHILDHOOD EDUCATION. This course provides an opportunity for a critical review of trends, practices and methods in early childhood education and an evaluation in terms of progressive theory. Prereq., 6 hrs. education and a major in elementary education. (3) Quick.

LABORATORY SCHOOL SUPERVISION

271, 272. LABORATORY SCHOOL PROBLEMS. For critic teachers, demonstration teachers, directors of student teaching in teacher-training institutions, and for those desiring to prepare for such positions. Not open to juniors. Prereq., 6 hrs. education and Psych. 5. (2) Class.

273. SUPERVISION OF STUDENT TEACHING. Provides the novice supervising critic with experience in guiding the work of students who are doing student teaching. The regular supervising critic is directly in charge. Graduate students who have had successful teaching experience are admitted by permission. Prereq., 211 or 232 and with 271 or 272. (4-6) Sias, Beechel, and supervising critics.

RESEARCH AND SCIENTIFIC TECHNIQUES

281. EDUCATIONAL STATISTICS. The tabulation and graphical representation of frequency tables, measures of central tendency, percentiles and percentile curves, measures of variability, probability and the normal curve, and correlation. Practice in the use of statistical tables and calculating machines. Prereq., 6 hrs. education and Psych. 5. (3) Morton.

282. ADVANCED EDUCATIONAL STATISTICS. Non-linear relations, partial correlation, multiple correlation, regression, transmutation of scores, reliability, and the interpretation of correlation coefficients. Practice in the use of logarithms, statistical tables, and calculating machines. Prereq., 281. (3) Morton.

283. RESEARCH IN EDUCATIONAL STATISTICS. An advanced course in statistics dealing with the derivation of formulae, the analysis of relationships, and the interpretations of results. Prereq., 282 and permission. (2-6) Morton.

284. RESEARCH IN EDUCATION. Students are directed in the investigation of selected phases of educational theory and practice. Prereq., 9 hrs. education and Psych. 5. (2-6) Morton, McCracken, Sias, Beechel, Hansen, Benz, Class, Hampel, Shoemaker, Quick.

285. RESEARCH IN TEACHING ARITHMETIC. The work consists of reading, laboratory practice, or research and experimentation. Prereq., 9 hrs. education, 63g, and Psych. 5. (2-6) Morton, Benz.

286. RESEARCH IN TEACHING MATHEMATICS. Qualified graduate students are given an opportunity to work on special problems pertaining to the teaching of mathematics in the junior or senior high school. Credit to be assigned

is determined by the professor in charge. Prereq., 18 hrs. education and mathematics. (2-6) Morton, Benz.

287. RESEARCH IN BUSINESS TEACHING PROBLEMS. (Same as Sec. St. 287) Prereq., 20 hrs. commerce and permission. (2-8) The staff.

288. TECHNIQUES OF EDUCATIONAL RESEARCH. Designed to acquaint students with research techniques and materials in education. Reports of completed research are analyzed and evaluated. Practice is given in selecting and planning a research problem, in selecting the method of procedure, and in collecting and interpreting data. Prereq., 9 hrs. education and Psych. 5. (2) Benz.

391. SEMINAR IN BUSINESS TEACHING PROBLEMS. (Same as Sec. St. 391) Prereq., 20 hrs. commerce and permission. (2-10) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

SCHOOL ADMINISTRATION AND SUPERVISION

141. VISUAL EDUCATION. The value and relative effectiveness of visual aids as supplements for children and students in elementary and secondary schools. Practice in the use of representative equipment and materials in classroom procedures on various grade levels. Prereq., 3 hrs. education and Psych. 5. (2) Hansen.

143-144. SCHOOL LIBRARY ADMINISTRATION. The purpose of this course is to orientate the student in the school library by instruction in its organization, maintenance, planning, and technical work. This course is for the teacher-librarian and in no sense prepares the student for full time librarianship. Ed. 144 emphasizes children's literature, book and periodical evaluation. (3) Keating and staff.

203. SUPERVISION IN KINDERGARTEN-PRIMARY EDUCATION. (See Kindergarten-Primary).

210. ADMINISTRATION OF THE ELEMENTARY SCHOOL. A consideration of the relationship of administration to the program of the elementary school: planning together and extending the democratic vision of and participation in the elementary school. Prereq., 3 hrs. education and Psych. 5. (3) Hampel.

240. SCHOOL ADMINISTRATION. The place of the Federal government, state, county, and city in education; the superintendent, his powers and duties; and the organization and administration of the public school system. Prereq., 3 hrs. education and Psych. 5. (3) McCracken.

241. SCHOOL FINANCE. The place of school finance in the field of public finance, the sources of data, the sources of revenues, expenditures, economics, equalization, control of funds, and indebtedness. Prereq., 6 hrs. education including 3 hrs. of school administration, and Psych. 5. (3) Sias.

242. CHILD ACCOUNTING. (Not offered in 1939-1940) Records and reports which should be available for an intelligent understanding of the welfare of the child. Prereq., 3 hrs. education and Psych. 5. (2)

243. THE FEDERAL GOVERNMENT AND EDUCATION. Studies of the historical factors which have affected the attitude of American people toward government, traces the increasing activity in education of the Federal government, and suggests plans for the coordination of Federal, state, and local school units. Prereq., 6 hrs. education including 3 hrs. in history of education, and Psych. 5. (3) Shoemaker.

244. PROBLEMS IN SCHOOL ADMINISTRATION. A course treating intensively special problems in school administration. The problems are determined by the interests of the students. Prereq., 9 hrs. education including 230 or 240. (3) Sias.

245. THE STATE IN EDUCATION. The organization of state boards of education and departments of public instruction and the principles involved in their administration of state school problems. Prereq., 6 hrs. education and Psych. 5. (2) Sias.

246. SUPERVISION OF INSTRUCTION. The evolution of supervision, outstanding supervisory programs, principles underlying democratic supervision, techniques which promote the growth of the teacher in service. Prereq., 12 hrs. education including 201, 211, or 232. (3) Beechel.

246a. SUPERVISION OF INSTRUCTION, LABORATORY PROBLEMS. The course provides a study of actual problems in public school supervision, including the planning, developing, directing, and evaluating of instruction. Prereq., 246 and 255 or 256. Graduate students and seniors with successful teaching experience are admitted by permission. (2-6) Beechel.

247. THE IMPROVEMENT OF THE EXAMINATION. (Not offered in 1939-1940) Designed to improve both the objective and essay type of testing. Emphasis is placed upon principles and practice. Tests are constructed and criticized. Practice is given in interpreting test results. Prereq., 5 hrs. education including 113 or 131 and Psych. 5. (2) Class.

248. VOCATIONAL GUIDANCE. The various phases of educational and vocational guidance. Prereq., 6 hrs. education and Psych. 5. (2) Sias.

249. ART SUPERVISION AND CURRICULA. (Same as P.A.A. 249) Art objectives. Projects in teaching and supervision in various types of schools and suggestions for growth toward the ideal situation. Prereq., 160h. (2) Way.

250. SPECIAL PROBLEMS IN THE TEACHING OF HOME ECONOMICS. (Same as H. Ec. 250) Opportunity for individual selection of problems. Prereq., 168h and 18 hrs. home economics. (3) Patterson.

SECONDARY EDUCATION

130. PRINCIPLES OF SECONDARY EDUCATION. The general purpose of secondary education, relation to other levels of education, content and organization of curricula, and other topics. Not open to first semester sophomores. (3) Benz, Shoemaker.

131. **EDUCATIONAL TESTS AND MEASUREMENTS.** Standardized and informal new-type tests for the senior high school. Problems involved in the building, administering, scoring, and interpretation of results of tests. Fee, \$2. (2) Benz.

230. **HIGH SCHOOL ADMINISTRATION.** Problems of school and class organization, discipline, grading, curricula, guidance, and extra-class activities in the secondary school. Prereq., 3 hrs. education and Psych. 5. (3) Sias.

231. **THE JUNIOR HIGH SCHOOL.** The development, organization, and administration of the junior high school including objectives, curricula, guidance program, methods of instruction, and student activities. Prereq., 9 hrs. education and Psych. 5. (2) Sias.

232. **THE HIGH SCHOOL CURRICULUM.** The high school program of studies, the contributions of various subjects, integration, theories of curriculum construction, curriculum research, and desirable steps in the reorganization of the high school curriculum. Prereq., 6 hrs. education including 130. (2) Benz.

SPECIAL EDUCATION

221. **ORGANIZATION OF SPECIAL CLASSES.** Need of special education; history of the various classes for sightsaving, crippled, hard of hearing, mentally retarded, and defective in speech; selection and classification of children; cooperation with other departments; case studies and record taking; and direction and after-care of special class children. Prereq., 3 hrs. education and Psych. 5. (2) DeLand.

222. **DIAGNOSIS AND REMEDIAL INSTRUCTION IN ELEMENTARY SUBJECTS.** A laboratory course in methods of diagnosis and remedial treatment in fundamental school subjects for problem cases. Students are given opportunity to observe and work with problem children. Prereq., 3 hrs. education and Psych. 5. (2) DeLand.

223. **CURRICULUM FOR SPECIAL CLASSES.** Types of curricula for special education, units of work, materials, and subject matter suited to the mental ability and level, and methods of presentation and handling such units. Prereq., 3 hrs. education and Psych. 5. (3) DeLand.

STUDENT TEACHING AND OBSERVATION AND PARTICIPATION*

171. **OBSERVATION AND PARTICIPATION IN KINDERGARTEN-PRIMARY GRADES.** Prereq., with 172. (3) Sias and supervising critics.

172. **STUDENT TEACHING IN KINDERGARTEN-PRIMARY GRADES.** Fee, \$4. Prereq., with 171. (4) Sias and supervising critics.

173. **STUDENT TEACHING IN KINDERGARTEN-PRIMARY GRADES.** Students specializing in kindergarten do this two hours of student teaching in the first and second grades; those specializing in primary grades, in the kindergarten. Fee, \$2. Prereq., 172. (2) Sias and supervising critics.

*A complete statement of prerequisites is on page 75.

174. ADVANCED STUDENT TEACHING IN KINDERGARTEN-PRIMARY GRADES. Fee, \$1 for each credit hour. Prereq., 172, 173, and senior rank. (2-4) Sias and supervising critics.

175. OBSERVATION AND PARTICIPATION IN INTERMEDIATE GRADES. Prereq., with 176. (3) Sias and supervising critics.

176. STUDENT TEACHING IN INTERMEDIATE GRADES. Fee, \$4. Prereq., with 175. (4) Sias and supervising critics.

177. ADVANCED STUDENT TEACHING IN INTERMEDIATE GRADES. Fee, \$1 for each credit hour. Prereq., 176 and senior rank. (2-4) Sias and supervising critics.

178. STUDENT TEACHING IN SPECIAL EDUCATION. Fee, \$4. Prereq., with 175. (4) Sias, DeLand.

180. OBSERVATION AND PARTICIPATION IN HIGH SCHOOL, ACADEMIC SUBJECTS. Prereq., junior or senior rank. (3) Sias.

181. STUDENT TEACHING IN HIGH SCHOOL, ACADEMIC SUBJECTS. Fee, \$4. Prereq., 180 or with 180, and senior rank. (4) Sias.

182. OBSERVATION AND PARTICIPATION IN SPECIAL SUBJECTS. Prereq., junior or senior rank. (3) Sias.

Majors in art and music observe largely in the elementary field.

Majors in commerce and industrial arts observe in the junior and senior high schools.

Majors in home economics take the course in conjunction with Ed. 183.

Majors in physical welfare divide the observing time equally between the elementary grades and the high school.

183. STUDENT TEACHING IN SPECIAL SUBJECTS. The subjects are art, commerce, home economics, industrial arts, music, and physical welfare. Fee, \$1 for each credit hour. Prereq., 182 or with 182, and senior rank. (2-4) Sias.

273. SUPERVISION OF STUDENT TEACHING. (See Laboratory School Supervision)

TEACHING TECHNIQUES

Agriculture

168a. TEACHING OF AGRICULTURE. (Same as Agr. 168a) A consideration of aims and materials suitable for agricultural instruction in rural, village, and city schools. Use is made of field trips, laboratory, and lectures. Prereq., 8 hrs. agriculture and permission. (3) Copeland.

Botany

168b. TEACHING OF BOTANY. (Same as Bot. 168b) A review of the various methods now employed, followed by actual practice in field-work,

laboratory procedures, and lectures. Prereq., 1 yr. of botany or biology. (2) Matheny.

168g. TEACHING OF GENERAL SCIENCE. (Same as Bot. 168g) Practice in the construction of general science apparatus, and demonstrations of scientific laws through the utilization of common things near at hand. Also, a review of many science texts now in use. (2) Matheny.

Chemistry

168s. TEACHING OF CHEMISTRY AND LABORATORY PRACTICE. (Same as Chem. 168s) Instruction and practice in laboratory teaching and supervision. Prereq., permission. (2-4) Morton.

Commerce

161a. TEACHING OF BUSINESS SUBJECTS. (Same as Sec. St. 161a) Prereq., junior or senior rank. (2) Snook.

161b. TEACHING OF BOOKKEEPING. (Same as Acct. 161b) Prereq., Acct. 125. (2) Beckert.

161s. TEACHING OF SHORTHAND. (Same as Sec. St. 161s) Prereq., Sec. St. 151 or an eighty-word dictation test. (2) Miller.

161t. TEACHING OF TYPEWRITING. (Same as Sec. St. 161t) Prereq., Sec. St. 111. (2) Sponseller.

Dramatic Art

162h. TEACHING OF HIGH SCHOOL DRAMATICS. (Same as Dram. A. 162h) Sources of dramatic material on the high school level. Methods of casting, staging, and production from the point of view of the secondary school. Organization and function of the dramatic club. Prereq., 4 hrs. dramatic art, 12 hrs. English, or permission. (2) Dawes.

162s. TEACHING OF SPEECH IN THE GRADES. (Same as Dram. A. 162s) The various phases of speech pertaining to work in the elementary grades. Assembly programs, oral interpretation, intraclass and interclass debates, platform delivery, and educational dramatics. (2) Dawes.

162x. TEACHING OF SPEECH IN THE HIGH SCHOOL. (Same as Dram. A. 162x) Emphasis placed on indicated procedures in high school speech classes; a comprehensive survey of the literature and material adapted to speech training in high schools; and the correlation of speech work with extra-curricular activities such as debating, parliamentary procedure, panel discussions, and assembly programs. Prereq., Dram. A. 3, 15, 25, 102, or permission. (2) Staats.

Elementary Education

63a. TEACHING OF READING IN PRIMARY GRADES. Period of preparation for reading instruction, the initial period, the period of rapid growth in fundamental attitudes, habits and skills; scientific investigations and their results. (2) Hansen.

63b. TEACHING OF READING IN INTERMEDIATE GRADES. A study of the materials, methods and procedures, diagnostic and remedial work in the reading program for the intermediate grades of the elementary school. (2) Hansen.

63g. TEACHING OF ARITHMETIC IN INTERMEDIATE GRADES. Methods of presenting the subject matter of the arithmetic curriculum in grades 4, 5, and 6; results of experimental investigation; standardized tests and mechanical drill devices. (3) Morton, Benz.

63p. TEACHING OF ARITHMETIC IN PRIMARY GRADES. Methods of teaching the subject matter of the arithmetic curriculum in grades 1, 2, and 3; results of experimental studies and of recent developments in educational psychology. (3) Morton, Benz.

63s. TEACHING OF ARITHMETIC IN UPPER GRADES. Organization and methods of teaching the subject matter of the arithmetic curriculum in grades 7 and 8; the number system; arithmetic and life activities; arithmetic as a liberal education. (3) Morton.

64g. TEACHING OF LANGUAGE ARTS IN THE GRADES. A study of the expressive arts, creative expression, and the development of related skills. Prereq., Eng. 1 or 3. (2) Hampel.

169f. TEACHING OF GEOGRAPHY AND HISTORY IN ELEMENTARY GRADES. (Same as Geog. 169f) A study of the social environment, cultural problems, and human relationships with special emphasis upon history and geography. (3) Hampel.

English

164a. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL. (Same as Eng. 164a) A study of the content and presentation of poetry, drama, novel, and short story. Prereq., Eng. 2 or 4 and junior or senior rank. (2) Wray.

164b. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL. (Same as Eng. 164b) A study of the content and presentation of grammar and composition. Prereq., Eng. 2 or 4 and junior or senior rank. (2) Wray.

French

165f. TEACHING OF FRENCH. (Same as Fr. 165f) Prereq., Fr. 102. (2) Noss.

165o. TEACHING OF FRENCH AND ADVANCED FRENCH GRAMMAR. (Same as Fr. 165o) Prereq., Fr. 261 or, in unusual cases, special permission and Fr. 102. (2-3) Wilkinson.

Geography

169f. TEACHING OF GEOGRAPHY AND HISTORY IN ELEMENTARY GRADES. (Same as Geog. 169f) A study of the social environment, cultural problems, and human relationships with special emphasis upon history and geography. (3) Hampel.

169g. TEACHING OF GEOGRAPHY IN THE UPPER GRADES AND HIGH SCHOOL. (Same as Geog. 169g) Deals with the professionalized subject matter of geography in the upper grades and high school. (3) Cooper.

German

165g. TEACHING OF GERMAN. (Same as Ger. 165g) Recent literature on language methodology, phonetics, practice drill in pronunciation, as well as the development of lesson plans. Open only to fourth-year German students by special permission. (2) Hess.

Government — see History

History

169h. TEACHING OF HISTORY AND CIVICS IN JUNIOR AND SENIOR HIGH SCHOOLS. (Same as Hist. 169h) The development of history and civics as school subjects: objectives, instructional methods and materials, types of work, organization of the course of study, testing, and school problems related to teaching the subjects. (2) Smith.

169s. TEACHING OF SOCIAL SCIENCE. (Same as Soc. 169s) A study of objectives and other basic aspects of the social science curriculum; the construction of courses of study; an examination of classroom, laboratory, and field techniques; and a discussion of the professional relations of the teacher to school and community. (2) Jeddloh.

Home Economics

168h. TEACHING OF HOME ECONOMICS. (Same as H. Ec. 168h) Home living and homemaking organization and procedure in the school curriculum. Consideration of objectives and needs for various groups; methods of instruction for home and family living. Home projects, field trips, and observations of various classes including adult education groups. Prereq., 12 hrs. home economics. (3) Patterson.

Industrial Arts

160m. TEACHING OF INDUSTRIAL ARTS. (Same as Ind. A. 160m) This course deals with the organization and administration of shop laboratories, and the methods of presenting technical and related information. Special consideration is given to the grading and testing of manipulative work and class recitations. A simple method of accounting for laboratory materials and supplies is presented. Prereq., 6 hrs. industrial arts and permission. (3) Kinison.

Journalism

164j. TEACHING OF HIGH SCHOOL JOURNALISM. (Same as Jour. 164j) For those who wish to use the journalism motive in English composition classes, those who may direct the editing of high school publications, or those who plan to teach journalism. Fundamentals of newspaper writing and editing. Attention to preparation of school publicity copy for newspapers. (2) Lasher.

Latin

165r. TEACHING OF LATIN. (Same as Lat. 165r) Aims and methods of teaching Latin, the relation of Latin to English, determining the comparative merit of textbooks, and important reference material. Some study of important principles of the language. Prereq., Lat. 103 or permission. (2) Hill.

Mathematics

168m. TEACHING OF MATHEMATICS IN THE HIGH SCHOOL. (Same as Math. 168m) Prereq., Math. 6 and Psych. 5. (3)

Music

166b. TEACHING OF INSTRUMENTAL MUSIC. (Same as Mus. 166b) Methods or organizing and conducting classes in instrumental music, with a survey of materials. Problems of organizing bands and orchestras. (3) Ingerham.

166d. TEACHING OF DANCES AND GAMES. (Same as Mus. 166d) Dances and games for grades 1 to 8 and methods of presentation. (1) Danielson.

166f. TEACHING OF MUSIC IN FIRST SIX GRADES. (Same as Mus. 166f) (3) Danielson.

166g. TEACHING OF MUSIC IN INTERMEDIATE GRADES. (Same as Mus. 166g) Prereq., Mus. 2. (2) Danielson, Blayney.

166j. TEACHING OF MUSIC IN JUNIOR AND SENIOR HIGH SCHOOL. (Same as Mus. 166j) (3) Danielson.

166k. TEACHING OF MUSIC IN KINDERGARTEN-PRIMARY GRADES. (Same as Mus. 166k) Prereq., Mus. 2. (2) Danielson, Blayney.

166p. TEACHING OF CLASS PIANO. (Same as Mus. 166p) Class instruction in piano covering the first two years of work outlined by the Oxford Piano Course. Participation in classroom teaching and survey of teaching material. Prereq., the equivalent of 2 hrs. in piano. (1) Witham.

166s. TEACHING OF CLASS STRINGED INSTRUMENTS. (Same as Mus. 166s) Elementary class instruction in instruments of the string choir in a situation similar to that met in schools. No previous knowledge of the stringed instruments is required. Participation in the piano class work in training school. (1) Thackrey.

166w. TEACHING OF CLASS WIND INSTRUMENTS. (Same as Mus. 166w) See Ed. 166s. (1) Thackrey.

Painting and Allied Arts

60c. TEACHING OF DESIGN FOR EARLY CHILDHOOD. (Same as P.A.A. 60c) 1 lec. and 1 lab. Prereq., P.A.A. 3. (1) Seabaugh.

60g. TEACHING OF DESIGN FOR INTERMEDIATE AND HIGHER GRADES. (Same as P.A.A. 60g) 1 lec. and 1 lab. Prereq., P.A.A. 3. (1) Seabaugh.

160h. TEACHING OF THE SPACE ARTS. (Same as P.A.A. 160h) Prereq., P.A.A. 103, 115, and 117. (2) Way.

Physical Welfare

167a. TEACHING OF COACHING—WOMEN. (Same as P.W. 167a) Theory and practice of coaching field hockey and basketball. Fee, \$1. (2) Hatcher.

167b. TEACHING OF COACHING—WOMEN. (Same as P.W. 167b) Theory and practice of coaching volley-ball, soccer, baseball, track and field activities. Fee, \$1. (2) LaTourrette.

167d. COACHING OF BASEBALL. (Same as P.W. 167d) Fee, \$1. (1) Peden.

167e. COACHING OF BASKETBALL. (Same as P.W. 167e) Fee, \$1. (2) Trautwein.

167f. COACHING OF FOOTBALL. (Same as P.W. 167f) Fee, \$1. Prereq., junior rank. (2) Peden.

167h. TEACHING OF HEALTH. (Same as P.W. 167h) Instruction, principles, and curricula used in presenting health information to children of the different school levels. Prereq., P.W. 22. (2) Trepp.

167p. TEACHING OF PHYSICAL WELFARE. (Same as P.W. 167p) Physical education for elementary and secondary schools. Not required of majors. (1) Rhoads.

167s. TEACHING OF SWIMMING—WOMEN. (Same as P.W. 167s) (2) Spencer.

167t. COACHING OF TRACK. (Same as P.W. 167t) Coaching of track and field athletics. Fee, \$1. (1) Herbert.

Physics

168p. TEACHING OF PHYSICS. (Same as Phys. 168p) (Summer session only) This course aims to give the teacher or prospective teacher of elementary physics a working knowledge of the teaching of physics by defining the aims and methods of the subject, by practical suggestions as to subject matter, and by particular reference to the development method of presenting the material. Prereq., one course in physics. (2) Green.

Sociology — see History

Spanish

165s. TEACHING OF SPANISH. (Same as Sp. 165s) This course deals with a study of classroom procedure and modern language bibliography, selection of suitable texts, and the development of Spanish civilization. Prereq., Sp. 102. (2) Whitehouse, Ondis.

Zoology

168z. TEACHING OF ZOOLOGY. (Same as Zool. 168z) The following topics are among those considered: aims and objectives of zoology courses; survey of available texts, manuals, and reference books; various methods of instruction; sources of laboratory equipment and supplies; special aids in instruction; examinations; controversial topics in biology. The student is given opportunity to examine and use the books, materials, and equipment discussed. Prereq., Zool. 4 and an additional laboratory course in zoology. (2) Stehr.

ELECTRICAL ENGINEERING

Professor Young; Associate Professors McClure, Green;
Assistant Professor Roseberry; Instructors Lausche, Bundy

1. ENGINEERING ORIENTATION. A preview of engineering curricula and a consideration of engineering as a profession. The legal, social, and political aspects of engineering, together with the personal and social elements involved, are reviewed. (1) Young.

101. PRINCIPLES OF RADIO. Preliminary study of electrical circuits, resonance and tuning applications, the vacuum tube, amplifier circuits, the complete receiver, radio transmitters, antennae and transmission lines. Laboratory work parallels the theory and includes such experiments as measurement of coils and condensers, use of frequency meters, assembling and aligning of receivers, tuning and operation of transmitters, and elementary measurement of radio field intensity. 2 lec. and 2 lab. Fee, \$3. Prereq., Math. 5 and 6. (3) Green.

103. PRACTICAL ELECTRICITY. Elementary principles of electricity. Practical working principles of batteries, generators, motors, heaters, meters, fuses, magnets, transformers, radio, and telephone. Safety rules and regulations. The laboratory gives practice in wiring, soldering, and household appliance repairing. 1 lec. and 2 lab. Fee, \$2. (2) Bundy.

106. COMMERCIAL RADIO. Detailed study of the principles, construction, and operation of radio transmitters and receivers, including both short wave amateur type and the commercial broadcast station. Students practice adjusting and operating radiophone transmitters. Inspection trip to some commercial station. 1 lec. and 2 lab. Fee, \$2. Prereq., 101 or permission. (2) Green.

125. ACOUSTICS. Principles of sound generation and propagation in free space and in enclosures, methods of sound measurement, characteristics of speakers, microphones and receivers, design of horns, acoustics of auditoriums, theaters, and broadcasting studios, public address systems. Laboratory includes measurements with cathode ray oscillograph, sound intensity meters, standard oscillators, and acoustic bridges. 2 lec. and 2 lab. Fee, \$3. Prereq., Math. 118 and Phys. 113, 114. (3) Green.

127. ELECTRICAL ENGINEERING. A study of direct and alternating current motors and generators, starting devices, electric wiring, distribution and transmission systems, transformers, illumination systems, meters, and switching. For nonelectrical students. 2 lec. and 2 lab. Fee, \$3. Prereq., Phys. 3, 4 or 113, 114. (3) Green.

133. ILLUMINATION ENGINEERING. Principles of light and radiation, various light sources, their characteristics and efficiencies, principles and practice of photometry, design of illumination for various types of homes and industries. Laboratory gives practice in illumination measurements. 1 lec. and 2 lab. Fee, \$2. Prereq., Math. 118 and Phys. 114. (2) Roseberry.

137. ELECTRON TUBES IN INDUSTRY. Industrial applications of thermionic tubes in devices such as the grid-controlled rectifier, stroboscope, time delay relay, telemeter, voltage regulator, photo-electric counter and traffic controller. Prereq., 101 or 106. (3) Green.

143-144. ELECTRICAL ENGINEERING. Direct current electrical and magnetic circuit analysis, D. C. machine characteristics and operation, A. C. circuits including complex circuit analysis and wave analysis. Prereq., Math. 118 and Phys. 113, 114. (4) McClure.

145-146. DYNAMO AND MEASUREMENTS LABORATORY. Electric and magnetic measurements and the characteristics of D. C. machinery. 6 lab. Fee, \$3. Prereq., with 143-144. (3) McClure and assistants.

149-150. ELECTRICAL MEASUREMENTS THEORY. Fundamental theory of the potentiometer, galvanometer, magnetic oscillograph, permeameter, methods of calibrating ammeters, voltmeters, wattmeters, watt-hour meters, both D. C. and A. C. instruments. Methods of measuring resistance, inductance, capacitance; a study of transients and wave analysis, resonance phenomena. Prereq., with 143-144. (2) McClure.

202. APPLIED MECHANICS (DYNAMICS). A course in engineering mechanics treating the general subjects of kinematics, dynamics, work and energy. Prereq., Math. 118. (2) Bundy, Wilsey.

203-204. COMMUNICATION ENGINEERING AND ADVANCED CIRCUIT ANALYSIS. A study of the fundamentals of communication engineering at radio and telephone frequencies. Network theorems, resonance, transmission lines, filters, and coupled circuits. Impedance matching, vacuum tubes, amplifiers, modulators, radiation and applications to radio and telephone apparatus. Laboratory follows theory closely. 3 lec. and 2 lab. Fee, \$4. Prereq., 144. (4) Green.

211-212. ADVANCED RADIO LABORATORY. Special problems of current interest in the field of radio engineering. 2-4 lab. Fee, \$1 for each credit hour. Prereq., 101 or 203. (1-2) Green.

229. ENGINEERING THERMODYNAMICS. Energy equations, entropy, properties and thermodynamic processes of gases, compressed air engines, the Otto and Diesel cycles and engines, the properties of steam engine and vapor cycles, steam engines and turbines, principles of refrigeration. Prereq., Math. 118 and Phys. 113, 114. (3) Lausche.

230. HEAT POWER ENGINEERING. Solid, liquid, and gaseous fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, preheaters, superheaters, stacks, forced and induced draft, boiler feed pumps, steam engines and turbines, condensers, gas and oil engines. Prereq., 229 or permission, and Math. 118. (3) Lausche.

232. HEAT POWER LABORATORY. Calibration of testing instruments and the proximate analysis of coal. Tests on the steam engine, turbine, boilers and feed pumps at the heating plant. 2 lab. Fee, \$1. Prereq., with 230. (1) Lausche.

235. ELECTRICAL TRANSMISSION OF POWER. Economic and electrical principles of transmission of electrical power, line equations and calculations, hyperbolic solution of long lines, insulation and protection against transients, mechanical principles and practical line construction. Prereq., 144. (3) Green.

243-244. ELECTRICAL ENGINEERING. Characteristics and performance of A. C. machines including static transformers, synchronous generators, synchronous and asynchronous motors, advanced circuit analysis. Prereq., 144 and 146. (4) Bundy.

245-246. ELECTRICAL ENGINEERING LABORATORY. A. C. circuit measurements, transformer grouping and testing, measurement of and predetermination of characteristics of A. C. machinery. 4 lab. Fee, \$2. Prereq., with 243-244. (2) McClure and assistants.

248. ELECTRICAL DESIGNS. Fundamental electric machine design relations. After a preliminary study, the student designs a direct current generator, a transformer, and an induction motor and predetermines the performance. Prereq., 243. (3) Green.

271, 272. ENGINEERING ELECTRONICS. A comprehensive theoretical treatment of the fundamentals of electronics and of the general properties of electronic tubes with application to engineering. Prereq., Math 118 and Phys. 114. (3) Green.

291-292. STUDIES IN ELECTRICAL ENGINEERING. Discussions of recent developments in electrical engineering and allied fields, abstracts of current articles. Problems in design. Prereq., 15 hrs. (1) Young.

301-302. ADVANCED ACOUSTICS. A study of acoustics based on the fundamental dynamical theory of sound. General equations of sound propagation are developed and applications made to engineering practice. Prereq., Math. 118 and Phys. 113, 114. (2) Green.

303. TRANSMISSION NETWORKS. An advanced theoretical study of communication circuits including general network theorems, transition and transmission losses, corrective networks, wave filters, superimposed circuits, repeaters and circuit efficiencies. Prereq., 204, 244, 246, and Math. 215. (3) Green.

310. ELECTRICAL STATION DESIGN. The application of economic principles to the problems of electric generating station design, selection of apparatus,

balancing initial and subsequent costs, interrelation of the mechanical and electrical elements of design. Power plant visitation and reports. Prereq., 229, 230, and 244. (3)

391. ADVANCED SEMINAR IN ELECTRICAL ENGINEERING. Prereq., 15 hrs. (1-2) The staff.

395. THESIS. Prereq., permission. (6) The staff.

ENGLISH

Professors Wilson, Mackinnon, Wray, Foster, Heidler, Caskey; Associate Professors Kahler, Peckham, McQuiston; Assistant Professor Lash; Instructors Emery, Roberts, Kirchner, Kendall, Harrison, Davidson

The major requirement in English for the A. B. degree includes: Eng. 3-4, 101, 102 (12); American literature (3); and (11) from three of the following periods: Early and Middle English (2-3), sixteenth and seventeenth centuries (3-6), eighteenth century (2-4), nineteenth and twentieth centuries (3-6), and electives.

1-2. ENGLISH COMPOSITION. Eng. 1 places emphasis upon the grammatical elements of English composition. It is designed for students whose grades in proficiency tests indicate a need for additional drill in spelling, punctuation, and sentence structure. Eng. 2 is devoted to a thorough study of the structure of expository composition with special attention to oral English. (3) The staff.

3-4. ENGLISH COMPOSITION. A course in the fundamentals of composition, the structure of the paragraph, and the writing of exposition. Students who make unusually high grades in the proficiency tests are excused from Eng. 3 and allowed to enter Eng. 4. Eng. 4 places emphasis on the study of models of argumentation, description, and narration and gives special attention to oral English. (3) The staff.

10. JUVENILE LITERATURE. A study of myths, fables, fairy stories, folklore, and one epic. Language work. Prereq., 1 or 3. (2) Kahler.

101, 102. SOPHOMORE ENGLISH LITERATURE. The course is devoted to a study of the works of eight or ten of the chief English authors from the beginnings of English literature to the middle of the eighteenth century. Eng. 102 begins with the middle of the eighteenth century and continues the study to the present. Prereq., 2 or 4. (3) The staff.

111. THE CHIEF AMERICAN WRITERS. A study of representative material, prose and poetry, selected from Franklin, Freneau, Irving, Cooper, Bryant, Emerson, Thoreau, Hawthorne, Whittier. Prereq., 2 or 4. (3) The staff.

112. THE CHIEF AMERICAN WRITERS. A continuation of Eng. 111. Emphasis is placed upon selected prose and poetry from Poe, Holmes, Longfellow, Lowell, Whitman, Mark Twain, Henry Adams, Lanier, William James. Prereq., 2 or 4. (3) The staff.

114. ENGINEERING ENGLISH. An application of the principles of English to the technical exposition of engineering processes, problems, reports, abstracts; practice in writing business letters and letters of application. Prereq., 2 or 4. (2) Harrison.

130. ENGLISH PROSE OF THE NINETEENTH CENTURY. Prereq., 102. (3) The staff.

135. THE ENGLISH BIBLE. A study of the early narratives and prophecies of the Old Testament as masterpieces not only of world literature but of English literature. Prereq., 2 or 4. (2) Foster.

136. THE ENGLISH BIBLE. The King James version of the later prophetic and poetic books of the Old Testament, of the proverbs and essays, and of the sayings and parables of Jesus are read as living literature. Prereq., 2 or 4. (2) Foster.

141. EUROPEAN DRAMA. Readings in English of typical plays by Sophocles, Plautus, Marlowe, Jonson, Moliere, Farquhar, Goldsmith, Sheridan, and Ibsen. Prereq., 2 or 4. (2) Peckham.

143, 144. COMPARATIVE LITERATURE. A course introducing the student to the most significant productions of Greece, Rome, Italy, Spain, France, Germany, and England. Whenever feasible, lectures on a foreign literature are delivered by a professor of that literature. Prereq., 2 or 4. (3) Heidler.

150. THE SHORT STORY. A historical and critical study of the short story. Lectures and extensive reading in short story classics. Prereq., 2 or 4. (2) McQuiston.

164a. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL. (Same as Ed. 164a) A study of the content and presentation of poetry, drama, novel, and short story. Prereq., 2 or 4 and junior or senior rank. (2) Wray.

164b. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL. (Same as Ed. 164b) A study of the content and presentation of grammar and composition. Prereq., 2 or 4 and junior or senior rank. (2) Wray.

171. SOPHOMORE EXPOSITION. A course designed to offer practical experience in the writing of essays and reviews. Frequent writing by the student is supplemented by the study of meritorious examples from experienced writers. Prereq., 2 or 4. (3) Heidler.

175. CREATIVE WRITING. The work is adapted to the individual and instruction is largely by conference. Prereq., 2 or 4 and junior or senior rank. (2-4) Mackinnon.

201, 202. SHAKESPEARE. Selected comedies, tragedies, and histories. Eng. 201 emphasizes the comedies; Eng. 202, the tragedies. Prereq., 12 hrs. (3) McQuiston.

203. SIXTEENTH CENTURY LITERATURE. A study of the chief poets and prose writers. Prereq., 12 hrs. (3) Wray.

204. ELIZABETHAN DRAMA, 1550-1642. A study of the English drama

from 1550 to 1642, thus including the predecessors, the contemporaries, and the immediate followers of Shakespeare. Prereq., 12 hrs. (3)

205. SEVENTEENTH CENTURY LITERATURE. (Exclusive of Milton and the drama) A study of the more significant writers of prose and poetry together with the main cultural and historical currents of the period. Prereq., 12 hrs. (2) Roberts.

207. MILTON. (1940-1941) Prereq., 12 hrs. (2) Foster.

213. ENGLISH PROSE FICTION. A study of the development of the English novel through different periods. Prereq., 12 hrs. (3) Mackinnon.

214. AMERICAN PROSE FICTION. The development of the American novel from the colonial period to the present, with major emphasis upon late eighteenth century and nineteenth century productions. Prereq., 12 hrs. (3) Heidler.

215, 216. EIGHTEENTH CENTURY LITERATURE. Eng. 215 presents the prose and poetry of the age of Pope; Eng. 216, from Johnson to the close of the century. Eng. 216 is not open to those who have had Eng. 218. Prereq., 12 hrs. (2) Wilson.

218. EIGHTEENTH CENTURY ROMANTICISM. (1940-1941) The course traces the beginnings of the movement with the Spenserians, Miltonic School, Chatterton, Ossian, the Gothic Romance and others. Not open to those who have had Eng. 216. Prereq., 12 hrs. (2) Heidler.

221. WORDSWORTH AND COLERIDGE. A study of the principal poems of both poets and a less intensive survey of the rest of their work. Consideration of the poetical and philosophical theories of the two poets. Prereq., 12 hrs. (2) McQuiston.

224. CONTINENTAL NOVEL. Reading of European novels of the nineteenth century, chiefly, with emphasis on the Russian, French, German, and Scandinavian. Prereq., 12 hrs. (2) Lash.

225. RECENT BRITISH AND AMERICAN POETRY. A careful study of ten or twelve authors who have made distinctive contributions to the poetry of England and America. Prereq., 12 hrs. (3) Foster.

226. AMERICAN LITERATURE. A study of the social and cultural backgrounds of American literature. Prereq., 12 hrs. (3) Foster.

231. LATER AMERICAN LIFE AND LITERATURE. A study of the more important currents in American life and thought which have influenced the national literature since the Civil War. Prereq., 3 hrs. of English or American literature. (2) McQuiston.

234. MODERN CONTINENTAL DRAMA. A study of types and tendencies in European continental drama since Ibsen. A reading and discussion of modern and contemporary plays. Among the dramatists considered are Strindberg, Brieux, Hauptmann, Maeterlinck, Rostand, Molnar, Chekov, Andreyev, Capek, and Vildrac. Prereq., 12 hrs. (2) Peckham.

236. MODERN DRAMA IN ENGLISH. (1940-1941) This course alternates with Eng. 234. A study of types and tendencies in British, Irish, and American drama since 1880. A reading and discussion of modern and contemporary plays. Among the dramatists considered are Jones, Pinero, Wilde, Galsworthy, O'Neill, Howard, Rice, and Green. Prereq., 12 hrs. (2) Peckham.

240. BYRON, SHELLEY, AND KEATS. A study of the most important poems and of the relation of the poets to their age. Prereq., 12 hrs. (2) Peckham.

242. HISTORY OF LITERARY CRITICISM. (1940-1941) A rapid study of the development of critical theories from ancient Greek times to the mid-nineteenth century. Prereq., 12 hrs. (2) Wilson.

245. TENNYSON AND BROWNING. A study of the two major Victorian poets, their backgrounds, and some of their most representative poems. Prereq., 12 hrs. (3) Peckham.

250. BOOKS OF THE SEASON. An extensive reading course in the best books of the season. Prereq., 12 hrs. (2-4) Mackinnon.

254. LITERARY BIOGRAPHY. A study of some of the important literary biographies and a consideration of tendencies in current biographical literature. Prereq., 12 hrs. (2) Wilson.

258. MIDDLE ENGLISH. A course designed to acquaint the student with the literature of the Middle Ages (exclusive of Chaucer) together with the changing language. Prereq., 12 hrs. (3) Wray.

261. ENGLISH AND AMERICAN POPULAR BALLADS. Ballads, folk songs, and carols are studied not only with reference to their origin, nature, and transmission, but in connection with folk literature generally, with reference to their history and cultural significance. Prereq., 12 hrs. (2) Kirchner.

270. SPENSER. (1940-1941) A study of the poems of Spenser with emphasis on *The Faerie Queene*. Prereq., 12 hrs. (2) Wray.

271. DANTE (IN ENGLISH). Prereq., 12 hrs. (2) Wilson.

273. CHAUCER. (1940-1941) A careful study of the life and poetry of Chaucer by means of lectures, translations, and seminar reports. Prereq., 12 hrs. (3) Heidler.

275. ANGLO-SAXON. (1940-1941) An introductory course in the language and literature of early English. Prereq., 12 hrs. (2-3 as scheduled) McQuiston.

276. BEOWULF. (1940-1941) Reading and interpretation of the poem and consideration of its genesis, epic characteristics, and literary qualities. Prereq., 275. (2-3 as scheduled) McQuiston.

277. THESIS WRITING. A course for graduate students in all departments with special attention to the form and organization of research papers in the field of interest. Prereq., 12 hrs. (1) Caskey.

391. SEMINAR IN ENGLISH. An introduction to literary research. Stu-

dents are given an introduction to bibliography and methods of research in literary history. Minor problems are assigned. Prereq., 18 hrs. and permission. (2) Caskey.

395. THESIS. Prereq., permission. (4-8) The staff.

FINANCE

(See Commerce)

FRENCH

(See Romance Languages)

GEOGRAPHY AND GEOLOGY

Professor Cooper; Associate Professor Dow; Instructor Potter

GEOGRAPHY

The major requirement in geography for the A. B. degree is 30 semester hours in approved electives, including Geol. 1-2 or 125, 126.

3, 4. PRINCIPLES OF GEOGRAPHY. Elementary courses in college geography emphasizing the causal relationships between life activities and their physical surroundings. (3) Cooper, Dow.

5. COMMERCIAL AND INDUSTRIAL GEOGRAPHY. A study of the world's major products and their distribution and consumption. Not open to students who have had Ec. 15. (3) Dow, Potter.

102. GEOGRAPHY OF NORTH AMERICA. The course develops in detail the geography of the natural resources of the continent and the geographic environment which influences them. (3) Cooper.

105. GEOGRAPHY OF LATIN AMERICA. See Geog. 102 for description. (3) Cooper.

108. GEOGRAPHY OF EUROPE. See Geog. 102 for description. (3) Dow.

112. GEOGRAPHY OF ASIA AND ITS ISLANDS. See Geog. 102 for description. (3) Dow.

115. GEOGRAPHY OF AFRICA AND AUSTRALIA. See Geog. 102 for description. (2) Dow.

131. GEOGRAPHY OF OHIO. The geography of Ohio is developed from the regional point of view and by means of the problem method. (2) Cooper.

132. CONSERVATION OF NATURAL RESOURCES. A study of the vital problems of the conservation of soils, minerals, forests, wild life, and inland waters. (2) Dow.

145. GEOGRAPHIC INFLUENCES IN AMERICAN HISTORY. A course developed to show the importance of geographic factors in the growth of our nation. (3) Dow.

150. GEOGRAPHY AND ENVIRONMENT. Advanced principles of geography. A course in the aspects of geography which have to do with the adjustments of man to his natural environment throughout the world. (3) Cooper.

169f. TEACHING OF GEOGRAPHY AND HISTORY IN ELEMENTARY GRADES. (Same as Ed. 169f) A study of the social environment, cultural problems, and human relationships with special emphasis upon history and geography. (3) Hampel.

169g. TEACHING OF GEOGRAPHY IN THE UPPER GRADES AND HIGH SCHOOL. (Same as Ed. 169g) Deals with the professionalized subject matter of geography in the upper grades and high school. (3) Cooper.

201. WEATHER AND CLIMATE. The atmosphere and its processes. Weather forecasting and the causes and distribution of climates. 3 lec. and 1 lab. Fee, \$3. Prereq., 6 hrs. (3) Dow.

210. POLITICAL GEOGRAPHY. A study of the geography of boundry lines, of colonial policies, and of the geographic principles which influence international relations and problems. Prereq., 6 hrs. (3) Potter.

211, 212. FIELD GEOGRAPHY. (Post session only) Field trips consisting of three days lecture on the campus and fifteen days of field work by bus. Inter-relationships between man and his natural environment studied through actual field observation and contact. Geog. 211 goes through New England and Canada and Geog. 212 through Michigan, Wisconsin, and Minnesota. Geog. 211 will be offered in the post session of 1939. Prereq., 6 hrs. (3) Dow, Potter.

215. CARTOGRAPHY AND GRAPHICS. The elementary principles of map drawing and graph making. Prereq., 12 hrs. (1-2) The staff.

381. RESEARCH IN GEOGRAPHY. Prereq., 15 hrs. (1-2) The staff.

GEOLOGY

1-2. ELEMENTARY GEOLOGY. An introductory laboratory course in earth science. The earth's features are studied with reference to their origin and significance and emphasis is given to physiographic changes now in progress. This course is a desirable prerequisite for all courses in geography and geology except Geol. 125. 2 lec., 2 lab., and field trips. Fee, \$3. (3) Dow, Potter.

125. PHYSICAL GEOLOGY. A survey of physical geology for upperclassmen who have not taken Geol. 1-2. The course is concerned with the study of geological features and the agencies that produce them. 2 lec., 2 lab., and field trips. Fee, \$3. (3) Dow.

126. HISTORICAL GEOLOGY. A history of the earth with special emphasis on the evolution of the North American continent and the development of life.

Hypotheses for the origin of the earth are considered. 2 lec., 2 lab., and field trips. Fee, \$3. Prereq., 2 or 125. (3) Potter.

127. ROCKS AND MINERALS. An elementary course in rocks and minerals with emphasis on identification, physical properties, crystal forms, and classification. 2 lec. and 2 lab. Fee, \$3. Prereq., 2 or 125. (3) Dow.

133. ENGINEERING GEOLOGY. A study of the principles, methods, and materials of geology of value to engineers. 2 lec., 2 lab., and field trips. Fee, \$3. (3) Potter.

203. ECONOMIC GEOLOGY. The study of the metallic and non-metallic mineral resources of the earth's crust which are of use to mankind. 2 lec. and 2 lab. Fee, \$3. Prereq., 127. (3) Potter.

240. PALEONTOLOGY. A study of fossils with emphasis on the invertebrates, their morphology, classification, and geologic and geographic distribution. 2 lec., 4 lab., and field trips. Fee, \$4. Prereq., 126 or Zool. 226. (4) Potter.

GERMAN

Professor Hess; Assistant Professor Krauss; Instructor Mueller

1-2. BEGINNING GERMAN. The course includes instruction in the fundamental grammatical principles, drill in pronunciation, conversation, and the reading of prose. (4) The staff.

101-102. INTERMEDIATE GERMAN. The course includes the study of various short poems and stories of literary excellence, grammatical review, and work in oral and written composition. The drama, especially *Wilhelm Tell*, is included in Ger. 102. Prereq., 2 or 2 yrs. high school German. (4) The staff.

105, 106. SCIENTIFIC GERMAN. A reading course designed to give the student familiarity with German scientific terms. Prereq., 102, or 101 with a grade of A or B. (2) Mueller.

109-110. GERMAN GRAMMAR AND COMPOSITION. Prereq., 102 or 3 yrs. high school German. (2) Hess.

121, 122. GERMANY AND THE GERMANS. The institutions, customs, and legends of the German people are studied. A course in modern German prose. Prereq., 102, or 101 with a grade of A, or 3 yrs. high school German. (2) Hess.

165g. TEACHING OF GERMAN. (Same as Ed. 165g) Recent literature on language methodology, phonetics, practical drill in pronunciation, as well as the development of lesson plans. Open only to fourth-year German students by special permission. (2) Hess.

201, 202. SURVEY OF GERMAN LITERATURE. (1941-1942) Prereq., 102. (3) Hess.

211, 212. MODERN GERMAN DRAMA. A study of the German drama of the nineteenth century and the reading of the more important plays connected with the various movements. Prereq., 102 or 4 yrs. high school German. (3) Hess.

213. CLASSICAL GERMAN DRAMA. (1940-1941) Plays of Lessing, Goethe, and Schiller are studied in relation to German classicism. Prereq., 102. (3) Hess.

214. GOETHE'S FAUST. (1940-1941) A detailed study of Goethe's greatest contribution to modern thought and life. Prereq., 213. (3) Hess.

219, 220. THE GERMAN SHORT STORY. A rapid reading course designed to acquaint the student with this phase of modern German literature. Prereq., 102. (2) Krauss.

221. CONTEMPORARY GERMAN SHORT STORY. (Summer session only) Rapid reading of representative stories from Naturalism to the New Realism with brief discussion of the various literary movements. The course may be taken either before or after Ger. 219, 220 since it deals chiefly with the *Novelle* of the twentieth century. Prereq., 102. (2) Krauss.

231, 232. WRITING AND SPEAKING GERMAN. A course in oral and written composition for students desiring to teach or speak German. Prereq., 110. (2) Mueller.

301. HISTORY OF THE GERMAN LANGUAGE. An introduction to the study of Germanic philology. Prereq., 10 hrs. beyond 102. (2) Hess, Krauss, Mueller.

310. GOTHIC. A study of the phonetics, morphology, and syntax of the Gothic language, accompanied by the reading and translating of portions of *Ulfilas' Gothic Bible*. Prereq., 10 hrs. beyond 102. (3) Hess, Krauss, Mueller.

395. THESIS. Prereq., permission. (4-8) The staff.

GOVERNMENT

Professors Smith, Hoover, Volwiler;
Associate Professors Jones, Morrison

1, 2. AMERICAN GOVERNMENT. The American political system, including national, state, and local governments. (3) Smith, Hoover, Morrison.

101, 102. COMPARATIVE GOVERNMENT. A comparison of the American and European systems of government, including organization, procedure, popular representation, and effect upon social and economic conditions. (3) Smith.

105. CURRENT POLITICAL AND SOCIAL PROBLEMS. A consideration of current problems of a political, social, and economic nature to develop an understanding of what is happening and to establish the habit of reading regularly newspapers and periodicals. (2) Smith.

202. CONSTITUTIONAL LAW. Prereq., 6 hrs. government or history. (2) Hoover.

203. MUNICIPAL GOVERNMENT. The development, organization, and politics of city government; municipal administration, including finance, health, utility regulation, city planning, and municipal ownership. Prereq., 6 hrs. (2-3 as scheduled) Smith.

205. AMERICAN POLITICAL PARTIES. The origin and growth of national parties, influence of economic and social conditions on party policy, and recent developments. Prereq., 6 hrs. (2-3 as scheduled) Hoover.

216. INTERNATIONAL RELATIONS. The foundations of international relations, including nationalism, imperialism, racial and economic factors; the practices of diplomacy; international organization; foreign policies of the great powers; efforts to preserve peace; and regional and world politics. Prereq., 6 hrs. (2-3 as scheduled) Smith.

223, 224. INTERNATIONAL LAW. Prereq., 6 hrs. (2) Hoover.

229. CURRENT INTERNATIONAL PROBLEMS. An introduction to international relations through world problems of current interest. Prereq., 6 hrs. government or history. (3) Volwiler.

231, 232. EUROPEAN GOVERNMENTS. The government and politics of the major European countries, with emphasis on the basic principles and theories. Prereq., 6 hrs. government or history. (3) Jones.

241. AMERICAN FOREIGN POLICY. The diplomatic history of the United States since independence, with an introduction to the Department of State and general diplomatic practices. Prereq., 6 hrs. government or history. (3) Morrison.

243. AMERICAN POLITICAL THOUGHT. Early political ideas underlying the political institutions in the United States, and the development of political thought to the present. Prereq., 6 hrs. (2-3 as scheduled) Smith.

248. INTRODUCTION TO PUBLIC ADMINISTRATION. The place of administration in modern government, problems of organization and control, determination of administrative areas, personnel management, development of bureaucracy, public budgeting, politics and administration in relation to government planning. Prereq., 6 hrs. (2-3 as scheduled) Smith.

301. PROBLEMS IN GOVERNMENT. Prereq., 15 hrs. government or history. (1-6) The staff.

391. SEMINAR IN GOVERNMENT. Prereq., 15 hrs. government or history. (1-6) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

GREEK

(See Classical Languages)

HEALTH

(See Physical Welfare)

HISTORY

Professors Hoover, Smith, Volwiler;
Associate Professors Jones, Morrison, Johnston;
Assistant Professor Field; Instructors Richardson, Brokaw

1, 2. A SURVEY OF EUROPEAN CIVILIZATION. The development of European civilization from the decline of the Roman Empire to the present time with a consideration of its economic, social, intellectual, cultural, and political phases. (3) Volwiler, Jones, Richardson.

101. ENGLISH HISTORY TO 1485. (3) Richardson.

102. ENGLISH HISTORY SINCE 1485. (3) Richardson.

110. HISTORY OF UNITED STATES TO 1861. (3) Hoover, Morrison, Field.

111. HISTORY OF UNITED STATES SINCE 1861. (3) Hoover, Morrison, Field.

112. HISTORY OF GREECE. (2) Brokaw.

113. HISTORY OF ROME. (2) Brokaw.

115. THE OLD SOUTH. A study of the plantation regime in the ante bellum South, with emphasis on the daily life on the various types of plantations. (3) Morrison.

116. THE NEW SOUTH. Social, economic, and political life in the South since 1865, rural conditions, industrial development, labor conditions, the problem of white and black, educational progress, the Solid South in politics, the South today. (3) Morrison.

132. HISTORY OF OHIO. (2) Hoover.

141, 142. HISPANIC AMERICA. An introductory course in Hispanic American history. (3) Johnston.

169h. TEACHING OF HISTORY AND CIVICS IN JUNIOR AND SENIOR HIGH SCHOOLS. (Same as Ed. 169h) The development of history and civics as school subjects, objectives, instructional methods and materials, types of work, organization of the course of study, testing, and school problems related to teaching the subjects. (2) Smith.

203. ENGLISH HISTORY, TUDOR PERIOD. Prereq., 6 hrs. (2) Jones.

204. ENGLISH HISTORY, STUART PERIOD. Prereq., 6 hrs. (2) Jones.

211. FRENCH REVOLUTION AND NAPOLEONIC ERA, 1789-1815. Prereq., 6 hrs. (3) Jones.

212. EUROPE IN THE NINETEENTH CENTURY. A study of the development of England, France, Germany, Italy, and Russia, and their international relations. Prereq., 6 hrs. (3) Jones.

235. HISTORY OF CANADA. Prereq., 6 hrs. (2) Hoover.

241. THE BRITISH EMPIRE. The evolution of the British Empire to the beginning of the twentieth century, with special emphasis on the development of colonial policy, imperialism, the growth of crown colonies, colonial reform, and the growth of nationalism in the self-governing colonies and India. Prereq., 6 hrs. (3) Richardson.

242. THE BRITISH EMPIRE IN THE TWENTIETH CENTURY. Later developments in the British Empire, including a survey of the organization and structure of the Third Empire, the achievement of Dominion status and the evolution of the British Commonwealth of Nations. Prereq., 6 hrs. (3) Richardson.

243. MEDIEVAL HISTORY. A study of the social, economic, and cultural forces of the Middle Ages, with particular emphasis upon such major movements as the development of the medieval papacy, monasticism, feudalism, universities, the Crusades, commerce and money economy, and the Renaissance. Prereq., 6 hrs. (3) Richardson.

244. RENAISSANCE AND REFORMATION. The revival of learning and the Protestant Revolt to the age of monarchy. Special emphasis is given to the social and economic background of the major movements of the period: the Italian and Trans-Alpine Renaissance, the Protestant break with Rome, and the Catholic Reformation. Prereq., 6 hrs. (2) Richardson.

245. IMPERIALISM AND WORLD POLITICS. Prereq., 6 hrs. (3) Volwiler.

251. SECTIONAL CONTROVERSY, 1829-1850. Slavery and political controversy, rise of the common man, rural conditions, transportation, immigration, education, the factory system, reform agitation, territorial annexations, growth of nationality. Prereq., 6 hrs. (3) Morrison.

253. THE UNITED STATES, 1850-1877. The sections of the United States in 1850, forces leading to war, the great conflict; Reconstruction, its background and development; restoration of home rule in the South. Prereq., 6 hrs. (3) Morrison.

254. CONTEMPORARY UNITED STATES. Social conditions in 1900; agriculture, business, transportation, communication, labor, imperialism and foreign trade, trends toward state capitalism and regulation, new governmental agencies, political changes, reforms, the new outlook. Prereq., 6 hrs. (3) Morrison.

255. CONSTITUTIONAL HISTORY. The Constitution of the United States: its origin, formation, and ratification. Prereq., 6 hrs. (2) Hoover.

256. THE EMERGENCE OF MODERN UNITED STATES. 1877-1900. Social and intellectual conditions, agrarian unrest, rise of large corporations and their regulation, railroad building, tariff policies during the Harrison-Cleveland era, the Spanish-American War, and the drift toward imperialism and world power. Prereq., 6 hrs. (3) Volwiler.

257. THE WESTWARD MOVEMENT. The expansion from the Atlantic Coast to the Pacific. Explorations, Indian trade, land policies, pioneer life, terri-

torial acquisitions and state making, trails and railroads to the Far West, rise of cowboy land, types of later frontiers, and influence of the West upon American ideals and institutions. Prereq., 6 hrs. (3) Volwiler.

258. STATESMEN OF THE UNITED STATES. A study of the life and times of leading Americans through the Civil War period. Prereq., 3 hrs. and 110. (2) Hoover.

259. STATESMEN OF THE UNITED STATES. A continuation of Hist. 258, covering the period since the Civil War. Prereq., 3 hrs. and 111. (2) Hoover.

270. THE FAR EAST. A study of the history of China and Japan and their relations with other countries. Prereq., 6 hrs. (3) Smith.

301. HISTORIOGRAPHY AND METHODOLOGY. Representative historians and their writings. An introduction to the technique of historical research and thesis writing. Prereq., 15 hrs. (2-3) Volwiler.

303. PROBLEMS IN HISTORY. Intensive individual work either in research or in systematic reading along the lines of a student's special interest under the supervision of a member of the staff. Prereq., 15 hrs. and permission. (1-6) The staff.

391. SEMINAR IN HISTORY. Reports based upon original research with group discussion and criticism. Prereq., 15 hrs. and permission. (1-6) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

HOME ECONOMICS

Professor Justin; Assistant Professors Patterson, Morse, Wagner;
Instructors Snyder, Harger, Lagerstrom; Research Specialist Rhodes

CLOTHING AND TEXTILES

1. CLOTHING SELECTION AND CONSTRUCTION. A study of essential factors entering into a wise choice of clothing for the family. Problems in constructing simple garments. 1 lec. and 4 lab. Fee, \$3. (3) Morse.

4. CLOTHING APPRECIATION. Clothing problems of the college girl, psychology of clothing, good taste in dress. How to plan, purchase, and care for a satisfactory but economical wardrobe. Construction of clothing for the individual. -1 lec. and 4 lab. Fee, \$3. (3) Lagerstrom.

110. TEXTILES. A study of textiles as to fiber, manufacture, use, and desirability. Hand loom weaving problems. 2 lec. and 2 lab. Fee, \$3. (3) Morse, Lagerstrom.

211. ECONOMICS OF CLOTHING. Clothing study relative to market quality, cost, creative factors, fashion trends, standardization, and textile legislation. Construction of garments from wool and silk. 2 lec. and 2 lab. Prereq., 1 or 4, and 110. (3) Wagner.

212. **CREATIVE TEXTILE PROBLEMS.** Students are given an opportunity to develop original ideas in textiles, garment designs, decorations. Prereq., 110 and 3 hrs. art. (2-4) Morse.

215. **HISTORY OF COSTUME AND OF TEXTILES.** Brief study of costume and textiles through the ages, with laboratory coordination in stage costumes and figurine dressing. Prereq., 1 or 4, and 110. (2) Morse.

216. **CLOTHING DESIGN AND CONSTRUCTION.** Original designs are developed and draped. Construction problem in tailoring. 6 lab. Fee, \$3. Prereq., 1 or 4, and 110. (3) Morse.

218. **TEXTILE ANALYSIS.** Physical and chemical examination of fibers and fabrics. Problems in the comparison and evaluation of fabrics. 1 lec. and 4 lab. Prereq., 110 and 3 hrs. chemistry. (3) Morse.

395. **THESIS.** Prereq., permission. (4-8) Morse.

FAMILY RELATIONSHIPS AND CHILD DEVELOPMENT

271, 272. **CHILD DEVELOPMENT.** A study of the child with reference to the problems of parents. H. Ec. 271 deals with the physiological development and the physical care and health habits of the child. H. Ec. 272 deals with the child's mental health, social and emotional development, and with parental techniques for the guidance of young children. 1 lec. and 2 hrs. nursery school observation. Prereq., 21 or 22, 1 or 110, or 6 hrs. psychology. (2) Justin, Snyder.

273. **FAMILY RELATIONSHIPS.** A study of the functioning of the successful family and the factors that effect its establishment and maintenance. Prereq., 272, 3 hrs. sociology, and 3 hrs. psychology. (3) Justin.

377. **SPECIAL PROBLEMS IN FAMILY RELATIONSHIPS.** An intensive study of a problem in family relationships. Prereq., 272 and 273. (2-6) Justin.

379. **SPECIAL PROBLEMS IN CHILD DEVELOPMENT.** An intensive study of a phase of child development or a problem in child guidance. The nursery school may be used as a laboratory if desired. Prereq., 272. (2-6) Justin, Snyder.

395. **THESIS.** Prereq., permission. (4-8) Justin, Snyder.

FOODS AND NUTRITION

21. **FOODS AND NUTRITION.** Energy, protein, mineral, and vitamin requirements. Cost in relation to food value. Planning, preparing, and serving well balanced meals. Social customs relating to food service. 1 lec. and 4 lab. Fee, \$3. (3) Patterson.

22. **ECONOMICS OF FOODS.** Food markets and marketing problems from the standpoint of the consumer. Planning and preparing meals for various budget levels. Study of time element, amount of work, and equipment involved in food preparation. 1 lec. and 4 lab. Fee, \$3. (3) Patterson.

222. **EXPERIMENTAL COOKERY.** Experimentation, investigation, and research in methods of cookery. Individual or group work on selected topics. 1 lec. and 4 lab. Fee, \$3. Prereq., 21 or 22, and 3 hrs. chemistry. (3) Patterson.

225. **DIETETICS.** Fundamental principles of nutrition based upon the nutritive value of foods and nutritive requirements of man. Practical application of these principles to the feeding of individuals and families under varying physiological, economic, and social conditions. 2 lec. and 2 lab. Fee, \$3. Prereq., 21 or 22, and 3 hrs. chemistry. (3) Harger.

227. **QUANTITY COOKERY.** The planning, preparing and serving of foods in large quantities for residence halls, school lunch rooms, cafeterias, and for school banquets or special parties. 1 lec. and 4 lab. Prereq., 21 or 22, and 105. (3) Harger, Davis.

228. **RECENT DEVELOPMENTS IN FOOD AND NUTRITION.** Reports, discussions, and reviews of scientific literature. Prereq., 225. (3)

229. **NUTRITION IN DISEASE.** Adaptation of diet to disorders of nutrition. The causes, effects, and extent of malnutrition. Opportunity for practical work in these fields. 2 lec. and 2 lab. Fee, \$2. Prereq., 225. (2) Harger.

241. **NUTRITION WORK WITH CHILDREN.** Relation of nutrition to growth and development of children. Methods for improving the nutrition of children through the school and other organizations. Prereq., 225. (2)

242. **INSTITUTIONAL BUYING.** Problems in the planning and equipping of institutions. Study of floor plans with relation to needs of various services; current procedures in large quantity food purchasing. Prereq., 21 or 22, 105, and 227. (3) Harger.

248. **INSTITUTIONAL MANAGEMENT.** Organization and management problems in residence halls, lunch rooms, hotels, and hospital dietary departments. Personnel problems, financial statements, operation expenses, food and budgetary control. Observation in various types of institutions. Prereq., 21 or 22, and 105, and 227. (3) Harger.

333. **SPECIAL PROBLEMS IN CHEMISTRY OF FOODS AND NUTRITION.** A study of a selected problem in the chemical properties of food materials and the effect of cooking processes on the nutritive value of foods. Prereq., 225. (3).

395. **THESIS.** Prereq., permission. (4-8) Patterson, Harger.

GENERAL HOME ECONOMICS

51. **ORIENTATION IN HOME ECONOMICS.** History of home economics. The value of home economics in education for personal, home and family living, homemaking, and vocational training. The place of home economics in the present organization of the school curriculum. (2) Justin, assisted by specialists in each field.

55, 56. **HOUSEHOLD ARTS FOR THE ELEMENTARY SCHOOL.** H. Ec. 55 pertains to the problems of the person directly as an individual and later as a

teacher. It includes self-expression through art applied to clothing and surroundings, satisfaction through better eating and better habits and conditions of living, direction in solving consumer problems, and better home and society membership. H. Ec. 56 emphasizes the application of this information in the work in the class room. 4 lab. Fee, \$2. (2) Rhodes.

168h. TEACHING OF HOME ECONOMICS. (Same as Ed. 168h) Home living and homemaking organization and procedure in the school curriculum. Consideration of objectives and needs for various groups; methods of instruction for home and family living. Home projects, field trips and observations of various classes including adult education groups. Prereq., 12 hrs. (3) Patterson.

200. PROBLEMS IN HOME ECONOMICS. Students are required to plan and complete a problem in one of the specialized fields of home economics. Prereq., 6 hrs. in home economics and junior rank. (2-4) The staff.

250. SPECIAL PROBLEMS IN THE TEACHING OF HOME ECONOMICS. (Same as Ed. 250) Opportunity for individual selection of problems. Prereq., 18 hrs. and 168h. (3) Patterson.

251. HOME MANAGEMENT. A study of the economic use of time, energy, and money in the successful functioning of homes at various income levels. Prereq., 21 or 22, and 105. (2) Justin.

253. HOME MANAGEMENT LABORATORY. Residence in the home management house for one half semester provides managerial experience in the use of time, energy, and money in the modern household. Prereq., 21 or 22, 105, and permission. (2) Wagner.

254. HOME ECONOMICS IN ADULT EDUCATION. Organization procedures, curriculum materials, and methods of conducting adult education groups in the field of education for home and family life. Prereq., 251 and 253, 271 or 272, and 10 hrs. education or psychology. (3) Justin.

256. ECONOMICS OF CONSUMPTION. Consumer buying problems and the effects of consumption on the economic welfare of society, standards of living, the market and its devices, selection of goods, consumer aids, consumer co-operatives. Prereq., 21 or 22, 1 or 110, or 6 hrs. economics and marketing. (3) Wagner.

257. CONSUMERS' COOPERATION. Development of consumers' cooperation in foreign countries and in the United States, cooperative education, and the effect on family economy. Prereq., 6 hrs., or 6 hrs. economics and marketing. (3) Wagner.

258. SPECIAL PROBLEMS IN HOUSEHOLD ECONOMICS. Individual investigation in standards of living, family expenditures, structure of the retail market, and methods for increasing efficiency in purchasing. Prereq., 256. (3).

351. SPECIAL PROBLEMS IN HOME ECONOMICS. Students select special problems for individual research under the supervision of a member of the staff. The work of the course is devoted to the planning, executing, and testing of results of individual problems of research. Prereq., 18 hrs. home economics. (2-8) The staff.

352. **SPECIAL PROBLEMS IN HOME MANAGEMENT.** An intensive study of the efficient management of time, energy, or money in the home. Prereq., 251 and 253. (2-3) Justin.

395. **THESIS.** Prereq., permission. (4-8) The staff.

THE HOUSE AND ITS EQUIPMENT

105. **HOUSEHOLD EQUIPMENT.** The selection of household equipment as affected by economic and social factors. The operation, care and storage of equipment in the home. 2 lec. and 2 lab. (3) Lagerstrom.

131. **HOME PLANNING.** The house and its furnishings considered in relation to artistic, economic and social factors affecting choice. 2 lec. and 2 lab. Fee, \$3. Prereq., 1 or 110, and 3 hrs. art. (3) Snyder.

234. **HOUSEHOLD ENGINEERING.** Survey of agencies offering services to home-makers in the selection, operation, and maintenance of household equipment. Prereq., 21 or 22, 105, and 131. (3) Lagerstrom and specialists in related sciences and manufacturing fields.

238. **HOUSING AND COMMUNITY WELFARE.** History of the housing movement. Family and community living conditions as effected by housing regulation and legislation. City planning and zoning. Trends in American and foreign housing. Prereq., 131, 251, and 253. (3) Morse.

395. **THESIS.** Prereq., permission. (4-8) The staff.

INDUSTRIAL ARTS

Associate Professor Kinison; Instructors Paige, Stephan

The requirements for a major in industrial arts include the following: C. E. 2, Ind. A. 2, 7, 8, 109, 116, 117, 121, 124, 141-142, 212, and 226. Additional courses are determined by the requirements for the degree of A. B., B. S., or B. S. in Ed.

1-2. **ELEMENTARY WOODWORKING.** The operation of hand and machine woodworking tools. Drawings and job sheets are used in constructing projects. 1 lec. and 4 lab. Fee, \$3. (3) Paige.

6. **WOOD TURNING.** Instruction is given in the care and use of lathes and tools. The various exercises and kinds of wood that are used in turning. 4 lab. Fee, \$2. (2) Paige.

7. **SHEET METAL.** Cutting, forming, seaming, soldering, and riveting of materials used in sheet metal construction. The development of patterns and a knowledge of the sheet metal industry is an essential part of the work. 1 lec. and 3 lab. Fee, \$2. (2) Stephan.

8. **GENERAL SHOP.** The laboratory offers experience and information in mechanical drawing, electricity, metal and wood working. 1 lec. and 4 lab. Fee, \$3. (3) Stephan.

9. CRAFT AND HOBBY WORK. Work in wood, iron, brass, copper, leather, reed, raffia, plastics, fibers, and other materials is offered. Fee, \$2. (2) Stephan.

105. MATERIALS AND FINISHES. A study is made of the different materials and finishes that are generally used in the industrial arts shop, their sources, manufacture, and application. (3) Paige.

109-110. CABINET MAKING. Paneling, veneering, drawer construction, framing, and door fitting. The student works from blue prints and drawings. As the student advances, a difficult cabinet is constructed. 9 lab. Fee, \$3. Prereq., 2. (3) Paige.

116. CONSTRUCTIVE DESIGN. Practice in free-hand sketching. Originality stressed in the designing and studying of suitable school shop problems. A study of the outstanding periods and master designers. Prereq., C. E. 2. (2) Paige.

117. WOOD SHOP AND MACHINE MAINTENANCE. Circular, band, hand saw fitting, band saw brazing and grinding, general repair. Sharpening of tools, lubrication, and adjustment of wood working equipment. 4 lab. Prereq., 109. (2) Paige.

121. PATTERN MAKING, FORGE, AND FOUNDRY. A study of processes, methods, equipment, and organization of these shops as found in industry, with three or more problems in each shop. 1 lec. and 3 lab. Fee, \$2. (2) Stephan.

122. ELEMENTARY INDUSTRIAL ARTS. This course is designed to give essential and simple tool operations and skills that are desirable for teachers of the elementary grades. Common woodworking and metal working hand tools are used. 1 lec. and 1 lab. Fee, \$1. (1) Kinison.

124. MACHINE SHOP. Chipping, filing, straight turning, taper turning, eccentric turning, chuck turning, face-plate turning, inside turning, thread cutting, polishing, shaper work, grinding, and the care of machine tools, shafting, and belting. 6 lab. Fee, \$2. (2) Stephan.

126. SHOP ENGINEERING. A study of the equipment, materials, and the organization of industry to acquaint the student with the methods of industrial manufacturing. The course includes inspection trips and the outline of the manufacture of an article on a production basis. 1 lec. and 3 lab. Fee, \$2. (2) Stephan.

127. SHOP PRACTICE. Assisting in the supervision, handling of supplies and materials, care of projects in shop courses. Prereq., permission. (2-3) Kinison.

141-142. PRINTING. A study of the composition and nomenclature of type, point system, proof reading, grammatical rules, and printing history. Laboratory work consists of learning the case, composition of straight matter and headings, distribution, pulling and correcting proofs, imposition, and platen press work. Studies of papers and paper making, care of stock, harmony and proportion, linoleum cuts, and setting job composition are included. 1 lec. and 4 lab. Fee, \$3. (3) Kinison.

145. **NEWSPAPER PRINTING AND MAKE-UP.** A study of the nomenclature of type and the characteristics of twenty-five type families. Symbolism of type faces and their commercial uses. Make-up of standard and tabloid front pages at the stone following preparation of layout sheets. Practice in setting various types of headlines. Study of technique and use of panels, boxed inserts, streamers, and other typographical devices used in newspaper make-up. 1 lec. and 2 lab. Fee, \$2. (2) Kinison, Buchan.

147. **ADVANCED PRINTING.** This course deals with the problems that are encountered in a commercial job printing shop. The subjects of lay-outs, papers, half-tones, etchings, costs, and estimating are studied. The laboratory work consists of the filling of printing orders requested by the university. 6 lab. Fee, \$3. Prereq., 142. (3) Kinison.

160m. **TEACHING OF INDUSTRIAL ARTS.** (Same as Ed. 160m) This course deals with the organization and administration of shop laboratories, and the methods of presenting technical and related information. Special consideration is given to the grading and testing of manipulative work and class recitations. A simple method of accounting for laboratory materials and supplies is presented. Prereq., 6 hrs. and permission. (3) Kinison.

212. **SCHOOL SHOP EQUIPMENT AND ORGANIZATION.** A study of equipment, school shop arrangement, machine importance, handling of supplies, and types of shop organizations. (3) Stephan.

226. **HISTORY OF INDUSTRIAL AND VOCATIONAL ARTS.** A study of the history, the current tendencies, and the methods of organization of the industrial and vocational arts. Special study of the Smith-Hughes law and the George Deen Act and their administration in the state. Prereq., 160m and 3 hrs. school administration. (3) Paige.

350. **ADVANCED WOOD, METAL, OR PRINTING.** Advanced laboratory work in wood, metal, or printing. A study of industrial practice in the field selected by the student. Prereq., 8 hrs. in the selected field. (3) The staff.

355. **SPECIAL PROBLEMS IN GENERAL SHOP.** A theory course dealing with the organization, equipment, and management of the general shop as related to the small high school. Prereq., 12 hrs. (3) Kinison.

357. **CURRICULUM BUILDING IN INDUSTRIAL ARTS.** A study of curriculum building with special reference to the integration of the work of industrial arts with the other fields throughout the school program. Prereq., 16 hrs. (3) Kinison.

381. **RESEARCH IN INDUSTRIAL ARTS.** A study of techniques of research and of reporting the results of the research efforts. Prereq., 15 hrs. (3-6) Kinison.

395. **THESIS.** Prereq., permission. (4-8) The staff.

ITALIAN

(See Romance Languages)

JOURNALISM

Professor Lasher

Instructors Harris, Smiley, Kelly, Buchan

4-5. NEWSPAPER READING. Students study the various types of newspapers, the organization of the newspaper from the reader's point of view, and the relationship of the newspaper to social, economic, religious, and educational problems. Propaganda and editorial bias are considered. Leading newspapers of the country are analyzed. (1) Lasher.

103. NEWS WRITING. The course deals with the simple news story, stressing the lead. Particular attention is paid to diction and usage and to the fundamentals of sentence structure as agencies for the improvement of style in writing. Prereq., Eng. 4. (2) Lasher.

105. THE NEWSPAPER. A study of the character, the purposes, and the general organization of the newspaper, including its business and mechanical aspects, with attention to its origin, development, and present status as a quasi-public institution. Prereq., Eng. 4. (2) Lasher.

107. NEWSPAPER REPORTING. Instruction in methods of gathering material and writing news narratives, interviews, reports of speeches, follow-up and re-write stories, human interest stories, and specialized news. Practical work covering assignments and preparing copy. Prereq., 103. (3) Kelly, Buchan.

110. WRITING FOR PUBLICATION. Designed for teachers, school administrators, social workers, and others who wish to know the elementary technique of writing news and feature stories in order to publicize their particular interests. Legitimate methods of getting material into publications are discussed. Not open to journalism majors and minors. Prereq., Eng. 4. (2) Lasher.

111-112. REPORTING PRACTICE. Students are assigned to general reporting on *The Athens Messenger*, which includes the covering of definite news beats as well as special assignments. In Jour. 112 a student is permitted, when possible, to specialize in the particular field of reporting he desires. Prereq., 107 and permission. (2-4 or 6) Smiley.

113. REPORTING PRACTICE. Not open to students who have had 6 hrs. in Jour. 111-112. Prereq., 112. (2) Smiley.

116. SPORTS WRITING AND EDITING. The course deals with the technique of gathering, writing, and editing news and comments concerning all sports, amateur as well as professional. Considerable attention is paid to golf, tennis, hockey, and to the promotion of community sports. Prereq., junior or senior rank. (2) Kelly.

117. NEWSPAPER EDITING. Principles and practices of newspaper copy-reading, headline writing, illustration, and make-up for dailies, community newspapers, and tabloids including regular, special, and Sunday editions.

Other phases: style; selecting art and editing picture pages; wire, syndicate news, and features; type and mechanical processes. Prereq., 107. (3) Kelly, Buchan.

121-122. EDITING PRACTICE. Students are assigned to copyreading on *The Athens Messenger*. Prereq., 117 and permission. (2-6) Harris.

130. BOOK REVIEWING. Following a study of book sections in outstanding newspapers and magazines and the methods of experienced book reviewers. Students write reviews of current books of various types. Prereq., Eng. 4. (2) Lasher.

134. THE WRITING OF CRITICISM. (1940-1941) The fundamental principles of art and criticism are studied and applied to concrete situations in reviewing musical, art, theatrical, photoplay, and radio events. Prereq., Eng. 4 and junior or senior rank. (2) Lasher.

140. THE COMMUNITY NEWSPAPER. The course stresses phases of the editorial and business management of daily or weekly newspapers published in small communities. Problems include: news treatment and editorial comment; the relation of the newspaper to school, church, business, and community life; circulation promotion; securing and preparation of advertising and job printing; mechanical equipment. Prereq., Eng. 4. (3) Lasher, Buchan.

145. NEWSPAPER PRINTING AND MAKE-UP. (Same as Ind. A. 145) A study of the nomenclature of type and the characteristics of twenty-five type families. Symbolism of type faces and their commercial uses. Make-up of standard and tabloid front pages at the stone following preparation of lay-out sheets. Practice in setting various types of headlines. Study of technique and use of panels, boxed inserts, streamers, and other typographical devices used in newspaper make-up. 1 lec. and 2 lab. Fee, \$2. (2) Kinison, Buchan.

151-152. CONTEMPORARY THOUGHT AND DEVELOPMENTS. Important contributions being made in the fields of art, science, music, education, drama, medicine, literature, government, public health, philosophy, economics, psychology, finance, engineering, law, religion, and sociology are discussed by members of the faculty from various departments and by laymen. Material is presented as a background for newspaper writers and readers. Prereq., junior or senior rank. (3) Lasher and others.

155. HIGH SCHOOL PUBLICATIONS. (Summer session only) Editorial supervision and business management problems of high school newspapers, yearbooks, magazines, and handbooks. (2) Lasher.

164j. TEACHING OF HIGH SCHOOL JOURNALISM. (Same as Ed. 164j) For those who wish to use the journalism motive in English composition classes, those who may direct the editing of high school publications, or those who plan to teach journalism. Fundamentals of newspaper writing and editing. Attention to preparation of school publicity copy for newspapers. (2) Lasher.

172. THE NEWSPAPER AS A BUSINESS INSTITUTION. The course deals with

the organization of the newspaper, emphasizing the various functions and the cooperative responsibilities of business, editorial, and mechanical department. Designed for students who are not specializing in business phases of the newspaper. (2) Buchan.

173. NEWSPAPER CIRCULATION PRACTICE. Training in the technique of the Audit Bureau of Circulation system of record keeping. Practical work in circulation, department organization, promotion methods, carrier management, mailing room and transportation supervision at *The Athens Messenger*. Prereq., 172 or 243. (2-3) Buchan.

175. NEWSPAPER OFFICE AND PLANT MANAGEMENT PRACTICE. A laboratory study of the administration of the accounting and mechanical departments of the newspaper. The publisher of *The Athens Messenger* and the instructor in the business courses in the School of Journalism supervise. Prereq., 173, 177, and Acct. 76 or 81. (2) Buchan.

177. NEWSPAPER ADVERTISING PRACTICE. Laboratory work in preparing copy for local display advertisers in *The Athens Messenger*. Other practice problems in the fields of classified, national, and promotion advertising. Prereq., 172 or 243, and 247. (2-3) Buchan.

180. NEWS BROADCASTING. Technique in gathering, writing, and editing local and wire news for radio. Live wire copy from *The Athens Messenger* is used in writing fifteen-minute broadcasts. News dramatizations of significant and human interest stories which have already appeared in newspapers. Newspaper promotional activities. Prereq., 117 and senior rank. (2) Buchan.

181. WRITING FOR RADIO. Original and adaptive writing of short shorts, short story, skits, plays, and other forms of fiction suitable for radio dramatization. Sound and production problems for scripts are worked out in cooperation with students in Dram. A. 125. Prereq., 6 hrs., or 12 hrs. English, and junior or senior rank. (2) Buchan.

183. FICTION WRITING FOR NEWSPAPERS AND MAGAZINES. Study of the craftsmanship of short fiction appearing in daily and Sunday newspapers and in magazines. Graded practice lessons in fiction technique. Editorial taboos and requirements of syndicates, newspapers, and magazines, and a study of specific markets. Prereq., 6 hrs., or 12 hrs. English, and junior or senior rank. (3) Buchan.

201. ADVANCED REPORTING. Experience at *The Athens Messenger* in some specialized field in which the student is doing research. Prereq., 112 and permission. (2) Smiley, Buchan.

206. NEWSPAPER LAW. A case study of the law of libel with special emphasis on constitutional and statutory law pertaining to freedom of the press and defamatory writing. A study and discussion of the constitutional, statutory, and common law rights of the newspaper and the reporter. New state and national legislation that affects newspapers. Prereq., 117 or 243, and senior rank. (2) Buchan.

207. REPORTING OF PUBLIC AFFAIRS. The course deals with those facts about the courts, legal procedure, civic agencies, government, politics, and business organizations fundamental for the intelligent reporting of public affairs in a community. Students are brought into contact with local officials and organizations. Prereq., 112 or permission, and senior rank. (2) Lasher.

208. JOURNALISM ETHICS. The case method is applied to such problems as news suppression, publicity, propaganda, and constructive handling of news dealing with crime, religion, politics, capital, labor, and general social conditions. Prereq., 117, 172 or 243, and senior rank. (2) Lasher.

222. FEATURE AND MAGAZINE WRITING. A study of newspaper, magazine, and syndicate feature stories is followed by practice in writing different types. Some of the problems considered are: discovering desirable material, securing suitable illustrations, bringing out the dominant interest, preparation and sale of manuscripts. Prereq., 107 or 12 hrs. English. (3) Lasher.

223. ADVANCED FEATURE AND MAGAZINE WRITING. Students are permitted to select their type of material. Writing is done with the definite idea of publication. A study is made of the most suitable markets for publication. A conference course. Prereq., 222. (2) Lasher.

225. THE EDITORIAL PAGE. A study of the editorial page as to purpose, material, style, tone, and effect. Training is given in the analysis of news and in the writing of news interpretation, news comment, controversial and generalized editorials, and the editorial paragraph. Prereq., 111 or 12 hrs. English, and senior rank or permission. (3) Lasher.

243. NEWSPAPER MANAGEMENT. Problems of business organization, circulation, the handling of local, national, and classified advertising, office and composing room management, newspaper accounting, business promotion, financing the newspaper, and editorial policies in relation to management. Prereq., 105 and Acct. 76 or 81. (3) Buchan.

247. NEWSPAPER ADVERTISING. Departmental organization, solicitation technique, promotion, layout, copywriting, and typography pertaining to the retail, classified, national, and legal advertising departments of the newspaper. Agency organization and operation. Practical problems include preparation of copy for *Green and White* advertisers. Prereq., Advt. 155. (3) Buchan.

LATIN

(See Classical Languages)

MARKETING

(See Commerce)

MATHEMATICS AND ASTRONOMY

Professors Reed, Marquis; Associate Professor Starcher;
Instructors Denbow, Osgood, Miller

The major requirement in mathematics for the A. B. or B. S. degree includes Math. 5, 6, 117, 118, and two other courses at least one of which shall bear a course number in the 200 group.

1. **ELEMENTARY ALGEBRA.** A beginning course for students with no high school algebra. (4)

3. **PLANE GEOMETRY.** (1940-1941) A course for students with no high school geometry. Prereq., 1 or 1 yr. high school algebra. (4) Denbow.

4. **SOLID GEOMETRY.** (1940-1941) Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry. (3) Denbow.

5. **FRESHMAN MATHEMATICS.** The number system, the rational operations, equations, exponents, radicals, logarithms, the trigonometric functions, right triangles, binomial theorem, quadratic equations, linear equations, determinants, graphs, theory of equations, functions of multiple angles, and the solution of triangles. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry. (5) The staff.

6. **FRESHMAN MATHEMATICS.** Complex numbers, coordinate systems, progressions, the straight line, the circle, conic sections, polar forms, the transformation of coordinates, and a brief treatment of solid analytic geometry. Prereq., 5. (5) The staff.

11. **GEOMETRY.** (Extension Division only) A review of elementary geometry, advanced problems in plane Euclidean geometry, the postulates of geometry, and a brief consideration of two types of non-Euclidean geometry. Prereq., 3 or plane geometry in high school. (3) Marquis.

14. **DESCRIPTIVE ASTRONOMY.** The earth as an astronomical body, the motions and physical characteristics of the sun and other bodies of the solar system, and the distances, constitution, and distribution of stars and nebulae. The simple principles of physics and mathematics needed to understand the subject are developed. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry. (3) Reed.

34. **MATHEMATICS OF FINANCE.** A study of interest, annuities, sinking funds, valuation of bonds, capitalized cost, life insurance, and life annuities. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry. (3) Marquis.

105. **COLLEGE GEOMETRY.** Problems of construction, loci, indirect methods, similar and homothetic figures, the triangle, medians, bisectors, altitudes, and transversals. Prereq., 6. (3) Marquis.

117. DIFFERENTIAL CALCULUS. Variables, functions, limits, differentiation and its applications to maxima and minima, differentials, curvature, and the theorem of mean value. Prereq., 6. (4) Reed, Marquis, Starcher.

118. INTEGRAL CALCULUS. Integration, the definite integral, geometrical and physical applications of integration, series, expansion of functions, partial differentiation, multiple integrals, and a brief treatment of simpler types of differential equations. Prereq., 117. (4) Reed, Marquis, Starcher.

125. ELEMENTARY STATISTICS. The common theory and methods used generally by investigators in widely different fields. The topics considered are: graphs, methods of computing the statistical constants, transformation of unit, moments, the normal law, curve fitting, time series, trend and ratio charts, correlation, regression, and probability. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry. (3) Starcher.

168m. TEACHING OF MATHEMATICS IN HIGH SCHOOL. (Same as Ed. 168m) An analysis of the basic ideas of algebra and geometry. Methods of presenting topics in these subjects to high school students. Prereq., 6 and Psych. 5. (3)

201. THEORY OF EQUATIONS. The roots of unity, theorems on the roots of an equation, construction of roots with ruler and compasses, isolation of real roots, numerical solutions, determinants, systems of linear equations, and symmetric functions. Prereq., 6. (3) Reed.

204. ADVANCED CALCULUS. Particular subjects in the differential and integral calculus: expansion into series, Taylor's series, definite integrals and their applications to double and triple integrals, line integrals, and some vector analysis. Prereq., 118. (3) Reed.

208. PROJECTIVE GEOMETRY. A study of the elements, primitive forms, duality, projectively related forms, curves and ruled surfaces of the second order, Pascal's and Brianchon's theorems, poles and polars, and the theory of involution. Prereq., 6. (3) Marquis.

215. DIFFERENTIAL EQUATIONS. The formation of a differential equation, types of equations solvable by a transformation, linear equations, integration in series, simultaneous linear equations, and differential equations arising in mechanics and physics. Prereq., 118. (3) Reed.

217. VECTOR ANALYSIS. The elements of vector algebra, the elements of vector calculus, scalar and vector fields, linear vector functions and dyadics, and general coordinates and associated transformation theory. Prereq., 118. (3) Reed.

219. ANALYTIC MECHANICS. Moments of mass and inertia, kinematics of a point, curvilinear motion, kinetics of a particle, work, energy, impulse, motion of a particle in a constant field, central forces, and potential energy. Prereq., 118. (3) Marquis.

221. THEORY OF NUMBERS. Division, congruences, Wilson's theorem, Fermat's theorem, Euler's theorem, quadratic reciprocity, and Diophantine equations. Prereq., 118. (3) Marquis.

226. THEORY OF STATISTICS. The normal surface, probability, frequency curves and their uses, sampling theory, multiple correlation, finite differences, and interpolation. Prereq., 118 and 125. (3) Starcher.

301-302. MODERN HIGHER ALGEBRA. Prereq., 118 and 201. (3) The staff.

311-312. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE. Prereq., 201 and 215. (3) Starcher.

319-320. THEORY OF FUNCTIONS OF A REAL VARIABLE. Prereq., 201 and 215. (3) Marquis.

395. THESIS. Prereq., permission. (4-8) The staff.

MILITARY SCIENCE AND TACTICS

Professor McNeill; Associate Professors Olmstead, Pearson;
Assistant Instructors Andrews, Fair, Wallace

1-2. BASIC INFANTRY. The National Defense Act, leadership, rifle marksmanship, obligations of citizenship, military courtesy and discipline, organization, sanitation and first aid, military history and policy, map reading. Three hours a week. (1) Olmstead, Wallace.

3. MILITARY BAND. Open to students enrolled in military science and tactics. Students enroll concurrently with courses in military science. Students enrolled in the Military Band who have completed Mil. Sc. 1 may substitute training in the band for a part of the hours allotted to close order and other formal drills. Two hours a week. (1) Witzler, Olmstead.

101-102. BASIC INFANTRY. Military fundamentals, leadership, weapons, musketry, scouting and patrolling, tactical principles. Three hours a week. Prereq., 2. (1) Pearson, Fair.

121-122. ADVANCED INFANTRY. Aerial photograph reading, leadership, weapons, combat principles, elements of field service, military administration, training management, care and operation of motor vehicles. Prereq., 102. Five hours a week. (3) McNeill, Fair.

151-152. ADVANCED INFANTRY. Leadership, military law, military history, administration and supply, combat training, mechanization, tanks, anti-aircraft defense, signal communications. Five hours a week. Prereq., 122. (3) McNeill.

MUSIC

Professors Robinson, Ingerham;
 Associate Professors Danielson, Janssen, Fontaine;
 Assistant Professors Kresge, Benedict, Longstreet,
 Roach, Blayney, Peterson;
 Instructors Board, Witham, Thackrey, Morley, Ellis, Maaser

APPLIED MUSIC

ORGAN. Private instruction in organ requires a background of pianistic ability equivalent to four semesters of credit. (1-3) Kresge.

PERCUSSION INSTRUMENTS. (1-2) Janssen.

PIANO. (1-3) Fontaine, Kresge, Longstreet, Board, Witham.

21-22. CLASS PIANO. Taught in groups of three individuals. Beginning instruction in pianoforte for adults only; based on the Oxford Piano Course for Adult Beginner. Credit in this course cannot be used toward the fulfillment of any requirements in piano toward graduation. 2 lec. and 5 lab. Fee, \$9. (1) Witham.

STRINGED INSTRUMENTS. Private instruction in violin, viola, violoncello, and double bass. (1-3) Ingerham, Ellis.

VOICE. (1-3) Robinson, Benedict, Roach, Peterson, Ellis.

WIND INSTRUMENTS (BRASS). (1-2) Janssen.

WIND INSTRUMENTS (WOOD). (1-2) Witzler.

HISTORY AND THEORY

5-6. MUSIC APPRECIATION. The aim is to encourage intelligent listening and consequent enjoyment of music. The victrola, piano, and organ are used for illustrative purposes. (1) Benedict.

7. INTRODUCTION TO THE FINE ARTS. Lectures and demonstrations planned to acquaint students with the fine arts field. (1) Fine Arts staff.

11, 12. MUSIC HISTORY. A general development of music from the primitive and ancient peoples through the polyphonic period; the classic music of the eighteenth century. Mus. 12 includes a study of the music of the nineteenth and twentieth centuries; romanticism, impressionism, and tendencies of the present day. A survey of agencies for musical advancement in America. (2) Peterson.

105-106. HARMONY. Formation of major and minor scales; intervals, triads, and their relations in open and close position; harmonizing of melodies; inversions, cadences, sequences, passing and auxiliary notes; original work. Mus. 106 includes the seventh chord on the dominant and leading note, and their inversions; chord of the ninth on the dominant, and inversions. 3 lec. (2) Kresge.

107-108. **KEYBOARD HARMONY.** Playing of triads, dominant sevenths and arpeggios. Harmonization of melodies in four voice harmony and in full piano style. Improvisation of melodies with accompaniment in phrase and period form, transposition. Prereq., the ability to play a hymn correctly. (1) Witham.

109, 110. **ENSEMBLE.** Participation in the playing or singing of ensemble arrangements of classic and modern compositions. (1) The staff.

111-112. **HARMONY.** Secondary seventh chords; altered and mixed chords; modulation, suspensions, retardations, anticipations, syncopations, organ-point, embellishments; harmonizing of melodies, or original work and analysis. Prereq., 106. (2) Kresge.

113-114. **ANALYSIS AND FORM.** Detailed analysis of the structure of musical compositions. Material used: the hymnal; *Songs Without Words*, Mendelssohn; sonatas of Beethoven; fugues of Bach. Prereq., 106. (2) Robinson.

115-116. **COUNTERPOINT.** Single counterpoint in all species, in two, three, or four parts. Mus. 116 develops motive, double counterpoint, free writing on original themes. Prereq., 114. (3) Fontaine.

120. **INSTRUMENTOLOGY.** Comparative musicology. A study of musical instruments. An explanation of the physical phenomena of sound generation and resonance precedes a systematic study of the development of the keyboard and wind and string instruments. (1) Janssen.

129. **MELODY WRITING.** A study of the principles involved in melodic construction. Open to anyone who can meet the prerequisite requirements and who has a normal harmonic sensitivity. 2 lab. Prereq., pianoforte 2 hrs. or the equivalent, and permission. (1) Robinson.

130. **ENSEMBLE CONDUCTING.** An opportunity for study and practical experience in either choral or instrumental conducting. Stress on the use of the baton, attack, release, control, phrasing, and other phases of foundational requirements. Interpretative studies in chorals, anthems, partsongs and the oratorio, opera, and symphony. Prereq., 2 yrs. of university piano and theory courses and permission. (1-6) Robinson, Ingerham, Janssen.

133-134. **INSTRUMENTATION.** The classification and scope of orchestral instruments, reading of scores, arranging and scoring for orchestra. Mus. 134 emphasizes the scoring of hymns and folk tunes for strings, woodwind, brass; the scoring for simple combinations and for full orchestra and band. Minute analysis of symphonic scores. Prereq., 114. (3) Janssen.

137-138. **THE LITERATURE OF MUSIC.** A survey of representative literature from the fields of opera, oratorio, art songs, chamber and orchestral music. Illustrated by the Capehart phonograph and individual performance. Prereq., 5 or the equivalent. (1) The staff.

139. **THE EVOLUTION OF THE OPERA.** A survey of the growth of opera as we know it today, including a study of libretti and the great personalities associated with it either as composer or artist. Illustrated by the Capehart phonograph. Prereq., 6 or 11. (2) Roach.

140. DEVELOPMENT OF THE PIANOFORTE AND ITS LITERATURE. Since the literature for the pianoforte is so voluminous and important, it is considered advisable to offer the student an opportunity to hear a series of lectures. Those electing this course are not required to be pianists. The course is a comprehensive study of the instrument, the primary musical forms adapted to it, and the representative composers. Prereq., 6 or 11. (2) Fontaine.

152. TECHNICAL PROBLEMS IN WOODWIND INSTRUMENTS. Practical demonstrations on flute, oboe, clarinet, and bassoon showing the problems of good and faulty manipulations. This course deals in reed selection, finger articulations, embouchure, the mouthpiece, and proper sound production. Students are shown how to analyze and to correct faulty playing. 2 lab. Prereq., 166w and 3 hrs. on a woodwind instrument. (1) Witzler.

211-212. MUSIC HISTORY. A survey of the growth and development of all forms of vocal music from the monadic period up to the twentieth century era, with emphasis upon conditions influencing expression. The greater composers are studied in reference to their contributions and characteristic styles. Mus. 212 traces the development of instrumental music. Prereq., 6, 12, and 120. (2) Peterson.

215-216. HARMONY. Chromatic harmony, modulation, altered chords, analysis. Original work. Comparison and examination of harmony text books. Prereq., 112, 114, and 2 yrs. aural theory. (2) Kresge.

217-218. COUNTERPOINT. The multiple forms of counterpoint. Double and triple counterpoint with and without free parts. Special attention is given to the *Inventions* and *Partitas* of Bach. Students write short, original compositions in the contrapuntal style for organ or piano, trios for piano and strings or woodwinds, as well as simpler forms for string quartet. Prereq., 116. (2) Fontaine.

219-220. MUSIC COMPOSITION. Correlation of the harmonic and contrapuntal principles. Comparison of the rhetorical principles of music and poetry. Original writings in the more simple forms. Prereq., 116 and an average of B in aural theory. (2) Robinson.

305-306. HARMONY. A study of the new methods of chord structure in modern harmony, polytonality, atonality, analysis, and original writing. Prereq., 216. (2) Kresge.

309-310. CANON AND FUGUE. A critical study of the classic canon in all its forms. Complete familiarity with the *Well-Tempered Clavichord* is expected. A fully developed original fugue in four voices is necessary for credit. Prereq., 218 and permission. (2) Fontaine.

311. MUSICOLOGY. The music of the eighteenth century. A detailed study of the backgrounds in literature, general history, social customs, and the fine arts of the classic period, special attention to Haydn and Mozart. Prereq., 212 and Hist. 1, 2. (2) Benedict.

312. MUSICOLOGY. Beethoven. An intensive study of the major works of the great master and a biographical survey of his life. Prereq., 120 and Hist. 1, 2. (2) Benedict.

313. **MUSICOLOGY.** Richard Wagner and the music drama. The social, economic, and political conditions of nineteenth century Germany as reflected in the life of Wagner. The fruition of romantic tendencies in the Wagnerian drama are considered in comparison with nineteenth century opera. *Tannhauser*, part of the *Ring* and *Die Meistersinger* are studied. This course alternates with Mus. 311. Prereq., 212 and Hist. 1, 2. (2) Benedict.

314. **MUSICOLOGY.** Twentieth century trends. A study of the impressionism of Debussy and its influence. The motivation of the modernists, Scriabin, Stravinsky, and Schoenberg. This course alternates with Mus. 312. Prereq., 212 and Hist. 1, 2. (2) Benedict.

325-326. **MUSIC COMPOSITION.** Extensive writing in the vocal and instrumental forms. The use of modern harmonic principles. Prereq., 220. (2) Robinson.

327-328. **ADVANCED ORCHESTRATION.** Problems in scoring original works and arranging for the modern symphony orchestra. Satisfactory scores are performed by the University Orchestra. Students are required to attend an assigned number of orchestra rehearsals. The class work includes criticism of each student's work. Prereq., 116 and 134. (2) Janssen.

395. **THESIS.** Prereq., permission. (4-8) The staff.

MUSIC ACTIVITIES

CHORUS. (Summer session only) Program material includes chorales, madrigals, and other choral forms. (1) Robinson.

UNIVERSITY BAND. Open to men students. Two hours a week are required in practice under the band leader. The University Band sometimes unites with the Military Band. (1) Janssen.

UNIVERSITY GLEE CLUB, MEN. Limited to 36 members. (1) Peterson.

UNIVERSITY GLEE CLUB, WOMEN. Limited to 36 members. (1) Benedict.

UNIVERSITY ORCHESTRA. Open to men and women students. (1) Ingerham.

UNIVERSITY VESTED CHOIR. An organization of mixed voices composed of the best vocal talent on the campus. The repertoire is confined to the highest type of vocal literature both a cappella and accompanied. Limited to 40 members. (1) Robinson.

SCHOOL MUSIC

1. **MUSIC BACKGROUND.** Required of all students planning to enter Mus. 2 or Mus. 3 who are not adequately prepared. It gives experience in the tonal and rhythmic elements of music with a basis for music understanding. 3 lab. (0) Danielson.

2. **MUSIC FUNDAMENTALS.** A course involving theory, ear training, tone production, and sight singing of unison and part songs. Fee, \$2. (2) Blayney, Morley.

3-4. EAR TRAINING AND SIGHT SINGING. Systematically graded exercises to quicken the musical hearing. Oral and written reproduction of melodies in all keys. Unison and part singing at sight. (2) Maaser.

103-104. EAR TRAINING AND SIGHT SINGING. Advanced melodic and harmonic dictation involving intricate rhythms and altered chords. More difficult sight reading of vocal and instrumental forms, stressing the underlying harmony. Study of form. Prereq., 4. (2) Maaser.

121. CAMPUS ORCHESTRA. A laboratory for instrumental majors. It provides practice for those who aim for increased facility in ensemble work. Open to any student who has sufficient skill in playing an orchestral instrument. (1) Thackrey.

127. MUSIC APPRECIATION. To familiarize students with the best material available for use in the elementary grades and high schools and methods of procedure in developing appreciation. (3) Danielson.

131. MUSIC MATERIALS AND SYSTEMS. A survey of materials and music systems in general use. An emphasis on choral literature. Prereq., 6 hrs. music teaching techniques. (2) Blayney.

166b. TEACHING OF INSTRUMENTAL MUSIC. (Same as Ed. 166b) Methods of organizing and conducting classes in instrumental music, with a survey of materials. Problems of organizing bands and orchestras. (3) Ingerham.

166d. TEACHING OF DANCES AND GAMES. (Same as Ed. 166d) Dances and games for grades 1 to 8 and methods of presentation. (1) Danielson.

166f. TEACHING OF MUSIC IN FIRST SIX GRADES. (Same as Ed. 166f) (3) Danielson.

166g. TEACHING OF MUSIC IN INTERMEDIATE GRADES. (Same as Ed. 166g) Prereq., 2. (2) Danielson, Blayney.

166j. TEACHING OF MUSIC IN JUNIOR AND SENIOR HIGH SCHOOL. (Same as Ed. 166j) (3) Danielson.

166k. TEACHING OF MUSIC IN KINDERGARTEN-PRIMARY GRADES. (Same as Ed. 166k) Prereq., 2. (2) Danielson, Blayney.

166p. TEACHING OF CLASS PIANO. (Same as Ed. 166p) Class instruction in piano covering the first two years of work outlined by the Oxford Piano Course. Participation in classroom teaching and survey of teaching material. Prereq., the equivalent of 2 hrs. in piano. (1) Witham.

166s. TEACHING OF CLASS STRINGED INSTRUMENTS. (Same as Ed. 166s) Elementary class instruction in instruments of the string choir in a situation similar to that met in schools. No previous knowledge of the stringed instruments is required. Participation in the piano class work in training school. (1) Thackrey.

166w. TEACHING OF CLASS WIND INSTRUMENTS. (Same as Ed. 166w) See Mus. 166s. (1) Thackrey.

173. **CONDUCTING.** Conducting technique developed. A study of qualities and habits essential to a good conductor. Individual practice in conducting choral material appropriate for use in the junior and the senior high schools. (1) Danielson.

174. **CONDUCTING.** Technique and score reading, orchestral conducting, and band conducting. Material suitable for use in the junior and senior high schools considered. Standard symphonies and overtures are conducted in laboratory with the Campus Orchestra. Prereq., 173. (1) Thackrey.

PAINTING AND ALLIED ARTS

Professor Mitchell; Associate Professors Way, Willis;
Assistant Professors Work, Bedford;
Instructors Leonard, Lembach, Patton, Seabaugh

DESIGN

3. **FUNDAMENTALS OF DESIGN.** Elementary principles using problems in color, lettering, and composition. Planned for students who expect to major in elementary education. 1 lec. and 3 lab. (2) Willis, Work, Bedford, Leonard, Seabaugh.

11. **THEORY OF DESIGN.** The relationship of line, area, and color in design and composition. 2 lec. and 4 lab. (3) Work.

12. **THEORY OF DESIGN.** Color theory. The qualities of color applied to designs. 2 lec. and 4 lab. Prereq., 11. (3) Bedford.

60c. **TEACHING OF DESIGN FOR EARLY CHILDHOOD.** (Same as Ed. 60c) 1 lec. and 1 lab. Prereq., 3. (1) Seabaugh.

60g. **TEACHING OF DESIGN FOR INTERMEDIATE AND HIGHER GRADES.** (Same as Ed. 60g) 1 lec. and 1 lab. Prereq., 3. (1) Seabaugh.

101. **DESIGN AND COMPOSITION.** Problems in design and composition with special emphasis on color. Planned for students who expect to major in home economics. 1 lec. and 3 lab. (2) Willis.

102. **APPLIED DESIGN.** Principles applied to posters, decorative boxes, wall hangings, painted tapestries, and table decorations. 2 lec. and 4 lab. Prereq., 101. (3) Willis.

103. **PRACTICAL DESIGN.** Special emphasis on application of principles to marionettes, toys, weaving, cardboard construction, clay modeling. 1 lec. and 3 lab. Fee, \$2. (2) Bedford.

104. **ELEMENTARY ARCHITECTURAL DESIGN.** Progressive drafting room exercises. Emphasis on composition and materials. Relationship of plan, section, and elevation in simple elements. 6 lab. Prereq., 21, 45, and C. E. 1. (2) Patton.

105. APPLIED DESIGN. A special course intended for home economics transfer students who have had no applied design. Individual problems in inexpensive materials. 1 lec. and 3 lab. Prereq., permission. (2) Willis.

113. LETTERING. Study of form, spacing, alphabet styles, and letter arrangement. 2 lec. and 4 lab. Prereq., 11. (3) Bedford.

114. TEXTILE DESIGN. All-over patterns with emphasis on principles. 2 lec. and 4 lab. Prereq., 12 or 102. (3) Way.

115. POTTERY. Clay processes toward functional shape. Study of decoration and history of pottery. 1 lec. and 3 lab. Fee, \$2. (2) Bedford.

124. JEWELRY. Original designs executed in pewter, copper, and silver. Three processes are studied: etching, piercing, and soldering. 1 lec. and 3 lab. Fee, \$2. Prereq., permission. (2) Willis.

125. THE ARTS IN EVERYDAY LIFE. Planned to help the student appreciate and select the best articles available for the home, costume, etc., according to their functional qualities. (2) Way, Bedford.

127. WORKSHOP IN THE SPACE ARTS. Students assigned to projects for practical experience. 3-9 lab. Prereq., 6 hrs. and permission. (1-3) Mitchell.

128. WORKSHOP IN THE SPACE ARTS. Practical problems with emphasis on methodical procedure in technical application of principles. 3-9 lab. Prereq., 6 hrs. and permission. (3) Mitchell.

131. MODELING AND SCULPTURE. Original interpretation of forms in clay, wood, and other suitable materials. 1 lec. and 6 lab. Fee, \$3. Prereq., permission. (3) Bedford.

137-138. COSTUME DESIGN. Design in relation to dress. Designing for individual characters. Adaptations of historic styles to modern costume. Costumes for the stage and for pageants. 1 lec. and 3 lab. Prereq., 3, 12, or 71. (2) Way.

140. DESIGN APPLIED TO MATERIALS. Emphasis on the direct relation of design applied to both rigid and plastic materials. Problems in weaving, wood, metal, and cloth. 2 lec. and 4 lab. Fee, \$3. Prereq., permission. (3) Bedford.

147-148. PRINCIPLES OF THE SPACE ARTS IN ADVERTISING. Study of layout in advertising, including letterheads, broadsides, folders, stuffers, and newspaper and magazine layouts. 1 lec. and 3 lab. (2) Work.

152. BOOKBINDING. Practical problems in cardboard construction and bookbinding. 1 lec. and 3 lab. Fee, \$2. Prereq., 3, 12, or 101. (2) Bedford.

154. WEAVING. Experience in weaving as a medium of design expression. 1 lec. and 3 lab. Fee, \$2. (2) Bedford.

155-156. INTERMEDIATE ARCHITECTURAL DESIGN. Progressive drafting room problems in design of simple architectural buildings: office practice, requirements of client, site, materials, sketches, perspective and working drawings and models. 9 lab. Prereq., 104 and Phys. 114. (3) Patton.

160h. TEACHING OF THE SPACE ARTS. (Same as Ed. 160h) Prereq., 103, 115, and 117. (2) Way.

171-172. HOUSE DECORATION. Brief study of architectural details and historic styles of furniture as used in modern homes. Study of house plans, decorative treatments, and materials. 2 lec. and 4 lab. Prereq., 104 and 114. (3) Way.

207. ADVANCED DESIGN. Composition for decorative panels in different media with special emphasis on design. 2 lec. and 4 lab. Prereq., 114 and 117, or 211. (3) Willis.

209. PRINTS. Composition in linoleum blocks, Provincetown wood blocks, and in etching, aquatint, and dry-point. 2 lec. and 4 lab. Prereq., 12 hrs. including 45 or 71, and 117. (3) Work.

213-214. ADVANCED HOUSE DECORATION. Floor plans and elevations rendered in correct architectural manner. From these, perspective drawings are constructed and rendered in color. Research is stressed and original adaptations are made from styles of all periods. 2 lec. and 4 lab. Prereq., 172. (3) Way.

216. ADVANCED POTTERY. Pottery design, glazing and firing, with emphasis on technique and original plans. 1 lec. and 3 lab. Fee, \$2. Prereq., 12 hrs. including 115. (2) Bedford.

217-218. POSTER ADVERTISING AND INDUSTRIAL STYLING. Magazine, newspaper, and direct mail layouts. Designs for book jackets, packages, bottles, labels, and posters. 2 lec. and 4 lab. Prereq., 12 hrs. including 12 and 147. (3) Work and the staff.

221. ADVANCED COSTUME DESIGN. Application of principles to dress design. Study of the details of costume. 1 lec. and 3 lab. Prereq., 12 hrs. including 138. (2) Way.

225. ADVANCED JEWELRY AND METAL WORK. A continuation of P.A.A. 124. 1 lec. and 3 lab. Fee, \$2. Prereq., 12 hrs., including 124. (2) Willis.

249. ART SUPERVISION AND CURRICULA. (Same as Ed. 249) Art objectives. Projects in teaching and supervision in various types of schools and suggestions for growth toward the ideal situation. Prereq., 160h. (2) Way.

255-256. ADVANCED ARCHITECTURAL DESIGN. 15 lab. Prereq., 156, 175, C.E. 124, and 138. (5) Patton.

281. RESEARCH IN DESIGN. 3-15 lab. Prereq., 15 hrs. and permission. (1-5) The staff.

391. SEMINAR IN DESIGN. Prereq., 18 hrs. and permission. (1-5) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

HISTORY

7. INTRODUCTION TO THE FINE ARTS. Lectures and demonstrations planned to acquaint students with the fine arts field. (1) Fine Arts staff.

15. INTRODUCTION TO THE SPACE ARTS. A general survey of principles used in the graphic and plastic arts. (2) Patton.

21-22. HISTORY OF THE SPACE ARTS. The principal periods of history from the earliest times to the present are made familiar to the student through a study of the most significant surviving forms. (3) Lembach.

157. APPRECIATION OF THE SPACE ARTS. Appreciative study of line, mass, color, and form through design, architecture, sculpture, and painting. (1) Way.

175. AMERICAN ARCHITECTURE. The history of architecture in America with supplementary consideration of European building. Prereq., permission. (3) Patton.

176. MODERN PAINTING. A discussion of the factors which developed the modernists in painting is followed by an investigation of the impressionists, the post-impressionists, and the numerous schools which have followed them, both in Europe and America. (2) Patton, Lembach.

203. HISTORY OF ITALIAN RENAISSANCE PAINTING. The development of the history of painting in Italy during the Renaissance from the early Florentine and Sienese schools through the fifteenth and sixteenth centuries in central and northern Italy. The inter-relationship between this art and the art of other countries during the Renaissance. Prereq., 9 hrs. including 22. (3) Lembach, Patton.

204. HISTORY OF ITALIAN RENAISSANCE ARCHITECTURE AND SCULPTURE. The course parallels P.A.A. 203. Prereq., 9 hrs. including 22. (3) Patton, Lembach.

390. SEMINAR IN HISTORY OF THE SPACE ARTS. Prereq., 18 hrs. including 7 and 22. (2-5) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

REPRESENTATION

45. METHODS IN REPRESENTATION. A study of proportion, structure, depth, and action. 1 lec. and 3 lab. (2) Mitchell.

46. METHODS IN REPRESENTATION. Color variations in nature related to paint. 1 lec. and 3 lab. (2) Mitchell.

71. SKETCHING. Quick sketches from life including action and still poses of figures and animals, out-of-door sketching, and contour drawing of objects used in commercial advertising. 1 lec. and 3 lab. Fee, \$2. (2) Way.

77. PRINCIPLES OF PHOTOGRAPHY. Lectures on history and theory of photography and demonstration of methods. General laboratory technique. 1 lec. and 6 lab. Fee, \$1 for each credit hour. (1 or 3) Patton.

78. PRINCIPLES OF PHOTOGRAPHY. A continuation of P.A.A. 77 featuring application. 2 lec. and 3 lab. Fee, \$3. Prereq., 3 hrs. credit in 77. (3) Patton.

117. DRAWING. Modern composition and drawing from the post-impressionist point of view, using different mediums. 2 lec. and 4 lab. (3) Willis.

118. WATER COLOR. Painting of still life and landscape composition. 1 lec. and 3 lab. Prereq., 12 and 71 or 45 and 46, and 117. (2) Work.

121. REPRESENTATION. Practice in methodical representation from still life and cast models in several mediums. 1 lec. and 5 lab. Prereq., 45. (3) Mitchell.

130. THE DEPTH PROBLEM. Methodical practice with color variations in depth. 1 lec. and 5 lab. Prereq., 45, 46, and 121. (3) Mitchell.

133. NEWS PHOTOGRAPHY. Special course featuring photography for news publications. 1 lec. and 6 lab. Fee, \$3. Prereq., 77. (3) Patton.

143, 144. PRACTICAL PHOTOGRAPHY. Practice under laboratory conditions. Departmental requirements and those of campus organizations used as subject matter. 9 lab. Fee, \$3. Prereq., 45 or 46, and 78. (3) Patton.

205-206. PAINTING. Practical applications of theories and methods of representation in color mediums. 9 lab. Prereq., 12 hrs. including 130. (3) Mitchell.

208. MATERIALS. Source and nature of materials and tools used by the painter. 1 lec. and 4 lab. Prereq., 12 hrs. including 130. (2) Mitchell.

211. PRINCIPLES OF MODERN PAINTING. Foundations in the principles used by the post-impressionists. Practical problems developed in different media. 3 lec. and 5 lab. Prereq., 12 hrs. including 12 and 117, or 207. (4) Willis.

219-220. ADVANCED WATER COLOR. A study of current tendencies in painting. 1 lec. and 3 lab. Prereq., 12 hrs. including 118. (2) Mitchell.

257-258. LANDSCAPE PAINTING. 9 lab. Prereq., 20 hrs. including 206. (3) Mitchell.

271. ADVANCED PRACTICAL PHOTOGRAPHY. 2 lec. and 9 lab. Fee, \$5. Prereq., 144. (5) Patton.

331. PICTORIAL COMPOSITION. 9 lab. Prereq., 206 and permission. (3) Mitchell.

336. DECORATIVE COMPOSITION. 9 lab. Prereq., 331. (3) Mitchell.

393. SEMINAR IN PAINTING. Prereq., 331. (3-9) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

PERSONAL RELATIONS

1. COLLEGE PROBLEMS. A course of lectures and conferences during the first semester designed to help the student make his adjustments to the personal problems of university life. Required of all freshmen. (1) Voigt, Johnston.

201. MARRIAGE. An analysis of the problems of courtship, marriage, parenthood, and family adjustments in the light of current scientific and philosophical thinking on these topics. While the approach is clinical and the emphasis is on personal factors making for future wholesome marital adjustments, other factors are integrated in order that marriage may be seen in its broader social relations. Prereq., for undergraduate credit, senior rank and permission; for graduate credit, 12 hrs. social science, or 6 hrs. social science and 6 hrs. biology, and permission. (3) Patrick.

391. SEMINAR IN SUPERVISION AND GUIDANCE OF STUDENT LIFE. A study of the management and direction of women's dormitory units: personality and health adjustments, the objectives and philosophy of extra-class activities, orientation of freshmen to college life. The relationship between the academic and the social life of students forms the basis of discussion and reports. Problems are discussed from the standpoint of the psychological, sociological, and academic bearings on student life. Prereq., 18 hrs. social sciences. (2-6) Voigt.

393. LABORATORY IN SUPERVISION AND GUIDANCE OF STUDENT LIFE. This course is designed to give experience in office and counseling techniques through regular service in the office of the dean of women for those members of the course who do not hold fellowships. Fellows perform similar services but receive no academic credit since the service rendered is considered a partial fulfillment of the requirement for service implied in the fellowship stipend. Prereq., 18 hrs. social sciences. (2-4) Voigt.

395. THESIS IN SUPERVISION AND GUIDANCE OF STUDENT LIFE. An original research problem immediately related to the field of administration and counseling constitutes the basis of the thesis. Prereq., permission. (4-6) Voigt.

A SHORT COURSE FOR DEANS OF WOMEN AND ADVISERS OF GIRLS. This course will be offered from July 17 to August 4 inclusive, without credit.

The course is designed particularly for those who are engaged in the work of advising and counseling, as well as those seeking to know more about the field before making a final decision relative to entering it. The course consists of seminars, lectures, round tables, forums, and social hours. Three hours daily are spent in organized work. Minor research problems are carried on in closely related fields of interest; and in so far as time permits, a survey is made of literature and studies in the field of guidance. The course is directed by the dean of women. Lecturers are chosen from the fields of philosophy, education, psychology, and sociology. Much pleasure and value are derived from the housing arrangement by which the group lives together as a unit for the period of the course. Board and room for the period amounts to \$8 per week. An incidental fee of \$3 insures an adequate mimeographed report of the entire series of lectures and discussions. No credit. Voigt.

PHILOSOPHY

Professors Gamertsfelder, Houf; Instructor Martin

81. **PROBLEMS OF RELIGION.** Deals with some of the major religious and moral problems which perplex present-day youth. Selected problems are treated in lectures, readings, and class discussion. (1-3 as scheduled) Houf.

82. **INTRODUCTION TO THE BIBLE.** Considers the kinds of books in the Bible, their background and purposes, a sketch of the main ideas, and some methods of Bible study. (1) Houf.

83. **INTRODUCTION TO NEW TESTAMENT THOUGHT.** The social and religious background and the development of the New Testament writings. Study of the teachings of Jesus and Paul and the other important types of New Testament thought. (3) Houf.

84. **INTRODUCTION TO OLD TESTAMENT THOUGHT.** A study of the content and development of Hebrew thought, including early tradition, the ideals of the prophets, legal formalism, Jewish philosophizing, religious poetry, and the Messianic hope. (3) Houf.

85. **PRINCIPLES OF REASONING.** An elementary course in the general conditions and principles of right thinking; the spirit, aims, and methods of investigation in the physical and social sciences. (2) Martin.

87. **ELEMENTARY ETHICS.** The biological and social influences which affect behavior. Introduction to an ethical philosophy of life. Ample time is devoted to a consideration of contemporary personal and social problems. (2) Houf.

101. **GENERAL ETHICS.** Considers the development of moral ideas, the historical ethical theories, and a constructive moral philosophy including class discussion of the chief personal and social problems of current life. (3) Houf, Martin.

103. **INTRODUCTION TO PHILOSOPHY.** An elementary treatment of the underlying principles of knowledge and experience as found in the sciences, morals, religion, and art. The course aims to put the student in possession of the fundamental ideas necessary for forming a satisfactory philosophy of life. (3) Gamertsfelder.

105. **BRIEF INTRODUCTION TO PHILOSOPHY.** An abbreviation of Phil. 103 for students who desire an acquaintance with philosophy. Not open to students who have had Phil. 103. (2) Martin.

107. **THE WORLD'S GREAT RELIGIONS.** A historical and comparative treatment of the origins, literature, beliefs, practices, and values of the great religions of the world. (2-3 as scheduled) Houf.

109. **LOGIC.** A study of the principles and methods of sound reflective thinking as applied in the special sciences, in oral and written exposition, and in argumentation generally. Prereq., junior or senior rank. (2-3 as scheduled) Martin.

111. **BUSINESS AND PROFESSIONAL ETHICS.** The place of business and professional organizations in society; study of the ethical practices and standards in the business world and in some professions. Prereq., junior or senior rank. (2) Houf.

113. **AMERICAN PHILOSOPHY.** The thought movements in American history, with a view to explaining the philosophical background of our literature, social institutions, and national character. Prereq., 3 hrs. (2-3 as scheduled) Martin.

116. **GREAT THINKERS OF THE ORIENT.** Study of representative leaders of thought in ancient and modern China and India, acquainting the student with the chief ideas in the culture and civilization of the East. (2-3 as scheduled) Houf.

201. **HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY.** A historical introduction to the problems of philosophy emphasizing the relation of philosophical thought to the growth of the natural sciences and the changes in social theory. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science, or 3 hrs. and 12 hrs. English. (3) Martin.

202. **HISTORY OF MODERN PHILOSOPHY.** A history of the thought of some of the most influential of modern thinkers with special reference to cultural developments, including the Renaissance, the rise of Protestantism, Marxism, and Humanism. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science, or 3 hrs. and 12 hrs. English. (3) Martin.

204. **SOCIAL AND POLITICAL PHILOSOPHY.** An inquiry into the nature and purposes of social institutions. Special consideration is given to the competing political philosophies of our time, with their meanings for the state, economic activities, education, and general culture. Emphasis is placed upon the problems of democracy. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science. (2-3 as scheduled) Houf.

206. **CONTEMPORARY PHILOSOPHY.** The reading and discussion of selections from representative philosophers of the present and recent past. Acquaintance is made with the leading schools and movements in present-day philosophy. Prereq., 6 hrs. (2) Martin.

208. **PHILOSOPHY OF SCIENCE.** This course aims primarily to acquaint the student with the meaning and methods of science as an element of human culture. Prereq., 6 hrs., or 3 hrs. and 12 hrs. natural science. (2) Martin.

209. **PHILOSOPHY OF RELIGION.** The meaning of religion; the relation of religion to other aspects of culture; Christianity and other religions; the existence and nature of God, prayer, the soul and immortality; skepticism and faith. Prereq., 6 hrs. (3) Houf, Martin.

210. **MINOR STUDIES IN PHILOSOPHY.** A critical study of selected types of philosophy, or an investigation of minor problems in the history of philosophy. Prereq., 6 hrs. (1-6) Houf, Martin.

391. **SEMINAR IN PHILOSOPHY.** Especially assigned problems are treated

or the writings of important philosophers are read and critically examined. Prereq., 15 hrs. (2-6) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

PHYSICAL WELFARE .

Professor Bird; Associate Professor Hatcher; Assistant Professor Trepp;
Instructors Rhoads, LaTourrette, Spencer, Nessley, Brown, Whitney
Coaching Staff—See Athletics

MEN

1-2. SPORTS. The activities offered give the student a selection from the following sports: touch football, tennis, archery, basketball, tumbling, apparatus, fencing, volleyball, boxing and wrestling, handball, paddle tennis, softball, golf, fly and bait casting, badminton and folk dancing. Three hours a week. Fee, \$1. (1) Nessley and staff.

9-10. ADAPTED ACTIVITIES. Students whose exercise should be restricted are assigned to activities adapted to their special needs. Three hours a week. Fee, \$1. Prereq., permission. (1) Trepp.

22. PERSONAL AND PUBLIC HEALTH. This course provides students with a fundamental knowledge of the source of material and an appreciation of the means whereby the health of the individual and of the group may be improved. (3) Trepp.

101-102. SPORTS. Each semester students may elect from the following group two activities in which they are interested: tumbling and apparatus, handball, touch football, ping pong, cross country, boxing and wrestling, fencing, paddle tennis, volleyball, softball, horseshoe pitching, track and field, archery, fly and bait casting, golf, and tennis. Three hours a week. Fee, \$1. Prereq., 2 or 10. (1) Nessley and staff.

109-110. ADAPTED ACTIVITIES. For students whose activities must be limited. Three hours a week. Fee, \$1. Prereq., permission. (1) Trepp.

121-122. PHYSICAL ACTIVITIES. Theory and practice in the following: touch football, soccer, speedball, basketball, handball, swimming, elementary tumbling, apparatus, and fencing. Methods and materials for teaching games, and fundamental training. The last twelve weeks of the course include methods and practice in rhythmic activities. Five hours a week. Fee, \$1. Prereq., 102 or 110. (2) Herbert, Trepp, and staff.

123. PHYSICAL ACTIVITIES. The various techniques and procedures appropriate for the following activities: archery, golf, tennis, volleyball, and badminton. Consideration is given to individual and group methods. Three hours a week. Fee, \$1. Prereq., 122. (1) Herbert and staff.

124. PHYSICAL ACTIVITIES. Study of formal physical activities. Various systems are reviewed. The development of personal proficiency in the teach-

ing of formal work. The last six weeks of the course include methods and practice in boxing and wrestling. Three hours a week. Fee, \$1. Prereq., 123. (1) Rhoads and staff.

125. SCOUTING. The scout movement including organization and supervision of troops, test passing, hikes, company and general characteristics of boys. (1) Trepp.

127. FIRST AID. The treatment of emergencies and accidents in the home, on the street, in vocational pursuits, and on the athletic field. Emphasis on the teaching of safety in the schools. The American Red Cross First Aid Certificate is given to those who pass the required examination. Prereq., 22. (2) Herbert.

128. ATHLETIC TRAINING. This course includes massage and physiotherapy, both theory and practice. Prereq., 127 and Zool. 115. (1) Olson.

133. THEORY AND PRACTICE OF ADAPTED ACTIVITIES. The course includes the principles and practices in the development of good postural habits, activities for the permanently disabled, treatment of postural defects, exercises for the weak and underdeveloped. Prereq., 1 yr. zoology. (2) Trepp.

167d. COACHING OF BASEBALL. (Same as Ed. 167d) Fee, \$1. (1) Peden.

167e. COACHING OF BASKETBALL. (Same as Ed. 167e) Fee, \$1. (2) Trautwein.

167f. COACHING OF FOOTBALL. (Same as Ed. 167f) Fee, \$1. Prereq., junior rank. (2) Peden.

167t. COACHING OF TRACK. (Same as Ed. 167t) Coaching of track and field athletics. Fee, \$1. (1) Herbert.

171. PHYSICAL ACTIVITIES. Advanced practice in tumbling and apparatus. Some attention to pyramids, the physical education circus, and demonstration. An opportunity is given to the student to secure the American Red Cross Life Saving Certificate. Three hours a week. Fee, \$1. Prereq., 122. (1)

MEN AND WOMEN

30. INTRODUCTION TO PHYSICAL WELFARE. Consideration is given the following: history, purpose, growth and development of health service, health instruction, recreation and athletics, health and physical welfare as a profession, curricula, personal qualifications, specialization and social relationships. (1) Bird, Hatcher.

152. KINESIOLOGY. A study of muscular movements and muscular exercises in their relation to the problems of bodily development and efficiency. Includes the physiology of exercise. Prereq., Zool. 115. (2) Trepp.

153. NATURE AND FUNCTION OF PLAY. Play programs for schools, recreation centers, playgrounds, and scouting. Prereq., 6 hrs. (2) Bird.

167h. TEACHING OF HEALTH. (Same as Ed. 167h) Instruction, principles, and curricula used in presenting health information to children of the different school levels. Prereq., 22. (2) Trepp.

167p. TEACHING OF PHYSICAL WELFARE. (Same as Ed. 167p) Physical Education for elementary and secondary schools. Not required of majors. (1) Rhoads.

204. PRINCIPLES OF PHYSICAL WELFARE. Physical education in our modern program of education, its relationship to recreation and health education, and its contribution to living. Curriculum construction in the elementary and secondary schools. Prereq., 16 hrs. (2) Rhoads.

205. HISTORY OF PHYSICAL EDUCATION. A study of the development of various systems of physical education and the effects of them on our present day program. Prereq., 16 hrs. (2) Hatcher.

206. ORGANIZATION AND ADMINISTRATION OF PHYSICAL WELFARE. Physical and health education in elementary and secondary schools, normal schools, and colleges. Athletic management, intramural activities, inter-scholastic and intercollegiate athletics. Prereq., 16 hrs. (2) Bird.

209. PHYSICAL ACTIVITIES TESTS. A theoretical and practical study of available tests and measurements. Tests and measurements are analyzed to determine their place, use, and possibilities in the physical welfare program. Prereq., 10 hrs. (2) Nessley and staff.

249. COMMUNITY RECREATION. A course for leaders and those interested in guiding leisure time programs. Topics include: brief history of the play movement, programs and program making, general administration of playgrounds and community centers and activities. Prereq., 10 hrs. including 153. (2) Nessley and staff.

250. COMMUNITY RECREATION. A course including recreational crafts such as wood carving, clay modeling, leather craft, metal craft, rug weaving, etc. The various departments specializing in these crafts furnish the instruction. Prereq., 10 hrs. including 153. (2) Bird and others.

252. SCHOOL HEALTH PROGRAM. This course is concerned with the healthful school environment, teacher-pupil relationship, follow-up service, safety and accident prevention, and additional content necessary to construct an adequate school health program. Prereq., 16 hrs. including 22. (3) Trepp.

351. HEALTH PROBLEMS. A survey of the contents and relationship of the current problems in health education. An opportunity for the investigation of specific problems and for the study of techniques. Prereq., 15 hrs. (3) Trepp, Burger.

352. PHYSICAL DIAGNOSIS. A study of the fundamental deficiencies and defects characteristic of children that handicap normal physical, mental, and social development. A study of the techniques in conducting health examinations, clinical service, etc. Prereq., 15 hrs. (3) Burger.

391. SEMINAR IN PHYSICAL WELFARE. For students who desire to pursue special research or investigation in physical welfare. Reviews of current

literature and discussions of physical activities. Prereq., 15 hrs. (3) Bird and staff.

395. THESIS. Prereq., permission. (4-8) The staff.

WOMEN

1, 2. SPORTS. Activities are offered according to the season. Students may choose from hockey, soccer, basketball, badminton, tennis, archery, volleyball, baseball, track and field. Three hours a week. Fee, \$1. (1) The staff.

3-4. SWIMMING. Instruction in strokes and diving according to student's ability. Three hours a week. Fee, \$1. (1) Spencer.

5. FOLK AND NATIONAL DANCING. Three hours a week. Fee, \$1. (1) Hatcher, LaTourrette.

6. ELEMENTARY TAP DANCING. Three hours a week. Fee, \$1. (1) Brown, Whitney.

7-8. MODERN DANCE. Fundamentals of body and locomotor movement. A study of the elements of dance composition with opportunities for creative work. Three hours a week. Fee, \$1. (1) Whitney.

9, 10. ADAPTED ACTIVITIES. For students with postural defects and students whose activities must be restricted. Three hours a week. Fee, \$1. Prereq., permission. (1) Brown.

18. LIFE SAVING METHODS. All techniques included in the test for the Senior American Red Cross Life Certificate are covered and the certificate is granted upon satisfactory completion of the required work. Three hours a week. Fee, \$1. (1) Spencer.

22. PERSONAL AND PUBLIC HEALTH. A course aiming to give the student knowledge of public, personal, and sex hygiene. (3) Hatcher, Druggan.

27. FUNDAMENTAL RHYTHMS. (Summer session only) Materials for various rhythmic activities at different grade levels. The activities and methods are adapted to meet the needs of the group. Fee, \$1. (1) Whitney.

101, 102. SPORTS. Activities are offered according to season. Three hours a week. Fee, \$1. (1) Hatcher.

103-104. SWIMMING. Instruction in strokes and diving according to student's ability. Three hours a week. Fee, \$1. (1) Spencer.

105, 106. TAP DANCE. Tap dances of a skill level adapted to the group. Three hours a week. Fee, \$1. Prereq., 6. (1) Brown.

107-108. MODERN DANCE. Fundamentals of dance with a study of the elements of dance composition and opportunities for creative work. Three hours a week. Fee, \$1. Not open to those who have had P. W. 8. (1) Whitney.

109, 110. ADAPTED ACTIVITIES. For students whose activities must be restricted. Three hours a week. Fee, \$1. Prereq., permission. (1) Brown.

111-112. **ADVANCED SWIMMING.** Includes instruction in all strokes, diving, life saving, and watermanship in general. Three hours a week. Fee, \$1. Prereq., permission. (1) Spencer.

113. **HIKING.** Hikes are varied as to distance and places visited. First aid and rules of the road for hikers are included. Three hours a week. Fee, \$1. (1) LaTourrette.

114. **CAMP CRAFT.** This includes outdoor cooking and practice in living comfortably in the out-of-doors. One overnight hike is required. Three hours a week. Fee, \$1. (1) LaTourrette.

115-116. **MODERN DANCE, ADVANCED.** Three hours a week. Fee, \$1. Prereq., 108. (1) Whitney.

121, 122. **PHYSICAL ACTIVITIES.** Team and individual sports technique, dancing, swimming, squad work in self-testing activities, track and field. Students are given achievement tests and assigned activities and credit according to test results. Fee, \$1. (1-3) The staff.

125. **THE ESSENTIALS OF GIRL SCOUTING.** A general introduction to the girl scout program. A week-end is spent at the local camp to give practical experience in conducting hikes and in doing out-door cooking. Hobbies in handicraft and in nature, and recreational games and activities are emphasized. (2) LaTourrette.

126. **SCOUTING PRACTICE.** The course consists of actual participation as an assistant in one of the local troops. Prereq., 125. (1) LaTourrette.

127. **FIRST AID.** Consideration is given to theory and practice of first aid and massage. Some emphasis is placed upon the treatment of athletic injuries. Students are eligible to take the American Red Cross First Aid Instructor's examination. (2) LaTourrette.

131. **MASS GAMES.** Fee, \$1. (1) LaTourrette, Spencer.

132. **PHYSICAL WELFARE PRACTICE.** Practice of activities suitable for the elementary schools. Three hours a week. Fee, \$1. (1) LaTourrette.

133. **THEORY OF ADAPTED ACTIVITIES.** The organization of programs specifically adapted to the needs of physically handicapped individuals. The abnormal conditions of neuromuscular hypertension, weak feet, infantile paralysis, scoliosis, cardiac defects, dysmenorrhea, post operative cases, etc. are described and therapeutic measures evaluated. Prereq., 152. (2) Brown.

134. **PRACTICE OF ADAPTED ACTIVITIES.** A course in the practice of orthopedic work. Prereq., 133. (1) Brown.

135. **MATERNAL AND CHILD HEALTH.** The course deals with the normal biological and physiological processes of human reproduction together with the varied factors which contribute to abnormalities and mortality of both mother and child. (2) Druggan.

136. **THEORY OF DANCE.** A study of the history, theory, principles, and philosophy underlying dancing from primitive times. Particular emphasis is given to trends in the modern dance. Prereq., 7 or 107. (1) Whitney.

137, 138. DANCE PROBLEMS. Problems adapted to the individual, an opportunity for creative work. Compositions constructed, analyzed, and discussed. Directed readings on dance and related arts and a survey and evaluation of present theory and practice. Prereq., 116 and permission. (1-2) Whitney.

139. ATHLETIC OFFICIATING. Theory and practice of officiating field hockey and basketball. (1) Hatcher.

140. ATHLETIC OFFICIATING. Theory and practice of officiating volleyball, soccer, baseball, and track. (1) LaTourrette.

142. CAMPING METHODS. Consideration is given the following: history, purpose, values, programs, qualifications and responsibilities of directors and counselors of all types of camps. Prereq., 2 hrs. (2) LaTourrette.

167a. TEACHING OF COACHING—WOMEN. (Same as Ed. 167a) Theory and practice of coaching field hockey and basketball. Fee, \$1. (2) Hatcher.

167b. TEACHING OF COACHING—WOMEN. (Same as Ed. 167b) Theory and practice of coaching volleyball, soccer, baseball, track and field activities. Fee, \$1. (2) LaTourrette.

167s. TEACHING OF SWIMMING—WOMEN. (Same as Ed. 167s) (2) Spencer.

171, 172. ORGANIZATION OF PHYSICAL ACTIVITIES. Theory and practice of activities suitable for the junior and senior high schools. 1 lec. and 3 lab. Fee, \$1. (2) The staff.

175. A SCHOOL PHYSICAL WELFARE PROGRAM. (Summer session only) A summer session substitute for P. W. 171, 172. (2) Hatcher.

177. MASSAGE AND THERAPEUTICS. An advanced course in the principles of massage and the practical application of these principles to athletic injuries, fractures, and paralysis. Prereq., 127. (2) Brown.

PHYSICS

Associate Professor McClure;

Assistant Professor Roseberry; Instructors Edwards, Bundy

The major requirement in physics for the B. S. degree is a minimum of 36 semester hours, including Phys. 113, 114; 205; 206; 208; 219-220 or 253-254, 223-224 or 249, 250; 225, 226; and electives from the following: Phys. 211, 214, 225, 226 (2-6); 239-240, 261, and 271-272.

1, 2. THE PHYSICAL WORLD. The principles underlying nature's activities, their relation to man's needs and interests, and their application in the development of devices and conveniences in modern life. 2 lec. and 2 lab. Fee, \$3. (3) Bundy.

3, 4. THE PHYSICAL WORLD. Not open to students in the University College who are required to have a physical laboratory science. (3) Edwards.

5, 6. INTRODUCTION TO PHYSICS. Mechanics, heat, sound, electricity, magnetism, and light. Indicated for nontechnical and premedic students. 3 lec. and 2 lab. Fee, \$4. (4) Edwards, Roseberry.

113, 114. GENERAL PHYSICS. 3 lec. and 2 lab. Fee, \$4. Prereq., Chem. 4 and Math. 6. (4) McClure, Roseberry.

168p. TEACHING OF PHYSICS. (Same as Ed. 168p) (Summer session only) This course aims to give the teacher or prospective teacher of elementary physics a working knowledge of the teaching of physics by defining the aims and methods of the subject, by practical suggestions as to subject matter, and by particular reference to the development method of presenting the material. Prereq., one course in physics. (2) Green.

205. LIGHT: INTRODUCTION TO PHYSICAL OPTICS. The elementary theory of interference, polarimetry, and special topics of physical optics. Emphasis is placed on experimental and practical applications. It is recommended to be taken in conjunction with Physics 206. Prereq., 113 and 114. (2) Roseberry.

206. EXPERIMENTAL PHYSICAL OPTICS. Practical experimental experience in the use and arrangement of apparatus which involve the principles of physical optics. Special attention is given to the diffraction grating, Michelson interferometer, spectrometer, and polarimeter. 2 lab. Prereq., 113 and 114. Fee, \$1. (1) Roseberry.

208. X RAYS. A descriptive course of the principles and applications of X rays to the problems of physics, medicine, and industry. A study of X-ray productions, absorption, scattering, refraction, crystal diffraction, radiography, X-ray therapy, and applications of X rays to metallurgy. Prereq., 113 and 114. (2) Roseberry.

211. PHYSICAL OPTICS. Designed to develop the theory of those phenomena of light which are characteristic of waves. The exact relations between refraction and wave length. The design of achromatic lenses. Diffraction phenomena of single and of many slits. Prereq., 113, 114, and Math. 118. (3) Roseberry.

214. MODERN SPECTROSCOPY. The principles and application of spectroscopy. The following topics are discussed: origin of spectra; Ritz principle of combination; Bohr's explanation, series lines in the spectra; neutral and ionized states, ionization potentials, electron orbits; elementary quantum mechanics; and the effect of electric and magnetic fields on a spectral line. Prereq., 113 and 114. (3) Roseberry.

219-220. ELECTRICITY AND MAGNETISM. An advanced course including also electrochemical properties of various substances, the calculation of magnetic fields by integration methods, a study of transient currents through inductive and capacitive circuits. Prereq., 113, 114, and Math. 118. (3) Bundy.

223-224. IONS, ELECTRONS, AND IONIZING RADIATIONS. Some of the topics are: properties of gaseous ions, the charge of an ion, ionization by collision, cathode rays, emission of electricity from hot bodies, X rays, radium and its products, the electron theory of matter. Prereq., 113, 114, and Math. 118. (3) McClure.

225, 226. ADVANCED PHYSICS LABORATORY. Prereq., 113, 114, and Math. 118. The staff.

- a. Mechanics and Heat. Determination of "g" with physical pendulum with Kater's pendulum; torsional hysteresis, elastic curves, determination of coefficient of viscosity, surface tension; thermo-couples, heat content of a gas; use of the optical pyrometer. Fee, \$3. (3)
- b. Electricity and Magnetism. Calibration of a galvanometer, Raleigh potentiometer, dielectric constants, study of ballistic galvanometer, transients, magnetic hysteresis, use of the oscillograph. Fee, \$3. (3)
- c. Advanced Optics. Determination of refractive indices with the spectrometer and refractometer, measurement of wave length with the grating, use of the interferometer and the polarimeter, spectrum analysis. Fee, \$3. (3)
- d. Electronic Physics. Theory and use of the electrometer, the electro-scope for the comparison of radio-activities, the three-electrode tube, verification of Richardson's equation, the Tungar rectifier, conductivity of flames, determination of the charge of the electron, Laue and powder methods for the determination of crystal structure. Fee, \$1 for each credit hour. (1-3)
- e. Sound. Frequency measurements of strings, forks, pipes, plates, bars, and cavities. Cathode ray oscilloscope, and neon stroboscope. Sound intensity measurement with Raleigh disk and sound intensity meter. Mechanical and acoustical impedance of speakers. Sound velocity measurements. Fee, \$1 for each credit hour. (1-3)

239-240. GENERAL THERMODYNAMICS. Prereq., 113, 114, and Math. 118. (3) McClure.

249, 250. INTRODUCTION TO MODERN PHYSICS. Some topics are: elementary quantum of electricity, corpuscular radiations, elementary quantum action, spectra of hydrogen and ionized helium, X-ray spectra, optical spectra, and molecular spectra. Prereq., Math. 118. (2) Edwards.

253-254. ADVANCED SOUND. The fundamentals of sound theory, beginning with a study of vibratory motion in strings, rods, plates, and pipes; analysis of sound, transmission theory of sound, measurement of sound intensity, interference patterns, and stationary waves. Prereq., 113, 114, and Math. 118. (2) Green.

261. MINOR PROBLEMS IN PHYSICS. The course permits qualified students to carry out a minor research in any field of physics in order to increase their knowledge and techniques. Prereq., 113, 114; 205, 206, and 208 or 223-224 or 225, 226 or 249, 250; and permission. Fee, \$1 for each credit hour. (1-4) The staff.

271-272. PHYSICS OF THE AIR. An advanced technical study of the me-

chanics and thermodynamics of the atmosphere, atmospheric electricity and auroras, meteorological acoustics, atmospheric optics. Prereq., 113, 114, and Math. 118. (3) McClure.

305-306. THEORETICAL PHYSICS. Advanced dynamics, Lagrange's equations, Hamilton's principle, canonical equations, Hamiltonian-Jacobi equation, hydrodynamics, statistical mechanics, kinetic theory. Prereq., 225, 226, and Math. 215. (3) Edwards.

311-312. ADVANCED ATOMIC STRUCTURE AND THEORY OF QUANTA. Elementary constituents of the atom, hydrogenic atoms and their spectra, general theorems of optical spectra, old quantum theory, X-ray and molecular spectra. Prereq., 225 and 226. (3) Roseberry.

381. RESEARCH IN PHYSICS. Fee, \$1 for each credit hour. Prereq., 225 and 226. (1-6) The staff.

391. SEMINAR IN PHYSICS. Prereq., 15 hrs. (1) The staff.

395. THESIS. Prereq., permission. (4-6) The staff.

PSYCHOLOGY

Professors Porter, Lehman, Anderson, Patrick;
Associate Professors Scott, Paulsen; Assistant Professor Gentry

The major requirement in psychology is 24 semester hours including Psych. 1, 2, 109, and 225 with the remaining hours approved by the department advisers. The following courses in other departments and colleges are suggested: Ed. 281, Math. 226, P. R. 201, Stat. 155-156, and Zool. 204.

1. GENERAL PSYCHOLOGY. An elementary, scientific study of the most significant facts and principles of mental life. Lectures, class demonstrations, discussions. Fee, \$1. (3) The staff.

2. GENERAL PSYCHOLOGY. Emphasis upon the main problems of psychology, giving the points of view of the different schools. Many fields of psychology are rapidly surveyed. Prereq., 1. (3) Scott.

3. CHILD PSYCHOLOGY. Topics considered: sensory life of child, emotions, curiosity, imagination, memory, imitation, language, art, moral and religious development. Prereq., 1. (3) Porter.

4. BUSINESS PSYCHOLOGY. A survey of general psychological principles essential for effective adjustment of the individual in business and industry. Prereq., 1. (3) Paulsen.

5. EDUCATIONAL PSYCHOLOGY. The nature and rate of the learning process. The influence upon learning efficiency of such factors as heredity and environment, maturation, emotion, motivation, etc. Fee, \$1. Prereq., 1. (3) Lehman, Anderson, Patrick, Paulsen, Gentry.

6. THE PSYCHOLOGY OF ADVERTISING AND SELLING. Prereq., 1. (3) Anderson.

7. GENERAL PSYCHOLOGY WITH LABORATORY. 3 lec. and 2 lab. Fee, \$4.
(4) Paulsen, Curtis.

8. INTRODUCTION TO APPLIED PSYCHOLOGY. The application of psychological knowledge to everyday life situations. Prereq., 1. (3) Scott, Paulsen.

10. INTRODUCTION TO PSYCHOLOGY OF PERSONALITY. The elementary facts and principles of personality; its measurement by modern methods and the practical application of these measurements particularly to the problems of the student. Prereq., 1. (3) Porter.

109. EXPERIMENTAL PSYCHOLOGY. Training in the scientific methods and tools of modern experimental psychology. Individual reports of experiments in the following fields: sensory processes, individual differences, learning, memory, etc. 2 lec. and 4 lab. Fee, \$3. Prereq., 1. (3) Paulsen.

113. PSYCHOLOGY OF JUNIOR AND SENIOR HIGH SCHOOL PUPILS. A study of the contributions to adolescent personality of physical growth, glandular changes, and emotions; interests, religious experience, and maladjustments are also considered. Prereq., 1. (2) Gentry.

116. PSYCHOLOGY OF INDIVIDUAL DIFFERENCES. The extent and the nature of individual differences, the influence thereupon of such factors as heredity, environment, race, nationality, age, and sex. Miscellaneous applications are also considered. Prereq., 1. (2) Lehman.

201. ADVANCED EXPERIMENTAL PSYCHOLOGY. Research on a topic selected by the student. Fee, \$3. Prereq., 109 and 3 hrs. additional. (3) Paulsen.

203. MENTAL MEASUREMENTS. The administration, methods, and results of individual and group intelligence tests. 2 lec. and 1 lab. Fee, \$1. Prereq., 6 hrs. (3) Porter, Anderson, Paulsen.

204. PSYCHOLOGY OF EXCEPTIONAL CHILDREN. The growth and development of non-typical children with special reference to the nature, the cause of, and the possibility of remedial treatment. Speech disorders, left-handedness, deafness, blindness, delinquency, psychopathy, special talents and defects, and other characteristics of extreme deviates are considered. Prereq., 8 hrs. (2) Lehman.

205. CLINICAL PSYCHOLOGY. Lectures, discussions, and observations of selected cases. Survey of methods in clinical diagnosis of problem children and adults. Prereq., 9 hrs. including 203. (3) Gentry.

207. COMPARATIVE AND GENETIC PSYCHOLOGY. Behavior of lower and higher organisms leading up to man is considered. A comparative-genetic-psycho-biological approach is maintained. 2 lec. and 2 lab. Fee, \$3. Prereq., 8 hrs., or 6 hrs. and 6 hrs. zoology. (3) Patrick.

209. MOTIVATION. The dynamics of animal and human behavior: a study of drives, desires, wishes, incentives, etc. Prereq., 8 hrs., or 6 hrs. and 6 hrs. zoology. (3) Patrick.

210. **MENTAL HYGIENE.** The course aims to evaluate and synthesize information bearing upon mental health from the following fields: psychology, psychiatry, physiology, medicine, and sociology. Prereq., 8 hrs., or 6 hrs. and 6 hrs. sociology. (3) Patrick.

212. **ABNORMAL PSYCHOLOGY AND MENTAL HYGIENE.** Considers man's mental deviations from the normal; the theory, application, and limitations of psycho-analysis; methods of studying abnormal mental processes. Clinics at hospitals. 2 lec. and 1 lab. Fee, \$1. Prereq., 8 hrs., or 6 hrs. and 6 hrs. zoology. (3) Porter.

214. **PSYCHOLOGY OF RELIGION.** Prereq., 6 hrs. and permission, or 6 hrs. and 6 hrs. philosophy. (2) Anderson.

215. **SOCIAL PSYCHOLOGY.** An introductory study of the social-mental relations between individuals, significance of instincts, habit formation, and reflection in human social life. Methods of investigating social behavior. Prereq., 6 hrs. (3) Porter.

217. **THE PSYCHOLOGY OF PERSONALITY.** Influence of home and school on training and development of children's personality; also adult personality in business and social life. Prereq., 8 hrs. (3) Porter.

219. **ADVANCED CLINICAL PSYCHOLOGY.** Etiology of behavior disturbances. Symptomatic approach to clinical diagnosis emphasized. Prereq., 12 hrs. including 205. (3) Gentry.

220. **THE PSYCHOLOGY OF PERSONNEL.** The study and solution of significant human problems in modern industrial, commercial, and educational institutions. To train students for positions as personnel workers. Prereq., 8 hrs. (2) Porter.

225. **MINOR PROBLEMS IN PSYCHOLOGY.** Training in the scientific study of some problem of special interest to the student. Relatively independent work emphasized. Prereq., 8 hrs. and permission. (1-6) The staff.

233. **LEARNING AND MEMORY.** Lectures and readings attempting to systematize the experimental and theoretical work in this field. Prereq., 8 hrs. (2) Anderson.

235. **HISTORY OF PSYCHOLOGY.** The evolution of methods and concepts of psychology with emphasis on more recent trends. Prereq., 8 hrs. (2) Scott.

237. **FEELINGS, EMOTIONS, AND AESTHETICS.** An analysis of studies of the feelings, emotions, and sentiments, and the role they play in aesthetic appreciation, particularly music and art. Prereq., 6 hrs. (2) Patrick.

241. **CURRENT PSYCHOLOGICAL LITERATURE.** An attempt to acquaint the student with the leading psychological journals, recent books, and their current contribution. Prereq., 9 hrs. (2) Porter.

278. **ADVANCED EDUCATIONAL PSYCHOLOGY.** A comprehensive study of the acquisition of important skills and knowledges, interests, attitudes, and

ideals; problem solving; expression and creative activity; social growth and character formation. Prereq., 5. (3) Lehman.

302. **ADVANCED MENTAL MEASUREMENTS.** Special emphasis on use of performance and special tests. Clinical and diagnostic significance of special tests and of test items within the Stanford-Binet. 1 lec. and 1 lab. Fee, \$1. Prereq., 15 hrs. (2) Anderson.

381. **RESEARCH IN PSYCHOLOGY.** Prereq., 15 hrs. and permission. (2-4) The staff.

391. **SEMINAR IN PSYCHOLOGY.** Reports on recent books and articles. Methods of investigation and statistical treatment emphasized. Prereq., 15 hrs. and permission. (2-6) Porter.

394. **ADVANCED SEMINAR IN PSYCHOLOGY.** 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. (2-4) The staff.

395. **THESIS.** Prereq., permission. (4-8) The staff.

ROMANCE LANGUAGES

Professors Noss, Whitehouse, Wilkinson;
Associate Professor Ondis; Assistant Professor Leete;
Instructors Renkenberger, Rice

The major requirement in French, Italian, or Spanish for the A. B. degree is 20 semester hours above course 1-2 in the language. A major in Romance languages or Romance philology consists of 20 semester hours above course 1-2 in one language and at least one year in each of the two other Romance languages.

FRENCH

1-2. **BEGINNING FRENCH.** Essentials of grammar, pronunciation, conversation, and reading. (4) The staff.

101-102. **INTERMEDIATE FRENCH.** Grammar review, drill in idioms and composition, and reading of fairly difficult material in modern French literature. Prereq., 2 or 2 yrs. high school French. (4) The staff.

119, 120. **FRENCH CIVILIZATION.** Lectures on the geography, history, current events, customs, government, education, science, press, art, and music of France. Readings in French and discussions in English. Prereq., 102. (2) Noss.

123, 124. **FRENCH CONVERSATION.** This course affords an opportunity to develop the student's ability to speak French. A class text and French periodicals are used for subject matter. A simultaneous literature course is also recommended. Prereq., 102 or 3 yrs. of high school French. (1) Noss.

165f. TEACHING OF FRENCH. (Same as Ed. 165f) Prereq., 102. (2) Noss.

165o. TEACHING OF FRENCH AND ADVANCED FRENCH GRAMMAR. (Same as Ed. 165o) Prereq., 261 or, in unusual cases, special permission and 102. (2-3) Wilkinson.

201, 202. SURVEY OF FRENCH LITERATURE. Lectures, readings, and reports affording a general view of the subject from the beginning to the present time. Lectures are given in French with regular class tests in English. Special topics for investigation by advanced students. Prereq., 102. (1-4) Wilkinson.

203, 204. READINGS FROM FRENCH LITERATURE. Selections vary with the needs of the class or the student. Prereq., 102. (1-4) The staff.

211, 212. SEVENTEENTH CENTURY DRAMA. A study of the comedies of Moliere and the tragedies of Corneille and Racine. Prereq., 102. (3) Noss.

215. FRENCH PHONETICS. (1940-1941) French pronunciation by the use of international phonetic symbols. Analysis of sounds and their formation, principles of syllabication, and intonation. Use of phonograph records. Prereq., 102. (2) Noss.

219, 220. FRENCH ROMANTICISM. (1941-1942) A study of the development of lyric poetry, the novel, and the drama during the first half of the nineteenth century. Prereq., 6 hrs. beyond 102. (2) Noss.

225. OLD FRENCH LITERATURE. French literature to the end of the fifteenth century. No previous knowledge of Old French is required. A modern French translation accompanies the Old French in the text used. Prereq., 6 hrs. beyond 102. (2) Noss.

228. SIXTEENTH CENTURY FRENCH LITERATURE. Development of French thought during the Renaissance as seen in the works of Rabelais, Calvin, the Pleiade, Montaigne, and others. Prereq., 6 hrs. beyond 102. (2) Noss.

231, 232. SEVENTEENTH CENTURY FRENCH LITERATURE. Study of seventeenth century literature, with the exception of the drama. Selected readings from Malherbe, Descartes, Pascal, La Fontaine, Mme. de Sevigne, Boileau, Mme. de La Fayette, La Rochefoucauld, La Bruyere, and Fenelon. Prereq., 102. (2-3 as scheduled) Noss.

235. EIGHTEENTH CENTURY FRENCH LITERATURE. (1940-1941) The works of the chief dramatists of this period, including Lesage, Voltaire, Marivaux, Diderot, Sedaine, and Beaumarchais. Prereq., 102. (2) Renkenberger.

236. EIGHTEENTH CENTURY FRENCH LITERATURE. (1940-1941) The literature of this period exclusive of the drama. Works of Montesquieu, Diderot, Voltaire, Rousseau, and Chenier are read. Prereq., 102. (2) Renkenberger.

239, 240. NINETEENTH CENTURY FRENCH DRAMA. History of the French drama beginning with the pre-romantic movement and continuing to the present. Lectures in French with regular class tests in English. Special topics for investigation by advanced students. Collateral readings and reports. Prereq., 102. (1-4 as scheduled) Wilkinson.

243, 244. **ADVANCED FRENCH COMPOSITION.** Includes drill in pronunciation. Prereq., 102. (1-2 as scheduled) Wilkinson.

251, 252. **MODERN FRENCH FICTION.** (1941-1942) A reading course on the novel from 1880 to the present. The ability to understand and use spoken French with ease is not required. Prereq., 102. (3) Noss, Leete.

261. **ADVANCED FRENCH GRAMMAR.** Prereq., 3 yrs. of college French or B in Fr. 102. (1-3) Wilkinson.

271. **ADVANCED FRENCH.** Specialized courses conducted in French designed to meet the special interests of advanced students. Prereq., 9 hrs. beyond 102. (1-32) Noss.

- b. Boileau
- d. Modern French Drama
- m. Moliere
- n. Modern French Novel
- po. Nineteenth Century Poetry
- pr. Seventeenth Century Prose
- r. Racine
- s. Mme. de Sevigne

281. **RESEARCH IN FRENCH LANGUAGE AND LITERATURE.** A course designed to promote independent work in the study of special linguistic and literary problems. Prereq., 14 hrs. beyond 102 and permission. (1-4 each semester) The staff.

321-322. **ROMANCE PHILOLOGY (OLD FRENCH).** See Romance Philology.

325-326. **ROMANCE PHILOLOGY (SOUTHERN FRENCH AND CATALAN).** See Romance Philology.

395. **THESIS.** Prereq., permission. (4-8) The staff.

ITALIAN

1-2. **BEGINNING ITALIAN.** Pronunciation, principles of Italian grammar, and practice in the use of the language. (1-5 as scheduled) The staff.

101-102. **INTERMEDIATE ITALIAN.** Review grammar, idioms, and reading in modern Italian literature with some emphasis on diction and conversation; also a systematic study of the verb. Prereq., 2 or 2 yrs. high school Italian. (1-4 as scheduled) The staff.

103. **ITALIAN CULTURE AND CIVILIZATION.** Background of the culture of Italy as reflected in its art, literature, social and political institutions. Regional customs. Given in English. (1) Ondis.

201, 202. **SURVEY OF ITALIAN LITERATURE.** Brief outline of the history of Italian literature given in English or in Italian according to the nature and preparation of the class. Prereq., 102. (1-3 as scheduled) The staff.

203, 204. **READINGS FROM ITALIAN LITERATURE.** Selections vary with the needs of the class or the student. Prereq., 102. (1-4) The staff.

209, 210. ITALIAN COMPOSITION. An advanced course. Prereq., 102. (1-2) The staff.

271. ADVANCED ITALIAN. Advanced work in language and literature with special instruction of a technical character in Italian. Individual work done under the guidance of instructors. Prereq., 20 hrs. (1-32) The staff. The offerings are as follows:

- a. General introduction to the study of the literature of the thirteenth century, including the chief philological principles involved in the formation of Old Italian.
- b. The fourteenth century, including special study of Dante, Petrarch, or Boccaccio.
- c. The Renaissance in Italy.
- d. Il Seicentismo. Decadence and affection in Italian letters with consideration of analogous movements in other modern literatures.
- e. The eighteenth century, including Goldoni and Alfieri.
- f. The nineteenth century. Romanticism and the Risorgimento.
- g. Contemporary Italian literature.
- h. Storia dell' Italia Moderna.

331-332. ROMANCE PHILOLOGY (OLD ITALIAN). See Romance Philology.

395. THESIS. Prereq., permission. (4-8) The staff.

ROMANCE PHILOLOGY

1. PRONUNCIATION OF ROMANCE LANGUAGES. Pronunciation of French, Italian, and Spanish. No previous knowledge of the languages is required or presupposed. (1) Wilkinson.

225-226. GENERAL ROMANCE LINGUISTICS. Introduction to graduate courses in philology. A study of Vulgar Latin forms in connection with the general philology of French, Italian, Portuguese, and Spanish. Correct pronunciation of the modern languages is stressed. Prereq., Fr., It., or Sp. 102, and another Rom. Lang. 2 or Lat. 102. (1) Wilkinson.

321-322. ROMANCE PHILOLOGY (OLD FRENCH). Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in French. Prereq., 16 hrs. in French and 16 hrs. in another Romance language or in Latin. Rom. Philol. 226 is advised but not required. (2) The staff.

325-326. ROMANCE PHILOLOGY (OLD PROVENÇAL—SOUTHERN FRENCH AND CATALAN). Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Provençal. Prereq., 16 hrs. in each of two Romance languages or in one Romance language and Latin. Rom. Philol. 226 is advised but not required. (2) The staff.

331-332. ROMANCE PHILOLOGY (OLD ITALIAN). Phonology and morphology for thorough preparation of necessary linguistic background, with readings

from the most ancient literary monuments in Italian. Prereq., 16 hrs. in Italian and 16 hrs. in another Romance language or in Latin. Rom. Philol. 226 is advised but not required. (2) The staff.

341-342. ROMANCE PHILOLOGY (OLD SPANISH AND PORTUGUESE). Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Spanish and Portuguese. Prereq., 16 hrs. in Spanish and 16 hrs. in another Romance language or Latin. Rom. Philol. 226 is advised but not required. (2) The staff.

391. SEMINAR IN ROMANCE PHILOLOGY. Prereq., 226, Rom. Lang. 102 in two of the languages, and Rom. Lang. 2 in the third. (2-4) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

SPANISH

1-2. BEGINNING SPANISH. Introduction to the rudiments of Spanish grammar. Reading and practice in conversation. (4) The staff.

101-102. INTERMEDIATE SPANISH. Review of grammar, study of idioms, composition, conversation, varied reading in modern literature. Prereq., 2 or 2 yrs. high school Spanish. (4) The staff.

103. SPANISH CULTURE AND CIVILIZATION. The history, literature, and cultural development of Spain. Conducted in English. (1) Whitehouse.

113, 114. SPANISH COMPOSITION AND CONVERSATION. Prereq., 102. (2) Whitehouse, Ondis.

165s. TEACHING OF SPANISH. (Same as Ed. 165s) This course deals with a study of classroom procedure and modern language bibliography, selection of suitable texts, and the development of Spanish civilization. Prereq., 102. (2) Whitehouse, Ondis.

201, 202. SURVEY OF SPANISH LITERATURE. (1940-1941) Historic and literary study of Spain from the middle ages to the present time. Prereq., 102. (3) Whitehouse, Ondis.

203, 204. READINGS FROM SPANISH LITERATURE. Selections vary with the needs of the class and the student. Prereq., 102. (1-4) The staff.

207. THE GOLDEN AGE. Historic and literary study of the sixteenth and seventeenth centuries. Works of the leading dramatists, as Lope de Vega, Calderon, Tirso de Molina, etc., and some prose, except Cervantes, are read. Prereq., 102. (2-3 as scheduled) Whitehouse, Ondis.

208. CERVANTES. The chief works of Cervantes are studied, with particular attention to the *Novelas Ejemplares* and the *Quijote*. Prereq., 102. (3) Whitehouse, Ondis.

209, 210. OLD SPANISH. Readings in Spanish literature prior to the fifteenth century. The *Poema del Cid* is read and studied with attention given to the development of the Spanish language. Prereq., 102. (1) The staff.

211. SPANISH AMERICAN LITERATURE. Important literary productions of the chief Spanish American countries are read. The Modernista movement is studied in its greatest exponent Ruben Dario. Prereq., 102. (2-3) Whitehouse, Ondis.

212. NINETEENTH CENTURY SPANISH LITERATURE. Prereq., 102. (2) Whitehouse, Ondis.

213. CONTEMPORARY SPANISH LITERATURE. Prereq., 102. (2) Whitehouse, Ondis.

217. HISTORY OF SPAIN. Prereq., 102. (1) Whitehouse, Ondis.

271. ADVANCED SPANISH. Prereq., 20 hrs. (1-32) Whitehouse, Ondis.

a. Early period. The Epic and Chronicles.

b. Early prose and poetry. Don Juan Manuel and the Arcipreste de Hita.

c. The Romancero. The Romances of Chivalry and the realistic novel.

d. Sixteenth century. The mystics. Three types of novel: moorish, pastoral, and picaresque.

e. Seventeenth century. The works of Cervantes, except the *Quijote*, and the chief dramatists.

f. Development of the theatre in the seventeenth century.

g. Recent developments in Spanish literature: novel, drama, and essay.

h. Benito Perez Galdos. Novels.

291. RESEARCH IN SPANISH. Prereq., 102. (2-4) Whitehouse, Ondis.

341-342. ROMANCE PHILOLOGY (OLD SPANISH AND PORTUGUESE). See Romance Philology.

395. THESIS. Prereq., permission. (4-8) The staff.

ROMANCE PHILOLOGY (See Romance Languages)

SECRETARIAL STUDIES (See Commerce)

SOCIOLOGY

Professor Ash; Associate Professors Jeddelloh, Taylor;
Assistant Professor Shannon

The courses in sociology are designed to meet the requirements of three classes of students. The classifications are indicated followed by the courses recommended for the group. In all cases the students should seek the counsel of the advisers in the department.

1. Those desiring a general introductory acquaintance with the field of sociology: Soc. 101, 103, 105, 125, 208, 210, and 212.

2. Those preparing to teach sociology either in high school or college: Soc. 101, 103, 107, 110, 210, 212, 218, 221, 222, 236, and 238.

3. Those expecting to qualify for professional social work: Soc. 101, 103, 104, 107, 201, 204, 208, 211, 218, 222, 223, 224, 225, 234, 235, 236, 239-240, 253, 255, and 301.

1. **SOCIAL DEVELOPMENT.** The nature and types of social unity; the means, the forms, and the areas of social experience, and the development, diffusion and transmission of culture. (3) Ash.

Note—It is recommended that this course precede or follow Ec. 1, Economic Development, thus giving University College students a one year introductory course in social science.

3. **EDUCATIONAL SOCIOLOGY.** Education as a social process. The pupil as a person and a member of various groups. The sociological aspects of the curriculum, classroom organization, and teaching. The school in its relation to the community. (2) Jeddelloh.

5. **RURAL SOCIOLOGY.** The composition of rural population, the rural family and standards of living, and an analysis of rural institutions. The fundamental differences between rural and urban groups, and the major rural social processes. (2) Taylor.

6. **RURAL LIFE MOVEMENT.** A general review of the various movements and agencies which tend to improve rural life: Grange, Farm Bureau Federation, American Country Life Association, and 4H Clubs. Programs for the improvement of rural society. (2) Taylor.

101. **PRINCIPLES OF SOCIOLOGY.** The basic facts and principles of human society, of factors and forces which condition social life, and of major concepts and techniques employed in sociological investigation and interpretation. (3) Taylor.

103. **SOCIAL PROBLEMS.** A study of major social problems as forms of disorganization of personalities, of social institutions, and of communities as they are influenced by various factors, particularly social change. Prereq., 3 hrs. (3) Jeddelloh.

104. **COMMUNITY ORGANIZATION.** Community life from primitive times to the present. Selected rural and urban communities studied. The place, problems, and possibilities of the community in modern social life. Prereq., 3 hrs. (3) Shannon.

105. **MIGRATION AND RACE RELATIONS.** Racial groups in historic and contemporary society. The migrations of peoples, the problems of immigration in the United States, the effects of restricted immigration, the behavior and social status of minority groups in the United States. Prereq., 3 hrs. (3) Jeddelloh.

107. **EDUCATIONAL SOCIOLOGY.** Education as a social process. The pupil as a person and a member of various groups. The sociological aspects of the curriculum, classroom organization, and teaching. The school in its relation to the community. Prereq., 3 hrs. (2) Jeddelloh.

110. **THE PSYCHOLOGICAL FACTOR IN HUMAN SOCIETY.** The psychological conditioning of human behavior in social and cultural situations, the psychology of social institutions, the collective behavior of masses, crowds, organized groups, and the factors in specific social problems. Prereq., 3 hrs. (3) Taylor.

122. **DEVELOPMENT OF WESTERN CIVILIZATION.** The civilizations of the Hebrews, Egyptians, Greeks, and Romans with special emphasis on those elements in their culture which have been incorporated in modern western civilization. A critical study of the processes and experiences of the peoples of medieval Europe in building a composite culture. Prereq., 3 hrs. (3) Ash.

125. **CULTURAL ANTHROPOLOGY.** A study of primitive people and their institutions in prehistoric and modern times for the purpose of recognizing universal human traits and the backgrounds of modern civilization. Prereq., 3 hrs. (3) Taylor.

169s. **TEACHING OF SOCIAL SCIENCE.** (Same as Ed. 169s) A study of objectives and other basic aspects of the social science curriculum; the construction of courses of study; and examination of classroom, laboratory, and field techniques; and a discussion of the professional relations of the teacher to school and community. (2) Jeddelloh.

201. **INDUSTRIAL SOCIOLOGY.** The course interprets and evaluates the theories and principles which underlie the present organization of business. The major emphasis is placed upon the social consequences of the mechanical interdependence of people and of an economy of scarcity. Prereq., 6 hrs. (3) Ash.

204. **SOCIOLOGY OF RECREATION.** The development of recreation under varying social conditions with special emphasis on the fundamental patterns of recreational activity. The psychosociological effect of an industrial civilization. The commercialization of recreation and its social effects. Modern community programs. Prereq., 6 hrs. (3) Jeddelloh.

208. **THE FAMILY.** A historical study of marriage and of the different types and forms of family life at different times and among different peoples, followed by a consideration of forces and influences affecting the stability of the modern family. Prereq., 6 hrs. (3) Ash.

209. **SOCIAL CONTROL.** A critical comparison and evaluation of the methods by which society maintains its ascendancy over the individual, creates standards of value and conduct, and unites various types and classes of people into one social body. Prereq., 6 hrs. (3) Ash.

210. **SOCIAL THEORY.** The sociological ideas of August, Comte and Herbert Spencer. The leading contributions of sociologists both abroad and in the United States down to the present. Prereq., 6 hrs. (3) Taylor.

211. **CRIMINOLOGY AND PENOLOGY.** The course surveys general facts with respect to crime, the criminal, and his treatment by society. Particular attention is paid to measures and theories which point in the direction of a scientific criminology. Prereq., 6 hrs. (3) Jeddelloh.

212. **POPULATION PROBLEMS.** Population studied from the standpoint of numbers and quality in the United States and other sections of the world. Differential fertility, birth control, eugenics, and other problems of population are treated. Prereq., 6 hrs. (3) Taylor.

218. **URBAN SOCIOLOGY.** Cities as dynamic mechanisms in modern culture. A brief survey of historical types of cities and their structures. The contemporary city. The emerging theories, programs, and experiments of city and regional planning. Prereq., 6 hrs. (3) Jeddloh.

221. **CONTEMPORARY SOCIAL MOVEMENTS.** The better known Utopian and socialistic philosophies. The two significant social experiments of the present time; viz., communism and fascism. The more recent proposals for achieving a planned and controlled social order. Prereq., 6 hrs. (3) Taylor.

222. **JUVENILE DELINQUENCY.** Causative factors in juvenile delinquency, characteristics of delinquents, community control of delinquency, juvenile court procedure, probation, and correctional training in institutions. Field contact and the handling of realistic data. Prereq., 6 hrs. (3) Jeddloh.

223. **POVERTY AND ECONOMIC INSECURITY.** Poverty and economic insecurity with emphasis on measures of treatment and prevention. Social insurance and recent legislation for social security in the United States. Prereq., 6 hrs. (3) Shannon.

224. **CHILD WELFARE.** Conditions, problems, programs, and agencies of child welfare, and the more important techniques of study, protection, and reconstruction of maladjusted children. Child welfare problems in Ohio and the findings of the White House Conference receive special consideration. Prereq., 6 hrs. (3) Shannon.

225. **CHILD WELFARE CASE WORK.** A study of the principles and methods of social case work as applied to child welfare agencies in rural areas. Prereq., 12 hrs. including 224. (5) Shannon.

234. **PUBLIC ASSISTANCE.** Local, state, and Federal organization for relief and public assistance. Analysis and evaluation of direct and work relief programs. Study of case materials dealing with principles and practices of public assistance to dependent children, the blind, the aged, and the unemployed. Prereq., 9 hrs. including 223. (3) Shannon.

235. **SYSTEMS OF PUBLIC WELFARE.** Programs for the protection and care of socially, physically, and mentally handicapped as expressed in legislation and in work of public departments of cities, counties, and states. Attention is given to changing functions of governmental departments and to the development of preventive and constructive services. Prereq., 6 hrs. (3) Shannon.

236. **PROPAGANDA.** Methods and techniques of propaganda, its legitimate uses and its abuses, its relation to such social phenomena as stereotypes, sentiments, public opinion, social attitudes, and mass convictions. Prereq., 6 hrs. (3) Ash.

238. **SOCIAL DYNAMICS.** Contemporary theories of social change, of the

analysis and measurement of social trends, the casual interrelation between the scientific-technological culture traits and social institutions, and the possibility of social planning. Prereq., 6 hrs. (3) Jeddelloh.

239-240. SOCIAL SERVICE. Social case work. Problems of individuals and families in their social relationships. Soc. 240 emphasizes family social work and social case work with children. Five to seven hours a week in field work in social agencies of the county. Fee, \$5. Prereq., 12 hrs. (5) Shannon.

253. INSTITUTIONAL SOCIAL SERVICE. (Summer session only) Internship in correctional institutions and institutions for the care of children. The course includes training in staff duties at the institution under the immediate supervision of the institutional staff. Prereq., 12 hrs. (5) Jeddelloh.

255. INTERNESHIP TRAINING IN JUVENILE COURTS. The course includes regular full time staff duties in juvenile courts under controlled conditions supplemented by additional training by officers of the courts and members of the department. Prereq., 12 hrs. (6) Jeddelloh.

301. FIELD WORK IN CHILD WELFARE. Supervised field work arranged in connection with county child welfare units to provide specialized training in varied case work services for children. 1 lec. and a minimum of 15 lab. Prereq., 15 hrs. including 225. (3) Shannon.

381. TECHNIQUE AND METHODOLOGY OF SOCIAL INVESTIGATION. Analysis study of representative examples of recent sociological research and application of the experience gained to the investigation of social problems of limited compass. Prereq., 12 hrs. (2-3) The staff.

391. SEMINAR IN SOCIOLOGY. Prereq., 15 hrs. (2-3) The staff.

395. THESIS. Prereq., permission. (4-8) The staff.

SPANISH

(See Romance Languages)

SPEECH

(See Dramatic Art)

STATISTICS

(See Commerce, Education, and Mathematics)

ZOOLOGY

Professors Kreckler, Elliott, Frey; Associate Professors Rowles, Stehr;
Instructor Gier; Research Assistant Roach

The major requirement in zoology for the A. B. degree is a minimum of

24 semester hours in courses approved by the department advisers; for the B. S. degree, a minimum of 36 semester hours.

Curricula are outlined by the College of Arts and Sciences for students in premedical, pre dental, pre nursing, and medical technology courses. Students who wish to prepare for federal or state conservation service, biological surveys, fisheries, and economic entomology are advised to confer with the chairman of the department and to include the following courses: Zool. 3-4, 107, 118, 205, 216, 233, and 234. Those interested in entomology should include: Zool. 3-4, 107, 205, 220, and 225-226.

3-4. GENERAL ZOOLOGY. A survey of zoological and biological principles. Chief topics: organization and physiology of a typical animal; review of the animal kingdom including references to economic importance, habits, life histories; principles involved in the evolution of organisms and society; distribution and relation of animals to their environment; doctrine of evolution; principles of heredity. 2 lec. and 2 lab. Fee, \$3. (3) Kreckler, Stehr, Gier.

103. READINGS IN BIOLOGY. A course for students interested in advances in biological fact and thought, especially as applied to the field of human affairs. Fee, \$1. Prereq., 4 or high school biology. (1) Kreckler.

107. PRINCIPLES OF HEREDITY. An introduction to heredity. Fundamental principles and mechanism of heredity and a review of what is known regarding heredity in man. Consideration of practical applications to heredity in social welfare, public affairs, and race betterment. Prereq., 4, or 6 hrs. botany. (3) Kreckler.

110. ORGANIC EVOLUTION. A consideration of the evidence for evolution and the factors involved in the process, theories of the method of evolution, and the history of the evolutionary conception bearing upon human civilization. Prereq., 4, or 6 hrs. botany. (3)

112. COMPARATIVE VERTEBRATE ANATOMY. A comparative study of the skeleton and organ systems of selected vertebrates such as the shark, frog, turtle, and mammal. 2 lec. and 4 lab. Fee, \$4. Prereq., 4. (4) Elliott.

115. ELEMENTS OF ANATOMY. A study of the anatomy of a mammal illustrated by the dissection of a cat. Attention is given chiefly to the skeleton, muscles, and viscera. For physical welfare students and majors in zoology with the exception of premedical students. 2 lec. and 2 lab. Fee, \$3. Prereq., 4. (3) Elliott.

118. ORNITHOLOGY. A general study of birds emphasizing their identification, migration, life histories, and economic value. Field trips are taken to identify the birds of the vicinity. 2 lec., 2 lab., and field work. Fee, \$3. Prereq., 4. (3) Gier.

119. GENERAL ENTOMOLOGY. A study of the structure, habits, and life histories of insects, with practice in collecting, mounting, and identification. 2 lec. and 4 lab. Fee, \$4. Prereq., 4. (4) Stehr.

125. ELEMENTARY PHYSIOLOGY. A course in human physiology which considers the general physiological principles of irritability, muscle and

nerve physiology, blood, circulation, respiration, digestion, nutrition, excretion, central nervous system, special senses, reproduction, and the endocrine glands. 2 lec. and 4 lab. Fee, \$4. Prereq., 4; a knowledge of chemistry desirable. (4) Rowles.

128. HISTOLOGY. (Not offered in 1939-1940) A study of tissues illustrated by vertebrate material to acquaint the student with the finer structure of the skeletal, muscular, digestive, circulatory, respiratory, urinary, reproductive, and nervous systems. 2 lec. and 4 lab. Fee, \$4. Prereq., 112 or 115. (4) Elliott.

133. ANIMAL MICROTECHNIC. The principles and methods of preparing animal material for microscopic study. Practice in fixing, embedding, sectioning, staining, and mounting tissues. Principles of the microscope and its accessories. 1 lec. and 4 lab. Fee, \$3. Prereq., 4. (3) Elliott.

141. ELEMENTARY BACTERIOLOGY. Morphology and physiology of bacteria, staining reactions, preparation of media and the biochemical reactions resulting from bacterial activity. Bacteriology majors are referred to Zool. 211. 2 lec. and 2 lab. Fee, \$3. Prereq., 4, 6 hrs. botany, or 8 hrs. chemistry. (3) Frey.

145. CLINICAL TECHNIC. The theory and practice of making various tests used in laboratories of clinical pathology: blood counts, blood matching and typing, blood chemistry, urinalysis, gastric analysis, sputum examinations, functional tests, serological methods including Wasserman's, applied bacteriology, and the making of vaccines. Fee, \$1 for each credit hour. Prereq., 211 and permission. (2-8) Frey.

168z. TEACHING OF ZOOLOGY. (Same as Ed. 168z) The following topics are among those considered: aims and objectives of zoology courses; survey of available texts, manuals, and reference books; various methods of instruction; sources of laboratory equipment and supplies; special aids in instruction; examinations; controversial topics in biology. The student is given opportunity to examine and use the books, materials, and equipment discussed. Prereq., 4 and an additional laboratory course in zoology. (2) Stehr.

201. VERTEBRATE EMBRYOLOGY. The development of vertebrates illustrated by the chick and the pig. A preliminary consideration of fertilization and maturation followed by a study of the formation of foetal membranes and the development of the various organs. 2 lec. and 6 lab. Fee, \$4. Prereq., 112. (4) Elliott

202. MAMMALIAN ANATOMY. The anatomy of mammals with particular emphasis on the cat. 2 lec. and 4 lab. Fee, \$4. Prereq., 201. (4) Elliott.

204. VERTEBRATE NEUROLOGY. A comparative study of the brain and spinal cord of mammals with emphasis upon the reaction systems. A preliminary study of the embryological development and general histological structure of the nervous system. Dissections of the brain of shark, sheep, and man are followed by a microscopic study of various levels of brain and spinal cord. 2 lec. and 4 lab. Fee, \$4. Prereq., 112, or 4 and 15 hrs. psychology. (4) Elliott.

205. **PRINCIPLES OF PHYSIOLOGY.** Fundamental principles of the activity of living things, the physical-chemical composition of living material, the functions of cell components, properties of solutions, membrane phenomena, amoeboid and ciliary movement, muscle and nerve, enzymes, secretions, and biological media. Not open for graduate credit to students majoring in physiology. 2 lec. and 6 lab. Fee, \$4. Prereq., 4 and Chem. 2 or 4. (4) Rowles.

206. **COMPARATIVE INVERTEBRATE PHYSIOLOGY.** Application of fundamental principles of physiology to invertebrate groups. Circulation, respiration, digestion, nutrition, excretion, reproduction, nervous system, and irritability including behavior; the effect of changing environmental factors on these mechanisms. 2 lec. and 4 lab. Fee, \$4. Prereq., 205. (4) Rowles.

207. **MAMMALIAN PHYSIOLOGY.** A study of the physiology of mammals: blood and lymph, heart and circulation, respiration, digestion, metabolism, endocrine glands, excretion, special senses, central nervous system, and reproduction. 2 lec. and 4 lab. Fee, \$4. Prereq., 112 and 205. (4) Rowles.

209. **BIOLOGICAL CHEMISTRY.** A brief introduction to physical chemistry of true and colloidal solutions; fundamental principles of enzyme action; chemical nature of and tests for: carbohydrates, proteins, fats, digestion, and metabolism; chemical analysis of: blood, lymph, bile, faeces, milk, epithelial and connective tissue, and urine. 2 lec. and 4 lab. Fee, \$4. Prereq., 4 hrs. physiology and Chem. 113 and 117 or 115 and 119. (4) Rowles.

211. **GENERAL BACTERIOLOGY.** A study of the structure, classification, and relationships of bacteria, preparation of cultures, staining technic, and biochemical reactions. Not open for graduate credit to students majoring in bacteriology. 2 lec. and 4 lab. Fee, \$4. Prereq., 4 and Chem. 115. (4) Frey.

212. **PATHOGENIC BACTERIOLOGY.** Bacteria in relation to human disease. The culture and identification of disease producing bacteria, protozoa, higher fungi, and filterable viruses. Methods of transmission and means of protection, and disease symptoms and immunity. 2 lec. and 4 lab. Fee, \$4. Prereq., 211. (4) Frey.

213. **BACTERIOLOGICAL REVIEW.** An advanced theoretical course in bacteriology reviewing the entire field. Special reference is made to dissociation, growth curves of bacteria, anaerobiosis, oxidation and reduction, metabolism of bacteria. Prereq., 8 hrs. bacteriology and permission. (2) Frey.

216. **ANIMAL PARASITES.** A study of parasites in relation to human disease. Parasites infesting man, their life histories, the diseases they produce, means of prevention and cure. 2 lec. and 4 lab. Fee, \$4. Prereq., 10 hrs. and permission. (4) Kreckler.

218. **ECONOMIC ENTOMOLOGY.** (Not offered in 1939-1940) Insects of economic importance in the United States with special reference to species common in southeastern Ohio. Life histories, types of injury, habits, and control measures. 2 lec. and 4 lab. Fee, \$4. Prereq., 119. (4) Stehr.

220. **ADVANCED ENTOMOLOGY.** (Not offered in 1939-1940) Intensive

study of insect morphology and of the principles and methods of insect classification and identification, with special emphasis on the more extensive orders. 2 lec. and 4 lab. Fee, \$4. Prereq., 119. (4) Stehr.

225-226. **ADVANCED INVERTEBRATE ZOOLOGY.** A study of the structure, relationships, and life histories of representative members of the various invertebrate phyla, together with related general principles. 2 lec. and 4 lab. Fee, \$4. Prereq., 10 hrs. and permission. (4) Stehr.

228. **ANIMAL ECOLOGY.** A study of animals in relation to their surroundings. Discussion of the general principles governing animal distribution and animal association. 2 lec. and 4 lab. or field work. Fee, \$4. Prereq., 10 hrs. and permission. (4) Stehr.

233. **BIOLOGY OF VERTEBRATES.** A study of the vertebrates emphasizing their identification, life histories, habits, distribution, and economic relationships. 2 lec. and 4 lab. or field work. Fee, \$4. Prereq., 10 hrs. and permission. (4) Gier.

234. **AQUATIC MANAGEMENT.** A practical course dealing with the manipulation of the natural factors affecting a maximum sustained yield of our aquatic resources. Includes applications of limnology, and ichthyology with emphasis on ecological relationships and habitat preferences of aquatic organisms. 1 lec. and 4 lab. or field work. Fee, \$3. Prereq., 228 or 233. (3) Roach.

243. **BIOLOGICAL STUDIES.** Semi-independent studies under the guidance of an instructor. Fee, \$1 for each credit hour. Prereq., 10 hrs. and permission. (2-10 in any of the following):

- a. Bacteriology—studies in water, dairy, and pathogenic bacteriology; serology and advanced technique. Frey.
- b. Ecology—field and laboratory studies of the relation between animals and their surroundings. Kreckler, Stehr, Gier, Roach.
- c. Entomology—classification, structure, life histories, and economic aspects of insects. Stehr.
- d. Genetics—breeding experiments, pedigree analysis, and library work in the field of heredity.
- e. Invertebrate Zoology—classification, structure, embryology, and life history of invertebrates. Kreckler, Stehr.
- f. Parasitology—animal parasites. Kreckler.
- g. Physiological Zoology—physiological and related experimental studies. Rowles.
- h. Readings in Biology—readings dealing with biological history, theory, and advances. Kreckler.
- i. Technicians' Methods—technic and theory of blood, urine, gastric analysis, fecal examination, and serological methods. Frey.
- j. Vertebrate Zoology—classification, embryology, gross and microscopic anatomy, economic control of vertebrates. Elliott, Gier.

383. MINOR RESEARCH IN ZOOLOGY. Problems of a research and semi-research nature in anatomy, bacteriology, ecology, entomology, invertebrate zoology, ornithology, parasitology, physiological zoology, and vertebrate zoology. Fee, \$1 for each credit hour. Prereq., 15 hrs. and permission. (2-8 in any of the subjects) The staff.

385. RESEARCH IN BIOLOGY. Research work in anatomy, bacteriology, ecology, entomology, invertebrate zoology, ornithology, parasitology, physiological zoology, and vertebrate zoology. This course fulfills the thesis requirement for the master's degree. Fee, \$1 for each credit hour. Prereq., 20 hrs. and permission. (2-8) The staff.

391. SEMINAR IN ZOOLOGY. A study of special topics and reports on current literature. Prereq., 16 hrs. and permission. (1-4) Krecker.

SUMMARY OF ENROLLMENT—JUNE 13, 1938 TO MARCH 1, 1939

RESIDENT STUDENTS	Summer Sessions 1938 (Duplicates excluded)			First Semester 1938-1939			Second Semester 1938-1939			Total All Sessions (Duplicates excluded)		
	M	W	T	M	W	T	M	W	T	M	W	T
	Campus											
Graduates.....	125	99	224	50	51	101	50	44	94	159	147	306
Seniors.....	176	388	564	300	176	476	311	172	483	455	521	976
Juniors.....	127	273	400	325	224	549	332	230	562	407	477	884
Sophomores.....	28	43	71	470	322	792	459	313	772	493	348	841
Freshmen.....	16	24	40	618	457	1075	551	415	966	621	455	1076
Specials												
Full-time students.....	74	124	198	12	8	20	13	8	21	112	202	314
Part-time students.....	14	26	40	21	70	91	19	59	78	7	18	25
Auditors.....	4	0	4	3	7	10	4	4	8	10	11	21
Totals.....	564	977	1541	1799	1315	3114	1739	1245	2984	2264	2179	4443
Portsmouth Division.....				71	104	175	62	101	163	90	124	214
Grand Totals.....				1870	1419	3289	1801	1346	3147	2354	2303	4657

NONRESIDENT STUDENTS

Extension Class Enrollment for First Semester.....	295
Correspondence Study Enrollment from March 1, 1938 to March 1, 1939.....	887

ENROLLMENT

1938-1939

CAMPUS ENROLLMENT FROM OHIO COUNTIES

Adams -----	8	Licking -----	66
Allen -----	22	Logan -----	17
Ashland -----	8	Lorain -----	42
Ashtabula -----	36	Lucas -----	10
Athens -----	645	Madison -----	14
Auglaize -----	4	Mahoning -----	144
Belmont -----	87	Marion -----	27
Brown -----	2	Medina -----	12
Butler -----	24	Meigs -----	129
Carroll -----	5	Mercer -----	3
Champaign -----	6	Miami -----	13
Clark -----	9	Monroe -----	43
Clermont -----	3	Montgomery -----	39
Clinton -----	10	Morgan -----	50
Columbiana -----	28	Morrow -----	4
Coshocton -----	42	Muskingum -----	62
Crawford -----	14	Noble -----	35
Cuyahoga -----	528	Ottawa -----	2
Darke -----	7	Paulding -----	3
Defiance -----	4	Perry -----	89
Delaware -----	11	Pickaway -----	12
Erie -----	10	Pike -----	16
Fairfield -----	62	Portage -----	6
Fayette -----	23	Preble -----	6
Franklin -----	67	Putnam -----	2
Fulton -----	2	Richland -----	37
Gallia -----	42	Ross -----	69
Geauga -----	1	Sandusky -----	8
Greene -----	8	Scioto -----	84
Guernsey -----	39	Seneca -----	4
Hamilton -----	42	Shelby -----	1
Hancock -----	4	Stark -----	91
Hardin -----	4	Summit -----	53
Harrison -----	36	Trumbull -----	44
Henry -----	2	Tuscarawas -----	79
Highland -----	6	Union -----	10
Hocking -----	97	Van Wert -----	9
Holmes -----	2	Vinton -----	51
Huron -----	20	Warren -----	34
Jackson -----	81	Washington -----	92
Jefferson -----	128	Wayne -----	21
Knox -----	35	Williams -----	3
Lake -----	44	Wood -----	2
Lawrence -----	64	Wyandot -----	5
		Total -----	3865

CAMPUS ENROLLMENT FROM OTHER STATES

Arkansas -----	1	Nebraska -----	1
California -----	3	New Hampshire -----	3
Connecticut -----	29	New Jersey -----	63
Florida -----	1	New York -----	131
Illinois -----	7	Pennsylvania -----	137
Indiana -----	4	Rhode Island -----	1
Iowa -----	1	South Carolina -----	1
Kansas -----	1	Tennessee -----	2
Kentucky -----	1	Vermont -----	4
Maryland -----	6	Virginia -----	4
Massachusetts -----	7	Washington, D. C. -----	4
Michigan -----	10	West Virginia -----	150
Missouri -----	1	Wisconsin -----	2
		Total -----	575

CAMPUS ENROLLMENT FROM U. S. TERRITORIES and
FOREIGN COUNTRIES

Norway -----	1
Puerto Rico -----	1
Syria -----	1
Total -----	3

PORTSMOUTH, OHIO, DIVISION ENROLLMENT

Total -----	214
Grand Total Resident Students -----	4657

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*"That there shall be a University instituted and established in the town of Athens, * * * for the instruction of youth in all the various branches of the liberal arts and sciences, for the promotion of good education, virtues, religion, and morality, and for conferring all the degrees and literary honors granted in similar institutions."*

Section 1, Territorial Act, January 9, 1802.

"Whereas, institutions for the liberal education of youth are essential to the progress of arts and sciences, important to morality, virtue, and religion, friendly to peace, order, and prosperity of society, and honorable to the government that encourages and patronizes them," etc.

Preamble, Act of Ohio Legislature establishing the Ohio University, at Athens, February 18, 1804.