

**OHIO
UNIVERSITY**

**SUMMER
SESSION
BULLETIN**

1940

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THE SUMMER SESSION BULLETIN OF OHIO UNIVERSITY 1940

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THE SUMMER SESSION CALENDAR

Registration Edwin Watts Chubb Library	Monday, June 17
Classes Begin	Tuesday, June 18
Applications for Graduation Due in Office of Registrar	Monday, June 17 to Saturday, June 22
Convocation Lecture—Dr. Will Durant	Monday, June 24
The Educational Exhibit	Monday, June 24 to Saturday, July 13
Convocations Lectures—Dr. Edward Howard Griggs	Monday, July 1 Tuesday, July 2 Wednesday, July 3
State Department of Education Officials Annual Conference	Tuesday, July 2
Independence Day, a Holiday	Thursday, July 4
Registration Four Weeks Courses, Students not Previously Registered, Office of the Registrar, Monday, a. m., July 15	
Educational Lectures, Ohio Education Association Representative	Tuesday July 16, Wednesday, July 17
Baccalaureate Sunday	Sunday, August 4
Masters' Theses Due in Library	Monday, August 5
Final Examinations, All Courses	Wednesday p.m., August 7, Thursday, August 8, Friday a.m., August 9
August Commencement	Friday, August 9
First Session Closes	Saturday, August 10
Registration, Post Session, Office of the Registrar	Monday a.m., August 12
Classes Begin	Monday p.m., August 12
Final Examinations, All Courses	Friday p.m., August 30
Post Session Closes	Saturday, August 31

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Lee Stewart Roach, A.M.

Part-time Instructor in Journalism
Part-time Instructor in Journalism
Instructor in Secretarial Studies
Instructor in Physical Welfare
Instructor in Physics
Instructor in Physical Welfare
Instructor in Home Economics
Instructor in School Music
Instructor in English
Part-time Instructor in Journalism
Instructor in History
Instructor in Industrial Arts
Instructor in English
Instructor in School Music
Instructor in Secretarial Studies
Part-time Instructor in Mathematics
Instructor in Geography and Geology
Instructor in Education
Instructor in Industrial Arts
Instructor in School Design
Instructor in Home Economics
Instructor in Economics
Instructor in Physical Welfare
Instructor in Sociology
Instructor in Physical Welfare
Part-time Assistant in Zoological Research

visiting lecturers

Lucille Allard, A.M.
Victor L. Bowers, A.M.
Martin P. Chworowsky, Ph.D.
✓ Augustin Lawrence Cosgrove, A.M.
Joseph C. Dewey, Ph.D.
Bianca Esch, A.M.
Martin K. Farmer, Ph.D.

Visiting Lecturer in Education
Supervisor, Public Schools, Garden City, New York
Visiting Lecturer in Industrial Arts
Visiting Lecturer in Education
University of Pittsburgh
Visiting Lecturer in Secretarial Studies
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Westminster College
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Elementary School Principal, Louisville, Kentucky
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Mary McClenaghan, A.M.	Supervising Critic, First Grade
Helen Evans, A.M.	Supervising Critic, Second Grade
Helen Louise Johnson, A.M.	Visiting Supervising Critic, Third Grade
Viola Nelson, A.M.	Supervising Critic, Fourth Grade
Ida K. Brink, A.M.	Visiting Supervising Critic, Fifth Grade
Esther Dunham, A.M.	Supervising Critic, Sixth Grade

the plains elementary school

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Vera Sproul, A.M.	Supervising Critic., Second Grade
Mary Flanagan, A.M.	Supervising Critic, Third Grade
Alta Cooper, A.M.	Supervising Critic, Fourth Grade
Mabel Hyatt, A.M.	Visiting Supervising Critic, Fifth Grade
Irene Elliott, A.M.	Supervising Critic, Sixth Grade

athens high school

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FOREWORD

A common question today both among educators and lay people is: Where is education going? Sometimes it is asked from the standpoint of the purposes of education by someone with a penchant for decrying the present day trends, as he thinks, towards "softness" in our schools. At other times, it is the query raised by the businessman, legislator or taxpayer who sees the cost of educational institutions, as he thinks, getting out of bounds. This question of direction in education is one which is applied with equal legitimacy in other walks of life as well. A versatile Isaiah today would be popular among government leaders, business executives, generals, and churchmen, as well as among educators. But lacking the prophet, we carry on following plotted curves and studying statistics to minimize the pure guesses in the dark.

Where is summer study in our universities going? As regards their administration, experience has shown that often summer sessions have been set up in the past primarily for grade school teachers who did not complete the necessary preparation for their profession. Low State certification requirements, which were satisfied through study during one or two years beyond the secondary school, made possible a relatively obvious basis for answering the question. As these requirements were reluctantly increased and as teachers realized their inadequacies professionally, the demand for broader course offerings in summer sessions has increased. As an offsetting element was the factor that newcomers into the profession were somewhat better prepared. Recently in Ohio, the State Department of Education has perfected plans which require four years of preparation of all elementary school teachers and a fifth year of administrative and supervisory school officers. The not distant year 1945 specified as a dead line is already making its anticipatory effect noticeable.

The University has for years maintained its resolve to offer as broad a cross section of its courses and programs as possible in the summer sessions. It will endeavor to do so in the future thereby serving as many students through such opportunities as care to come. In all probability, this student group will continue to be what it has always been in the universities of the United States—a student body different in its personnel than that made up so largely of the undergraduates in the other sessions of a year. Summer session course offerings seemingly must soon be arranged for students desirous of more advanced study. As least this is true for those who constitute the larger group of students, the teachers.

Aside from other effects referred to and implied above, this probable trend should be greeted with a real welcome. If teachers are feeling more and more the need for thought and study beyond the barest minima, what

could be better for the youth of today? Where a decade ago a teacher with one year of university work satisfied a community and now four times the length of that preparation seems reasonable, the boys and girls must be the favored ones, other things being equal.

Summer sessions seem to be moving more toward offering advanced study opportunities than ever before. Conventions, clinics, "schools," association meetings, conferences of several days or weeks in length in all other professional walks everywhere in life are further preparations designed to insure a higher type of contribution to the public. Summer study enables teachers to keep abreast of recent advances through research and theory in the varied phases of education. Not all will feel the urge to improve, of course. But for those who wish to serve better, there will be programs of study in the summer sessions which will be of definite assistance.

The Summer Sessions for 1940 at Ohio University is outlined in the pages which follow. Practically the entire University is represented. Advanced course offerings and other related services are here in evidence more than in any of the years of the past. That prospective students may find work to their interests and distinct advantage is our hope and our conviction.

E. A. Hansen, Director

ADMISSION

All correspondence regarding admission of a student to the summer sessions of the University should be addressed to the Registrar and Director of Admissions, 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 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.

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 graduate of an out-of-state high school is admitted if the high school from which the student is graduated is on the list of high schools approved by the Board of Education of that state and if he qualifies for admission to the state university of his own state. A resident of a state which does not support a state university of the same general scope and 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 student who transfers to Ohio University for the summer sessions only and who does not plan to receive a degree is required to present only a statement of good standing from the school he last attended or a statement of graduation.

A transfer student is admitted to a degree college if he has completed the requirements of the University College.

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

college ability test

An undergraduate entering Ohio University for the first time is required to take the college ability test. A notice giving date, place, and hour of the test is sent to the student with 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. A graduate student who plans to attend the University only for summer sessions or who does not expect to receive a master's degree is required to present only a statement of graduation. Only graduates of accredited institutions are accepted for admission.

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.

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 on the regularly scheduled days.

Additional information concerning admission may be found in the general catalog.

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.

A student is advised and registers in the Edwin Watts Chubb Library at the time indicated on his permit 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.

A student normally registers for 8 semester hours. A student on probation is limited to 7 semester hours. Permission to register for additional hours is obtained from the dean of the college in which the student is enrolled.

payment of registration fees

Registration fees for the summer session are payable on the first two days of each session. Students who do not pay registration fees during the designated time are not officially enrolled and are excluded from classes beginning with the third day of the session. Students who register after the scheduled registration days are subject to the late registration fee.

late registration

A fee of \$1 is charged for late registration, with the addition of \$1 for each day late. The maximum late registration fee is \$5. The penalty goes into

effect immediately after the close of the registration period as given in the calendar.

change orders

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

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

During the first three weeks of the summer session or the first week of the post summer session, the course is marked W. After this time the course is marked WP or WF according to the instructor's report.

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

change of address

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

change of college

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

withdrawal

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

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

GENERAL REGULATIONS

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 of eighteen weeks, and two recitations or four or more laboratory periods during the summer session of eight weeks.

grading system

A, very high; B, high; C, average; D, passing; F, failure; I, incomplete; W, withdrawn; WP, withdrawn passing; WF, withdrawn failing. A detailed description of the non-passing grades is given in the general catalog.

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; I, no points until the final grade is determined; F, and WF, no points. WP does not affect a student's scholastic average.

record of attendance

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

excused absences

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

student must report to the health clinic not later than one day after returning to classes if he has not been attended by a physician.

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

unexcused absences

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

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

Penalties for unexcused absences are under the jurisdiction of each instructor except for unexcused absences before and after a vacation. A penalty of 1 semester hour is added to the number of hours required for graduation for each day on which an unexcused absence occurs in any class during the two days preceding or following an approved University vacation. The maximum penalty for any one vacation is 4 semester hours. Whenever the penalty is applied, the dean of men or the dean of women notifies the dean of the college in which the student is enrolled, the registrar, and the student.

final examinations

Final examinations begin on Wednesday afternoon of the last week of the summer session. All students are required to take the final examinations according to the posted schedule except candidates for graduation who are examined during the week immediately preceding the scheduled examination period.

reporting of grades

Grades for all students are reported to the registrar's office at the end of each summer session. No grades are recorded for auditors. A grade report is mailed immediately after the close of the summer session to each student who leaves a stamped self-addressed envelope at the registrar's office in accordance with instructions issued during the session. If the student desires an official certification of his summer's record, he should place a note requesting the statement in the envelope. A second copy of either the grade report or the official certification costs twenty-five cents.

probation

The scholastic probation regulations are given in the general catalog.

transcripts

A photostatic copy of a student's record is issued by the office of the registrar as an official transcript. Official transcripts are made only at the request of the student. Each student is entitled to one transcript free of charge before graduation and one after graduation. One dollar is charged for each transcript made for the student after the first transcript. The fee must accompany the request.

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

GENERAL GRADUATION REQUIREMENTS

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

application

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

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

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 specific requirements are stated in the curriculum 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 scholastic points than semester hours, the number of points accepted towards graduation will be equal to the number of semester hours presented. The student's excess points, that is all points earned, are included in his scholastic average.

physical welfare

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 three exceptions to this regulation:

- (1) A student who is physically unable to fulfill the requirement must file with the registrar an excuse or a substitution obtained from the director of the Physical Welfare Division.
- (2) 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.
- (3) A student who transfers to Ohio University in his senior year with no physical education or physical welfare credit is required to complete only 2 semester hours at Ohio University unless the institution from which he transferred required 4 semester hours for graduation.

residence

The minimum residence requirement for a degree or a diploma is two semesters or the equivalent in summer sessions which should total not fewer than thirty weeks. Saturday and evening class credit may be used to satisfy the residence requirement in combination with one semester or several summer sessions. The number of weeks of residence for part-time students enrolled in Saturday 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.

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

A student who does not complete the courses for which he is enrolled at the time he becomes a candidate for graduation may complete the work for which he is registered after he leaves the campus provided satisfactory arrangements can be made with his instructors. This student is not graduating in absentia. He will be required to attend commencement or has the privilege of petitioning for absence from commencement exercises. The petition for absence from commencement requires the payment of a fee of \$5.

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 in the general catalog.

(2) A student who has completed all the requirements for graduation 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 a registration of 4 semester hours. This requirement may be fulfilled by extension credit earned at Ohio University either in group extension or in correspondence study.

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

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

time limit

A student first registers for a bachelor's degree when he enrolls in a degree college. This occurs after a student has completed the requirements of the University College, which usually is at the beginning of the sophomore year. When he has enrolled in a college and has registered for a bachelor's degree, he may secure that degree by fulfilling the requirements as outlined in the catalog of the year in which he first registered in the University. A student who does not complete the degree requirements within the usual three years spent in the degree college may be allowed to fulfill the same

requirements at a later date provided he completes them within seven years after his first enrollment in the University. A transfer student is governed by the same regulations, except that the number of years in which to complete the degree requirements is reduced by the number of years of transferred work.

second bachelor's degree

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

graduation 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 commencement held at the close of the first summer session. Attendance at commencement is required.

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

At the close of the post summer session, degrees and diplomas are mailed to the students at the addresses given on the summer session registration cards, unless a student reports another address to the registrar's office.

FEEES AND DEPOSITS

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

registration

	*Resident	**Nonresident
The Summer Session Full-time Student Registration fee—general	\$ 20.00	\$ 32.50
Registration fee—athletic, lecture, and entertainment	2.50	2.50
Library fee	1.00	1.00
Health fee	1.00	1.00
Total	\$ 24.50	\$ 37.00
The Summer Session Part-time (less than 5 semester hours) Student Registration fee—general for the first semester hour		
	3.00	5.00
Registration fee—for each additional semester hour	3.00	4.50
Registration fee—athletic, lecture, and entertainment, library, and health fees, same as above.		
Health fee exempt for music students and graduate students enrolled for conference courses.		
Registration fees for auditors—for each semester hour		
	2.00	2.00
Library fee	1.00	1.00
The Post Summer Session		
Registration fee—general for first semester hour	5.00	7.00
Registration fee—for each additional semester hour	5.00	6.50
Library fee	1.00	1.00
The Post Summer Session Auditor		
Registration fee	1.00	1.00
Library fee	1.00	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 general registration fee of \$45. These states are: Massachusetts and New York.

music fees

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

miscellaneous fees

Bureau of Appointments, registration fee	\$ 1.00
Change of College	1.00
Change Order	1.00
College Ability Test, when not taken at the designated time	1.00
Duplicate Fee Card	.25
Examination for advanced standing, each examination	1.00
Grade Report Book (after the first book)	.25
Grade Report (after the first copy)	.25
Application for degree	5.00
Application for three-year diploma in education	2.50
Re-application for a degree or diploma	1.00
Penalty for late application for degree or diploma	1.00
Excuse from commencement	5.00
Infirmity, hospital service for each day	2.00
Late registration or late payment of fees	1.00
Each additional day late in registration or payment of fees (after date announced)	1.00
Auditors, graduate students taking work on a conference basis, and music specials, for each week late	1.00
Maximum penalty for late registration or late payment of fees	5.00
Speech Test	1.00
Thesis Abstract Printing	2.50
Thesis Binding (each copy)	1.90
Transcript of Record (after the first transcript)	1.00

laboratory fees

Laboratory fees are assessed at the rate of \$1 for one semester hour of credit. Student teaching fees are assessed at the rate of \$2 for each 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.

Breakage deposit fees are also indicated in the description of the courses. When the fee is paid, a deposit card is issued to the student. This card is deposited by the student with the department and entitles the student to a desk properly supplied with apparatus. Any needed supplies are checked from the card and any unused portion of the fee is returned at the end of the summer session 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 First Summer Session:

1. Within the first week, 75 per cent refunded.
2. After first week, from second to third weeks inclusive, 50 per cent refunded.

3. After third week, no refund.

The Post Summer Session:

1. Within the first week, 50 per cent 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 schedules. 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.

LIVING ACCOMMODATIONS

Residence Halls for Women. Lindley Hall will be open for the summer of 1940 to women students. Furnishings of the rooms include everything necessary except such personal articles as towels, soap, dresser coverings, cushions, pictures, etc. Double rooms rent at the rate of \$20 and \$24 for the term per person; single rooms, \$26. Board is \$36 for the term. Rent is due at the beginning of the summer for the entire session of eight weeks. A request for an assignment should be accompanied by a retaining fee of \$5. No refund of the retaining fee is made unless request is made prior to June 10, 1940. Students are required to give telephone service of approximately one hour per week. Exemption for the session may be had on the payment of \$2 or twenty-five cents per hour.

Remittance should be made by money order or check made out to Ohio University. Early applications are recommended and should be made through the office of the dean of women. In case of late registration, a room may be held providing the rent is paid for the entire eight weeks. No room will be held unless it is secured by the \$5 retaining fee. Information about rooms in private homes may be obtained upon personal application to the Supervisor of Off-campus Housing, at the office of the dean of women. The office does not send out addresses by mail.

Rooms and Board for Men. Men students are required to live in approved rooming houses. The Palmer Hall will be available as a residence for men students during the 1940 summer session. Double rooms may be secured for \$1.50 per week; single rooms, \$3 per week. Applications for rooms at Palmer Hall should be filed at the office of the dean of men.

A request for an assignment must be accompanied by a retaining fee of

\$6. No refund of this retaining fee is made unless request for such is presented prior to June 10, 1940.

Rooms in private homes which have been inspected and approved are listed in the office of the dean of men. Rates for rooms in private homes vary as follows: \$1.50 per week per person for double rooms and \$2 to \$4 per week for single rooms. Board may be secured at restaurants and a few private boarding houses.

FACILITIES FOR INSTRUCTION AND SPECIAL ADVANTAGES

The entire University plant is in operation to offer educational opportunities to summer session students. Certain units are described below in order to make clear uses which may be made of them during the summer.

edwin watts chubb library

The library is located at the main entrance of the campus. Its architecture is early American to correspond with that of the oldest buildings on the campus.

In this comparatively new building, commodious reading rooms, seminars and work rooms are provided for the convenience of patrons and staff. Seminars and stack carrels are set apart for graduate students. The stacks, consisting of six floors, and periodical and reference rooms will accommodate 250,000 volumes. The library now has 121,800 volumes, and subscribes for 628 periodicals annually.

It is a designated depository of United States documents, and receives as gifts many other scientific publications, such as those from the Carnegie Institution of Washington.

The University library serves the city of Athens. A juvenile room is a unique feature which cares for the public schools, and lends the opportunity to university students to use a well selected collection of juvenile literature and to familiarize themselves with school library administration.

During the summer session, the library is open Monday to Friday from 7:50 a.m. to 9:30 p.m.; Saturday from 7:50 a.m. to 5:00 p.m.

The library is now operating on the closed stack plan. Faculty, graduate students and seniors are admitted to the stacks by cards. Other students must call for their books at the circulation desk.

university museum

The Museum is located on the second floor of the Agriculture and Household Arts Building and is open to the public during afternoons.

The collections and exhibits include rocks, minerals, fossils, sands, clays, and clay-products; Indian implements and utensils; stone and metal products of historic interest, war materials; and lamps and other lighting devices of early days. There is a large herbarium of local plants. Animal exhibits such as mounted birds, snakes, sponges, starfish and various other specimens are on display. The mollusca collection ranks among the very best shown in American museums.

Probably the fluorescent room affords the most interesting of the displays and one least known to museum visitors in general anywhere. Here under ultra violet light common dull objects fluoresce in an appealing glow of amazing colors.

Teachers are invited to make use of the museum. An attendant will be on duty during each afternoon of the first session.

bureau of appointments

The Bureau of Appointments is maintained by the University to assist those students about to graduate in finding positions in the fields of teaching and school administration and in other fields such as engineering, business, and the professions. The service is extended to those interested in initial placement and to those alumni and former students seeking advancement to more desirable positions. Registration with the Bureau makes possible the complete collection of pertinent information which may be offered conveniently and promptly to officials interested in considering prospective employees.

All students interested should register with the Bureau early in their final year in residence. Those persons whose credentials are to be continued on active file must feel responsible for keeping their records up-to-date so that the latest complete information may be available for immediate use. Alumni and former students should correspond directly with the secretary in the Bureau.

special short courses

The 1940 Summer Session will offer several short courses which have proved valuable to athletic coaches. They are being scheduled in response to educational needs which Ohio University is particularly staffed to answer with its own faculty.

Athletic Coaching. Coaching courses in football, basketball, baseball and track will be offered during the afternoon of the first four weeks of the summer session. The regular coaches of the University will be available for instruction. Persons interested should turn to the sections on Physical Welfare and Education for complete descriptions and registration information.

Announcement for Deans of Women and Advisers of Girls. The University is pleased to announce this early that plans are laid for a short course for Deans of Women and Advisers of Girls for the Summer Session of 1941. This course is being 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 will consist of seminars, lectures, round tables, forums, and social hours. Four hours daily will be spent in classroom work. Minor research problems will be carried on in closely related fields of interest, and in so far as time permits, a survey will be made of literature and studies in the field of guidance. The course will be directed by Dean Irma E. Voigt. Lecturers from the fields of philosophy, education, psychology, and sociology will give addresses and lead discussions. Much pleasure and value will be derived from the housing arrangement by which the group will live together as a unit of the course, after the fashion of the now popular Workshop Courses in Education.

state department conference

Annually in July, the officials of the State Department of Education on invitation by the University hold conferences on local school problems for the benefit of summer session students and any other school officials and teachers who may wish guidance. The purpose is to make the officials representing the several divisions of the Department available for consultation in one important center in the counties which constitute the southeastern Ohio area. Combined general discussions on educational finance, transportation, instruction, and certification are led by the Director of Education and the chief officers of the divisions. In addition, individuals are offered consultation opportunities both morning and afternoon. A luncheon session makes possible the meeting with the officers for mutual better acquaintance and an understanding of the State's broad educational program.

The conference will be held in the Seminar Rooms in the basement of the Edwin Watts Chubb Library, Tuesday, July 2, from nine o'clock in the morning until three o'clock in the afternoon.

educational exhibit

The annual Educational Exhibit will be held in the auditorium of Rufus Putnam Hall Monday, June 24 to Saturday, July 13. Efforts are made by the book companies and school supply houses to exhibit the best educational materials and equipment for schools on all grade levels in this annual display. The Exhibit contributes effectively to satisfy the needs of teachers and school administrators who wish to learn of the best reading and refer-

ence materials, and general school supplies. The companies aim to show from their latest and most modern stocks.

An attendant will be on duty daily to assist visitors in examining the various items displayed, to dispense free advertising and announcement folders, and to open correspondence with the companies for anyone interested. Special representatives of the concerns will attend the Exhibit June 27, 28 and 29, to speak for their respective displays to visitors, especially to administrators and teachers contemplating book adoptions for individual grades and entire schools.

astronomical observatory

Ohio University's Observatory building was erected two years ago, and is located on North Hill near the city limits, about one mile from the Campus. The telescope, a reflector type, mounted equatorially, and having a 20-inch aperture, was given to the University by Professor A. H. Carpenter of Armour Institute of Technology, an alumnus of Ohio University.

The telescope is in general to be reserved for scientific work and observation in connection with Math. 14, Descriptive Astronomy, being offered this summer. However, on certain evenings to be announced during the summer, the Observatory will be open to visitors.

workshop in curriculum building

At last teachers who want to go to Summer School have an opportunity to work upon problems related to their school situations. A staff of specialists will work in close co-operation with individuals and groups in their attack upon significant problems: in curriculum building; or in implementing the new curriculum areas suggested by the State Department of Education; or in studying the administrative and supervisory problems inherent in making changes in curricula in a particular school. It is anticipated that principals of schools and their entire staffs will take advantage of the workshop facilities.

Blocks of time with a sequence of hours conducive to prolonged and intensive experimentation, study, and discussion have been scheduled for the convenience of those who wish to devote their time to inclusive purposes. Seminars, group discussions, excursions, reports, creative work, and some opportunities for dining together will be arranged as an integral part of the enterprise.

Those who are interested in becoming members of the Ohio University Workshop in Curriculum Building should send in their applications immediately. With permission "Workshop" may be substituted for certain required courses. For further description of the course, students should

refer to the list of courses under Education in the pages following. Write for reservations. Address the Dean of the College of Education.

industrial arts inspection trips

Continuing the innovation of 1937 the Industrial Arts Department will again in the present Summer Session sponsor the shop inspection trip to selected secondary schools. The purpose is to study school laboratories for suggestions as regards placement of benches and power machinery, the locating of hand tools and their care, the practices followed in distributing and accounting of supplies, and shop layouts in general.

All students registering in industrial arts and related courses are welcome to make the trip. Persons not attending the University in this session who are desirous of joining the inspection group should communicate with members of the staff in the Department. Nominal charges to cover the actual cost of transportation in private automobiles, determined within the group participating, are the only charges made.

Announcement of necessary arrangements will be posted on the campus bulletin boards well in advance.

industrial arts luncheon meetings

Throughout the summer a series of called luncheon meetings will be sponsored by Epsilon Pi Tau, the professional industrial arts fraternity, and directed by a member of the Department. As in previous years, they will center about pertinent problems in the field of industrial arts in its several phases in education and industry. Problem topics, such as "The Relation of Industrial Arts to Engineering" and "Industrial Arts in the Elementary School," have been presented by guest speakers and developed in subsequent round-table discussion by members of the group. All administrators, supervisors, teachers and others interested in industrial arts are cordially invited to attend and to participate in the discussions.

The first meeting will be held at the Hotel Berry, Wednesday, June 26, 1940, at 12:15 noon. Reservations should be made with the officers of the fraternity or members of the Department by June 25.

summer music organizations

Directors of two major music organizations, band and choir, are to organize similar music groups among the summer session students and faculty. Credit is given for participation in these organizations if desired. The personnel in each of the groups is limited to those who can meet the necessary qualifications. Those interested should consult the Director of the School of Music.

university health service

The University will maintain a health service program during the summer session for students. A health fee of \$1 for the eight-week session provides for each student one complete health examination with proper card records and check-up examinations as required. The infirmary will provide clinical service for minor ailments of students presenting themselves at the hours specified by the Clinic.

The University medical officer will make diagnostic visits to students only in cases suspected of an infectious or contagious character. Medical care will be secured by the students through physicians of their own choice at their own expense. The University medical officer will not be 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.

alumni association

The first graduate of Ohio University, Thomas Ewing, received his degree in 1815. From that time until the present, more than 13,000 persons have received diplomas bearing the name and seal of the University. An even greater number—perhaps twice as large—have spent considerable periods of time on the campus, even though they did not graduate. These men and women are to be found in every county in Ohio, in every state in the Union, and in a large number of foreign countries.

The Alumni Association of Ohio University is the official organization of these graduates and former students of the University. It is the enduring link between the University in Athens and her alumni in all parts of the world. It was established June 22, 1859, "to cultivate fraternal relations among the alumni of the University and to promote the interests of our alma mater by such means as the Association may from time to time deem best." This same spirit and these objectives have persisted until the present time.

The Association maintains a central office in Wilson Hall on the campus, with an executive officer, the Alumni Secretary. It is the business of the Alumni Office to keep a file of the graduates of the University in which is recorded their location, occupation, etc. Other activities of the office include publication of a monthly magazine, "The Ohio Alumnus," the collecting and cataloging of historical material concerning the University, and the organization of subsidiary alumni groups known as chapters.

Alumni chapters are located in Akron, Belmont County, Canton, Cincinnati, Chillicothe, Cleveland, Columbus, Coshocton, Dayton, Steubenville, Gallipolis, Jackson, Lima, Youngstown, Mansfield, Pomeroy-Middleport, Newark, Perry County, Pickaway County, Portsmouth, Marietta, Toledo, and Zanesville, Ohio; Chicago, Ill.; Charleston, Clarksburg, Huntington, and Parkersburg, W. Va.; Detroit, Mich.; Erie, Pittsburgh, and Philadelphia, Pa.; Los Angeles, Calif.; New York, N. Y.; and Washington, D. C.

Officers of the Association for 1939-40 are: President, H. J. Dickerson, 11, Lakewood; Vice President, Willis H. Edmund, '28, Akron; Secretary, Clark E. Williams, '21, Athens; Treasurer, William H. Fenzel, '18, Athens; Executive Committee, Dr. W. F. Copeland, '02, Chairman, Athens; Mrs. J. D. Murch, '16x, Cincinnati, R. F. Beckert, '23, Athens, Wilma L. Wyne, '25, Clarksburg, W. Va., and E. E. Higgins, '25, Gallipolis.

laboratory schools

The University maintains school laboratory facilities at the University Elementary School in Rufus Putnam Hall; in the public elementary school at The Plains, and in Athens at the Senior High School. In addition to offering practice work required for teaching certification, opportunities are available for observation in typical classroom situations, for gathering data in research problems, and for the testing of children.

The children of students are welcome to attend the schools throughout the entire first summer session. There is no tuition charge.

the students' grill

Last September the University established in the Student Union Building a Students' Grill, to serve as a center for students' social activities and as a place where they might get light lunches and fountain refreshments. The former ballroom has been converted into the grill where there are twenty-five booths, seating about 125 people at a time. Only students are employed in the positions required, with the exception of those of the manager and of cook.

In addition, there are two very attractive lounges newly furnished within the last year and a half. These rooms are open from eleven o'clock in the morning until ten o'clock in the evening and on the days of the week-ends until 11:00 p.m.

Students of the summer session are cordially invited to make full use of all the facilities of the grill.

CERTIFICATION FOR TEACHING

A student who is planning to enter the teaching profession 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 field. However, under the certification laws of the State of Ohio, a student enrolled in another college in the University may meet the requirements for a teaching certificate by completing the minimum certificate requirements and the requirements for a bachelor's degree. In addition to the minimum requirements, the student needs to meet the prerequisites for the professional courses offered in the College of Education, and especially the requirements specified for the courses in observation and participation and in student teaching.

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

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

certification for elementary teaching

The requirements for the elementary courses leading to a degree or a diploma in the College of Education in all cases include the minimum requirements specified by the State of Ohio Department of Education which are:

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Professional Courses		Music	
Introduction to Education	2	Literature and appreciation	2
Educational Psychology I	2	Introduction to music	2
Educational Psychology II	2	Music education	2
Principles of Education	2	Practical Arts	3
School Management	2	Science	
Methods—Reading (3), Skills (3), Content (3)	9	General Science or Biology	
Student Teaching	5	Social Studies	
Art		Composed of integrated base course plus pertinent electives or distributed credits in history, political science, sociology, economics, principles of ge- ography, problems of rural and urban life	24
Including graphic expression, design, materials and methods	6	Total required courses	92
English			
Including children's literature (3), base course, speech, and guaranteed gram- matical competence	15		
Health and Physical Education			
Hygiene	3		
Health activities	3		

The State of Ohio Department of Education has recently made a number of changes in elementary certification. During the transition period the student pursuing a course and the teacher in the field need to have in mind the following certification requirements:

Date of Entrance	Requirements by Date of Completion	Certificate Granted
September, 1938	64 semester hours on a three-year diploma course by Sept. 1, 1940	Temporary certificate at the request of the county, city, or exempted village superintendent. Renewable if 12 semester hours are completed during the year. Four-year provisional certificate on completion of three-year course.
September, 1939	Three-year diploma by Sept. 1, 1942	Four-year provisional certificate.
September, 1940	96 semester hours on degree requirements by Sept. 1, 1943	Temporary certificate, at request of county, city, or exempted village superintendent. Renewable as above until completion of requirements for the degree.
September, 1941	B. S. in Ed. degree	Four-year provisional certificate.

The outlined certification plan above applies only to new entrants in the field of teaching in the elementary schools in the State of Ohio. Certificates issued prior to the new regulations are valid.

certification for secondary teaching

The completion of a bachelor's degree course and the minimum certification requirements qualify a student for teaching in the secondary or special fields. The minimum certification requirements include the minimum requirements in education and the minimum requirements for the teaching subjects. The certificate granted qualifies the student to teach the specified subjects in the secondary schools and in the upper grades if the work is departmentalized.

The minimum requirements in Education (the professional requirements) and in Academic and Special Subjects which qualify a student for teaching in high school:

Professional requirements for provisional high school and special subject certificates:

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

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

Minimum requirements in various teaching subjects for a provisional high school certificate:

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Art	24	Biology	3
Drawing	5	Other science electives or excess in above	6
Design, painting, sculpture	9	(General Science will also be added to a certificate on the basis of an integrated base course and pertinent electives, totaling 15 sem. hrs.)	
Appreciation or History	7	History (Prerequisite—2 h.s. units)	15
Methods, including teaching materials, sources, organization, observation	3	World History	3
Biological Science (Prerequisite—1 h.s. unit)	15	American History	3
Zoology	3	Political Science	3
Botany	3	Pertinent electives or excess in above	6
Or General Biology	6	Home Economics	20
Pertinent electives	6-9	Foods and Nutrition	6
Bookkeeping	9	Textiles and Clothing	6
(Bookkeeping, Accounting, Methods)		Home Management, Child Development, Housing, Household Equipment, Home Furnishings, Family Relationships, Consumer Education, Home Hygiene or Home Nursing	6
Bookkeeping—Social Business	20	Methods	2
Bookkeeping and Accounting	9	Industrial Arts	24
Business Law, Economic Geography, Economics, Business Organization, or Pertinent electives	11	Distribute over the following:	
Earth Science (Prerequisite—1 h.s. unit)	15	Graphic Arts—drawing, planning, printing, photography, duplicating	
Geology	3	Woods—furniture construction, carpentry, wood finishing	
Geography	3	Metals—sheet metal, art metal, foundry, machine metal work	
Pertinent electives or excess in above	9	Applied Electricity — communication, transportation, power	
English (Prerequisite—3 h.s. units)	15	Ceramics—clay and concrete	
English Composition	6	Methods and Organization	
English and American Poetry	3	Languages (Prerequisite 2 h.s. units) 15	
English and American Prose	3	(15 semester hours in the language in which certification is desired)	
Pertinent electives or excess in above	3		
General Science	15		
Physics	3		
Chemistry	3		

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Mathematics (Prerequisite 2 h.s. units)	15	Salesmanship—Merchandising	20
College Algebra	3	Marketing principles	3
College Geometry	3	Salesmanship	3
Trigonometry	3	Advertising, Merchandising, Retailing, Economic Geography, or pertinent electives	14
Pertinent electives or excess in above	6		
Music—Instrumental	24	Science (Comprehensive Major)	40
(Valid in both elementary and high school)		An integrated base course and perti- nent electives or the total distributed over the following: Physics, Zoology, Botany, Geology, Chemistry, and As- tronomy	
Harmony (written, oral, and key- board), sight singing, ear training	10		
History and appreciation	4	Social Science (Prerequisite 1 h.s. unit)	15
Applied music (orchestral instruments)	4	Economics	3
Music education, including instrumen- tal methods and conducting	6	Sociology	3
Membership in band or orchestra		Industrial Geography	3
		Pertinent electives or excess in above	6
Music—Vocal	24	Social Studies (Comprehensive Major)	40
(Valid in both elementary and high school)		An integrated base course and perti- nent electives or the total distributed over the following: American and Modern European History, Economics, Sociology, Political Science, Principles of Geography	
Harmony (written, oral, and key- board), sight singing, ear training	10		
History and appreciation	4	Speech	15
Applied music (piano or voice or both)	4	Distribute over the following: Speech fundamentals, Interpretative reading, Speech correction and voice, Dramatic production, Public address and dis- cussion	10
Music education, including methods for elementary and high school, obser- vation, participation, conducting	6	Excess in above or pertinent electives	5
Membership in some choral group			
Physical Education	16	Stenography—Typing	20
Principles, Organization, and Admin- istration of Health and Physical Edu- cation	4	Shorthand	9
Theory and practice, including stunts, apparatus, tumbling, swimming, danc- ing, etc.	4	Typing	3
Theory and practice, including athletic coaching in intramural and interscho- lastic athletics	4	Methods	2
Health education, including teaching of health and school health problems	4	Office Practice, Business English, or Pertinent electives	6
Physical Science (Prerequisite—I h.s. unit)	15	Typing (Typing and methods)	5
Physics	6		
Chemistry	6		
Pertinent electives or excess in above	3		

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

After September 1, 1939, teaching subjects will not be designated as majors and minors. The certificate will, however, indicate the number of hours preparation in each subject listed thereon.

Minimum requirements in special subjects for a provisional special certificate:

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Art	60	Instrumental Classes	4
Drawing	15	Theory (Ear training, sight singing, dictation, harmony, etc.)	16
Design, Painting, Sculpture	25	Applied Music	16
Appreciation and History	10	History, Appreciation, Literature	4
Methods, teaching materials, sources, organization, observation and student teaching	10	Ensemble	4
Business Education	45	Music—Vocal	53
Minimum requirements:		Methods, Materials, Observation	6
Typing	3	Student Teaching	3
Shorthand	6	(Elementary and secondary levels)	
Bookkeeping and accounting	6	Conducting	2
Methods	2	Class Voice	2
Distribute over the following:		Theory (Ear training, sight singing, dictation, harmony, etc.)	16
Stenographic—Typing		Applied Music	16
Shorthand, Typing, Office Practice, Business English and Correspondence, Methods in Shorthand and Typing		History, Appreciation, Literature	4
Bookkeeping—Social Business		Ensemble	4
Business Law, Accounting, Economic Geography, Economics, Business Organization		Physical Education	40
Salesmanship—Merchandising		Principles, Organization, and Administration of Health and Physical Education	4
Marketing Principles, Salesmanship, Advertising, Retailing, Merchandising	28	Theory and Practice of Physical Education	12
Home Economics	35	(Games of low organization, elementary physical education, play and recreation, first aid, activities other than athletics such as: games, stunts, gymnastics, apparatus, dancing, tumbling, swimming)	
Foods and Nutrition	8-15	Theory and Practice of Physical Education	6
(Including normal nutrition, meal planning, selection, preparation, and serving)		(Athletic coaching, including inter-scholastic and intramural sports such as: (men) football, soccer, speedball, basketball, baseball, tennis, track; (women) soccer, volleyball, hockey, basketball, baseball, tennis, track)	
Clothing	8-15	Health Education	10
(Including selection, construction, textiles, art principles)		(The teaching of health and school health problems; Hygiene, including personal health, public health, child hygiene, sanitation, immunology, and allied subjects)	
General	12-19	Individual Corrective Gymnastics and Normal Diagnosis	2
(Including child development, family relationships or eutenics, housing, home furnishings, equipment, home management, home hygiene or home nursing, consumer education)		Human Anatomy and Physiology	6
Industrial Arts	45	Speech	40
Distribute over the following:		Speech Fundamentals, Interpretative Reading, Speech Correction and Voice, Dramatic Production. Public Address and Discussion (Including debates, extempore speaking, panel discussion, the oration, the persuasive speech, and the various original speech forms), Special Methods in Teaching Speech	34
Graphic Arts—drawing, planning, printing, photography, and duplicating		Other speech courses or excess in above	6
Woods—furniture construction, carpentry, and wood finishing			
Metals—sheet metal, art metal, foundry, and machine metal work			
Applied Electricity—Communication, transportation, and power			
Ceramics—Clay and concrete			
Methods and Organization			
Music—Instrumental	53		
Methods, Materials, Observation	4		
Student Teaching	3		
(Elementary and secondary levels)			
Conducting	2		

The above subjects may also be added to the provisional high school certificate.

Minimum requirements for a provisional certificate in vocational subjects:

Courses offered by Ohio University outlining a major in Home Economics qualify a student for a provisional vocational certificate in the field.

UNIVERSITY ORGANIZATION

Ohio University is organized to include: (a) the University College; (b) the undergraduate degree granting Colleges—the College of Arts and Sciences, the College of Education, the College of Commerce, the College of Applied Science, and the College of Fine Arts; (c) the Graduate College; and (d) the Division of Physical Welfare.

The work of the academic year is on a two semester and two summer sessions plan. The student who enters the University from high school is registered in the University College for the period usually called the Freshman year. This year, together with the three years required in the degree granting colleges, enables him to complete the requirements for the baccalaureate degree.

university college

The University College is organized primarily for students regularly matriculating as freshmen in Ohio University. It was established in 1935 with the view of helping the incoming student make his adjustments to college life rapidly and effectively. The college continues the general education of the student and offers effective preparation and guidance for the choice of the fields in which to specialize during the succeeding years of college life. The trend toward such an organization for freshmen is not new. 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.

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.

The training received in high school and in the University College is regarded as a unit. The objective is to insure that in this five-year period every student shall attain a minimum foundation of substantial general education. The standard now established for the high school period of four years plus the University College year 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 college foreign language, and one year of college laboratory science are regarded for this purpose as the equivalent of two units of high school work. However, a student who enters with only one unit in a foreign language or two units in a laboratory science is required to complete one year of college work in the subject. A student who enters the University with less than four units of English may satisfy the five-year requirement by passing the regular course in freshman English.

college of arts and sciences

The College of Arts and Sciences aims to give the student a liberal education and at the same time to assist him in finding his vocational interest and aptitude. The student who has definitely decided upon his future career is encouraged to use his junior and senior years in preparing for a particular profession or vocation. To assist the student in realizing this two-fold objective, the College of Arts and Sciences provides a wide range of courses in English, foreign languages and literature, in mathematics, psychology, and philosophy, and in the biological, physical, and social sciences. While meeting the requirements for a degree in these fields, a student may elect to complete a major or minor in journalism, music, or painting, or take professional courses in the other colleges. 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.

A student registered in the College of Arts and Sciences may work for the degree of Bachelor of Arts or the degree of Bachelor of Science. In either case he has a considerable choice of subjects and a wide range of electives. In general, the distinction between the curricula for the two degrees lies in the fact that, in completing the requirements for the degree of Bachelor of Arts, the student is free to choose a major or minor from English, a foreign language and literature, one of the fine arts, a natural science, a social science, or mathematics, while the student who qualifies for the degree of Bachelor of Science is expected to complete 54 hours in the natural sciences and mathematics. Special curricula are provided for premedical, pre dental, pre nursing, and medical technology students, as well as for students preparing to enter industrial chemistry, government conservation work, and social service as a profession.

Candidates for these degrees will complete 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 comprising approximately 94 semester hours under the direction of the College of Arts and Sciences.

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 the 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 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 completion of curricula covering a course of four years with specialization in elementary education, in any of the academic fields for teaching in high schools, or in the special subjects of art, industrial arts, home economics, physical welfare, commerce, or music. Candidates for the degree will complete a minimum of 124 semester hours and 124 scholastic points.

Candidates for the degree of Bachelor of Science in Education must complete certain general requirements and other specialization requirements called majors. Subjects completed in University College (freshman year) may in part satisfy general requirements and the requirements in the major. In addition to the major, the student is required to complete at least one minor and, if possible, two, with fifteen to twenty-four semester hours. All specified requirements of the State of Ohio Department of Education must be met in the majors and minors.

By September 1945 all beginning teachers in the elementary schools of the State of Ohio must have the bachelor's degree. In view of this extension of the period of preparation for teaching in the elementary schools, the University has discontinued all two-year diploma courses.

During this transition period, the College of Education is temporarily offering three-year courses for those who wish to become Kindergarten-Primary or Intermediate Grade teachers. These three-year courses require 94 hours and 94 points for the diploma including the completion of specified courses. Students will be given the opportunity to meet the requirements of the State Department of Education during the period of transition to the degree requirement. All such courses must be completed by September 1, 1942.

college of commerce

The College of Commerce offers curricula leading to the degrees of Bachelor of Science in Commerce, Bachelor of Science in Secretarial Studies, and Bachelor of Science in Journalism.

The flexibility of the curricula leading to the degree of Bachelor of Science in Commerce permits emphasis in one or more of several fields. These fields include accounting, advertising, banking, business law, economics, finance, labor, management, marketing, public utilities, taxation, and statistics. Considerable flexibility is present also in the curricula leading to the degree of Bachelor of Science in Secretarial Studies. Its main purpose, however, is to prepare secretaries for responsible positions in business offices, other types of offices, and the civil service.

The College of Commerce cooperates with the College of Education in offering to students in the latter College teaching majors in the following: bookkeeping-social business, business education, economics, salesmanship-merchandising, and stenography-typing. These majors satisfy the requirements of the revised regulations for State certification in business education. Similarly, students interested in obtaining State minors in business education can meet these requirements through the offerings of the College of Commerce.

The School of Journalism offers curricula sequences which permit specialization in four fields or divisions of journalism: general writing and editing, feature and magazine writing, advertising, and business management. The courses within these curricula may be varied to meet the needs of students who have special interest which they would like to pursue.

All candidates for degrees in the College of Commerce will complete 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 which comprise approximately 94 semester hours.

college of applied science

The College of Applied Science composed of the Departments of Agriculture, Civil Engineering, Electrical Engineering, and Industrial Arts, and the School of Home Economics offers the following degrees: Bachelor of Science in Agriculture, Bachelor of Science in Architectural Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Industrial Engineering, and Bachelor of Science in Home Economics. Each degree offers several options leading to a certain amount of specialization for students electing a more definite course of study.

The curricula in engineering give the student training in the fundamentals of physics, mathematics, and chemistry, the fundamentals of engineering plus an opportunity to elect certain humanizing subjects so essential to the well-rounded background of the modern engineering student.

The School of Home Economics aims to train students in the following fields: (1) home and family living; (2) home administration; (3) the vocations of institutional management, editing and writing, designing, purchasing, advertising, and retailing; (4) teaching in the elementary schools, high schools, vocational schools, and adult education classes.

The Departments of Agriculture and Industrial Arts also offer courses which may be elected as majors or minors by students seeking degrees in other colleges. All courses offered in the College of Applied Science are open to students in the other colleges who have the required prerequisites.

Candidates for degrees in the College of Applied Science will complete the program of the University College, the requirements of physical welfare, or military science, and three years of work under the direction of this college.

college of fine arts

Composed of three schools, the School of Dramatic Art, the School of Music, the School of Painting and Allied Arts, the College of Fine Arts is designed to offer the student a liberal cultural education in the fine arts and a thorough preparation in one of the three specialized fields. The Bachelor of Fine Arts degree with emphasis in one of the three divisions is awarded to students who successfully complete the prescribed curriculum.

This curriculum involves the pursuance of a major of 32 semester hours in the chosen field and 16 semester hours in each of the other two. In exceptional cases, upon application to the Chairman of the College, 12-16 semester hours may be presented to satisfy each minor requirement.

Courses in the College of Fine Arts may be elected by students in other colleges. It is possible for such students to complete the requirements for a degree in their respective colleges with a major in dramatic art, or in music, or in painting and allied arts.

A minimum of 124 semester hours and 124 scholastic points are required for the degree. The prescribed work of the University College, 4 semester hours of either physical welfare or military science, and approximately 94 semester hours under the direction of the College of Fine Arts constitute the minimum curriculum required of candidates for the degree of Bachelor of Fine Arts.

graduate college

The Graduate College offers facilities for advanced study and research at the graduate level to teachers and others interested in graduate work. A wide range of courses in academic and professional fields is made available through the various divisions of the University. The college confers the degrees of Master of Arts, Master of Science, Master of Education, and Master of Fine Arts.

Admission. Students who hold a bachelor's degree from an accredited college or university are eligible for admission to the Graduate College. Applicants for admission from some unaccredited institutions are admitted conditionally. An admission blank may be obtained from the office of the registrar. Application for admission should be filed with the registrar at least a month before the opening of the session in which the applicant plans to begin his studies, and should be accompanied by an official transcript of the applicant's undergraduate record, except in the case of graduates of Ohio University. Upon being admitted to the Graduate College the student confers with the dean of the Graduate College who counsels with him regarding his plans for graduate study and arranges for faculty advisers in the major and minor fields.

The student's outline of graduate study is made by the advisers in conference with him. 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 admitted to the Graduate College and who pursues courses with no regard to a major or a minor and with no thought of qualifying for a master's degree will be classified as a special student.

Credit and Residence. At least 32 semester hours of credit are required for the master's degree. Transfer students are required to complete at least 24 semester hours of credit at Ohio University. Courses taken by correspondence will not be accepted for credit toward the master's degree. However, a maximum of 6 semester hours taken in group extension, or the Portsmouth Division, or the Zanesville Division, will be accepted toward the master's degree, provided that these courses are conducted by instructors who regularly teach them when offered on the campus, and provided further that not more than 2 semester hours of transfer credit are submitted for the degree. A graduate student who is employed on full time is limited to 3 semester hours in a semester or a summer session.

All work submitted for graduate credit shall be of high quality. The minimum standard acceptable is an average grade of B in all courses attempted

for graduate credit, with no grade below C, and not more than twenty per cent of the work attempted with a grade of C.

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. Transfer students are 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, provided the other requirements for the degree are satisfied. 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. Credit is not allowed for a graduate course unless all 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.

Courses for Graduate Credit. Credit toward a graduate degree will be 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 have the approval of the advisers and the dean, as a part of the student's outline of study. 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. From 6 to 12 semester hours in undergraduate preparation are usually sufficient to begin graduate work with a minor in a subject.

Fees. The fees for graduate students are the same as those for undergraduates. Refer to the preceding sections under "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. 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 departments closely related to the major field. However, all of the work for the master's degree may be done in one school or department on recommendation of the major adviser and with the approval of the Graduate Council.

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

Examination and Thesis. As partial fulfillment of the requirements for the master's degree, each candidate shall pass creditably two examinations, one written and one oral, and shall submit a satisfactory thesis upon a subject approved by the major 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 staffs of the departments or divisions in which the candidate has done his work.

The candidate prepares his thesis under the direction of his major adviser on a subject in the field of his major work. The thesis provides an opportunity for the student to formulate and express results of his research and study. For students who desire to avail themselves of the instruction, a course on thesis writing is offered by the Department of English. 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.

The candidate submits to the chairman of his examining committee, not later than one week before the date of his oral examination, three type-written copies of his thesis in final form. After the thesis is approved, and not later than five days before commencement, the candidate files two unbound copies of the thesis with the University librarian, and one bound copy of the thesis in accordance with directions obtained from the office of the dean. The two copies filed with the University librarian are bound and retained in the university library, and the copy filed with the dean is presented to the school or department in which the work has been done.

Graduate Fellowships and Assistantships. Ohio University usually requires the services of twelve to twenty graduate teaching fellows and graduate assistants. During the present academic year ten students are pursuing graduate work under fellowship appointments, and twelve under appointments as graduate assistants. The same number probably will be required in the academic year 1940-1941. 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 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 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 field and is permitted to carry eight to ten 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 must be filed with the dean of the Graduate College by April 1 of the academic year next preceding the year when the appointment begins. Application blanks may be obtained from the office of the dean.

Special Appointments for Women. Two to five positions are usually open annually for graduate student deans. The appointees receive a stipend of \$300 each, with exemption from registration fees, and are expected to give one half of their time assisting the dean of women and to carry one half 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 eighteen semester hours in the social sciences. Application for one of these appointments 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 fees. 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 for one of these positions may be addressed to the director of Dining Halls.

division of physical welfare

The Division of Physical Welfare offers a program for graduate and undergraduate students who wish to major or minor in physical education, health and recreation. Students are trained to teach or supervise in the following fields: elementary and secondary schools, colleges, state departments of education, city, rural and industrial recreation, summer camps and playgrounds. All of the facilities of the division are available for both men and women.

The Division maintains two gymnasiums, one for men and the other for women, and offers facilities for expression in sports and hobby classes, rhythmic and swimming. Tennis courts and athletic fields are available for summer school students. Each afternoon, except Saturday, the division offers a recreational hobby project designed to meet the interests and needs of students. Instruction is given to volunteer groups in the activities desired. Instruction is also given in social and square dancing. Students interested in these activities should consult a member of the staff of this division.

university extension division

The Extension Division offers two types of service whereby students may earn college credit while living at home—extension classes and correspondence study.

Extension classes are organized in any community within a reasonable distance of the University provided the required number of students can agree upon a course. The number of students required depends upon the distance from the campus. The instructor will meet the group once a week for a class session, the number and length of which are determined by the amount of credit allowed for the course.

Under certain conditions six semester hours of extension class credit can be applied toward the Master's degree.

The correspondence division offers over 230 courses, taught by members of the regular faculty from over 30 departments. The courses appeal to teachers, business men and women, ministers, social workers, and others who want to engage in systematic study during their spare time. Qualified students are accepted at any time.

In extension classes and in correspondence study students may earn forty semester hours to apply towards a bachelor's degree.

Persons who are employed full time are limited to six semester hours a semester and students who are enrolled in a college or university are not accepted without the permission of the dean of the college.

A student who has not previously enrolled at Ohio University must file an application for admission to the Extension Division and if he intends to be a candidate for a degree at Ohio University, he must furnish a complete transcript of work done elsewhere; if he does not intend to be a candidate for a degree at Ohio University, then only a statement of good standing, honorable dismissal, or graduation from another college or university is necessary. Those who are entering college for the first time must file a transcript of high school credits. Persons over twenty-one years of age who have not met university entrance requirements are admitted on condition that they show ability to carry the work.

In 1931, Ohio University was admitted to the National University Extension Association after a very careful inspection by a special committee. The National University Extension Association is made up of over fifty recognized colleges and universities that maintain divisions of university extension. It promotes standards by strict procedures for admission to membership.

Persons interested should write to the Extension Division for a special bulletin and other information.

the portsmouth division

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

Residence credit, subject to certain prescribed restrictions, is given for undergraduate work completed in this Division.

Students interested should refer for particulars to the complete University Bulletin.

military science and tactics

Although no work is offered in the Division of Military Science and Tactics during the summer sessions, the following explanation of military training at the University is included in the bulletin for the benefit of any beginning students and for the general information of all students at the University. The Reserve Officers' Training Corps was established in the United States under the National Defense Act of June 4, 1920. The Board of Trustees at

Ohio University in 1935 entered into an agreement with the Federal Government for the establishment of a voluntary ROTC unit. Under this agreement the University maintains an elective course in military training for men students who are physically qualified. A student has the choice between two years of military training and the required first and second year courses in the Division of Physical Welfare. Those who complete the first two years of military training and two additional years of five hours each semester are eligible for commission in the Officers' Reserve Corps of the United States Army. The first two years carry one hour of credit each semester and the last two years, three hours of credit each semester. The two-year course once entered upon becomes a prerequisite for graduation unless the student, for sufficient reason, is discharged from the obligation to complete it.

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 deposit of \$6, which is assessed at the beginning of the first semester for the year's course, is required of students enrolling for the first time in Basic Infantry to cover the 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 uniforms which last year amounted to \$29 for the first year. Upon entering the second year he receives a uniform maintenance allowance which last year was \$7. In addition "commutation of rations" is paid the advanced 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 may 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.

COURSES OF INSTRUCTION

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

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

1-99 for University College students

100-199 for undergraduate students

200-299 for advanced undergraduate and graduate students. These courses are not open to sophomores even though they have fulfilled the prerequisites of the courses.

300-399 for graduate students.

When a course requires a fee, the amount is stated in the description of the course.

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 indicated.

Credit for a course is indicated by the number in parentheses. One semester hour, (1), is the equivalent of two recitations or four or more laboratory periods a week throughout the eight weeks' session. A course carrying a variable credit, (1-4), indicates the minimum and maximum amount of credit allowed for the course during the summer session. The maximum amount of credit allowed for the course is indicated in the description of the course in the general catalog. A student may enroll for such a course a number of times provided the total registration for the course does not exceed the maximum credit.

AGRICULTURE

4. FORESTRY. Ways and means of identification and classification of native trees and shrubs. A study of vernalion, periods of blooming, and seed germination. Fee \$2. (2) 7 M T Th F Wiggin

109. LANDSCAPE GARDENING. The principles of landscape gardening as applied to home grounds and civic improvement, and the culture of ornamental flowers and shrubs. 4 lec. and 4 lab. Fee \$3. (3)

9 daily and arranged Wiggin

143. GENETICS. Inheritance, environment, and other factors relating to variations, mutations, and changes leading to the origin of new races and varieties of plants and animals. (3) 8 daily Wiggin

BOTANY

1. FRESHMAN BOTANY. A general survey of the field of botany. A study of the vegetative structures of higher plants. Fee \$3. (3)
7 daily, 8 M Th Visiting Lecturer
2. FRESHMAN BOTANY. A continuation of Bot. 1 which, however, is not a prerequisite. Bot. 1 and Bot. 2 may be taken concurrently. Fee \$3. (3)
9 daily, 10 M Th Visiting Lecturer
101. GENERAL BOTANY. A course in botany for advanced students beginning the subject. Not open to those who have credit in Bot. 1, 2. Fee \$3. (3)
11 daily, 10 T S Visiting Lecturer
133. NATURE STUDY. A course in which the student is introduced to a better understanding and appreciation of the living things in nature about him. Fee \$3. (3)
8 daily, 9 W S Matheny
134. NATURE STUDY. A continuation of Bot. 133 which, however, is not a prerequisite. Bot. 133 and Bot. 134 may be taken concurrently. Fee \$3. (3)
10 daily, 11 W S Boetticher
- 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. Prereq., 1 yr. of science. (2)
9 M T Th F Matheny
204. PLANT ECOLOGY. A study of plants in relation to their environment. Prereq., 1, 2 or 101, 102. Fee \$3. (3)
10 daily, 11 W S Matheny
207. MYCOLOGY. A general survey of fungi. The structural characteristics of the various groups are studied. Prereq., 1, 2 or 101, 102. Fee \$3. (3)
7 daily, 8 W S Boetticher
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. Prereq., 1, 2 or 101, 102. Fee \$3. (3)
9 daily, 8 T Th Boetticher
281. RESEARCH IN BOTANY. Prereq., 20 hrs. Fee \$1 for each credit hour. (1-6)
Arranged The staff
395. THESIS. Prereq., permission. (1-8)
Arranged The staff

CHEMISTRY

1. GENERAL CHEMISTRY. An introductory course devoted chiefly to the fundamental principles of inorganic chemistry. It deals with the atomic

theory and the chemical viewpoint of matter. Especial emphasis is placed upon the writing and the interpretation of the chemical equation. (3)
9 daily Gullum

1. GENERAL CHEMISTRY LABORATORY. A laboratory course arranged to accompany Chem. 1. It will emphasize elementary laboratory methods in science and practice in manipulation of the chemical balance and its application to elementary quantitative experiments. Fee lab. \$4, breakage \$3. (1)
Arranged Gullum

2. GENERAL CHEMISTRY. A continuation of Chem. 1. Emphasis is placed upon the study of the metals and non-metals and their compounds. The aim is to show the correlation between theory and fact and their application to chemical industry and the problems of everyday life. Prereq., 1 or 3. (3)
11 daily Gullum

2. GENERAL CHEMISTRY LABORATORY. A laboratory course to accompany Chem. 2. Fee lab. \$4, breakage \$3. (1) Arranged Gullum

109. QUANTITATIVE ANALYSIS. This course deals with both the problem and laboratory aspects of analytical chemistry; it teaches the rapidity and accuracy necessary to analytic work, also the interpretation of results and the exercise of care and integrity. The emphasis is upon volumetric analysis. Prereq., 4 or 105. Fee lab. \$4, breakage \$5.
8 M T Th F, 12 hrs. lab. arranged Morton

113. ORGANIC CHEMISTRY. An introductory course covering both aliphatic and aromatic compounds. Emphasis is placed upon nomenclature, the fundamental principles of structures and reaction tendencies which account for the basic theories in organic chemistry. Prereq., 2 or 4. (3)
8 daily Dunlap

117. ORGANIC CHEMISTRY LABORATORY. A brief laboratory course to accompany Chem. 113. Emphasis is placed upon typical organic preparations and laboratory operations to illustrate some of the most important reactions in both the aliphatic and aromatic series. 12 lab. Prereq., 113 or with 113. Fee lab. \$5, breakage \$5. (2) Arranged Morton

168s. TEACHING OF CHEMISTRY AND LABORATORY PRACTICE. (Same as Ed. 168s) Instruction and practice in laboratory teaching and supervision. Each student is required to receive directions from the instructor in charge of the laboratory and to be responsible for a small group of students. Prereq., permission. (2) Arranged Morton

209. ADVANCED ORGANIC CHEMISTRY. A systematic review of aliphatic and aromatic compounds to suit the needs of the class, followed

by a study of heterocyclic compounds to include some of the most important medical and biological organic compounds. Prereq., 120. (3)
7 daily Dunlap

251. SPECIAL PROBLEMS IN CHEMISTRY. An advanced laboratory course designed to supplement work already completed in the fields of organic, physical, and analytical chemistry. The course will include conferences and special library assignments. Prereq., 24 hrs. Fee lab. \$2, breakage \$5. (2)
Arranged The staff

395. THESIS. Prereq., permission. (1-4) Arranged The staff

CIVIL ENGINEERING

1. MECHANICAL DRAWING. Free hand lettering, use of instruments, geometric constructions, orthographic projection, revolution, auxiliary and sectional views, and dimensioning. 12 lab. (2) Arranged Gaylord

2. MECHANICAL DRAWING. Isometric, oblique, detail and assembly drawings. Intersections, developments, structural, electrical, and architectural drafting, tracings and blue prints. 12 lab. Prereq., 1. (2)
Arranged Gaylord

74. ENGINEERING INSTRUMENTS. Slide rules, verniers, and other calculating machines. Prereq., Math. 5. (1) 10 T Th Gaylord

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 parallel and oblique perspective. 6 lab. Prereq., 2. (1) Arranged Gaylord

CLASSICAL LANGUAGES

latin

165r. TEACHING OF LATIN. (Same as Ed. 165r) A comprehensive study of the aims and methods of teaching Latin, with some attention also to the comparative merit of textbooks, and important reference materials. Prereq., 103 or permission. (2) Arranged White

211. CICERO AND CATULLUS. Selected letters to give an intimate view of Cicero's character and an inside story of his times. Choice poems of Catullus. Summer school students may take either or both. Prereq., 103 or permission. (1-3) 10 daily Jolliffe

214. MEDIEVAL LATIN SELECTIONS. Prose and poetry from the fifth to the twelfth centuries designed to acquaint the student with the life, beliefs, superstition, and humor of the Middle Ages. Prereq., 103 or permission. (2) 8 M T Th F Jolliffe

221. Suetonius. The lives of Julius Caesar and Augustus, supplemented with facts from other sources. Biographical and historical material of importance to the teacher of high school Latin. Prereq., 103 or permission. (3) 9 daily White
227. ROMAN HISTORY IN THE CLASSICAL PERIOD. 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) 11 W S 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) 11 M T Th F White
233. ADVANCED LATIN SYNTAX. A study of the principles of Latin syntax with emphasis upon their application in translation. Prereq., 103 or permission. (1) 8 W S White
240. SPECIAL WORK IN LATIN. Individual work under careful guidance, designed to solve the problems of special needs. Prereq., 103 or permission. (1-8) Arranged The staff
395. THESIS. Prereq., permission. (1-8) Arranged Jolliffe

COMMERCE

accounting

- 75-76. ELEMENTARY ACCOUNTING. The fundamental principles of accounting theory and practice as they effect 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 second four weeks work. (6) Acct. 75 (3) First four weeks. 7, 8 daily Fenzel
Acct. 76 (3) Second four weeks. 7, 8 daily Fenzel
125. INTERMEDIATE ACCOUNTING. The preparation and analysis of balance sheet and income statements, principles of actuarial science, accounting for corporate net worth, consignments, installment sales, and current asset valuation. Prereq., 76 or 102. (3) 10 daily Fenzel
175. COST ACCOUNTING. Manufacturing cost determination under the job-order and process systems. Prereq., 125. (3) 10 daily Ray
281. RESEARCH IN ACCOUNTING. Prereq., 175, 195, and permission. (2-8) Arranged The staff
395. THESIS. Prereq., permission. (1-8) Arranged The staff

287. RESEARCH IN BUSINESS TEACHING PROBLEMS.. (Same as Ed. 287) Prereq., 20 hrs. commerce, senior or graduate rank, and permission. (2-8) Arranged Cosgrove
391. SEMINAR IN BUSINESS TEACHING PROBLEMS. (Same as Ed. 391) Prereq., 20 hrs. commerce and permission. (2-8) Arranged Sponseller, Cosgrove
395. THESIS. Prereq., permission. (1-8) Arranged The staff
reguate, and aid business. Prereq., junior rank. (3) 9 daily Dykstra
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) Arranged Dykstra

economics

- 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. (6)
Ec. 101 (3) First four weeks. 7, 8 daily Hellebrandt
Ec. 102 (3) Second four weeks. 7, 8 daily Hellebrandt
219. ECONOMICS OF INSURANCE. The economic basis and practical applications of insurance. The organization of the business, essentials of the principal forms of insurance, such as life, health, accident, fire, marine, workmen's compensation, automobile insurance, fidelity and surety bonds, etc. Prereq., 102. (2) 10 M T T H F Hellebrandt
224. INDUSTRIAL STUDIES. An analysis of the major purposes of price and production, price stabilization, conservation, government regulation and ownership as concerned with selected basic industries. Prereq., 102. (3) 8 daily Parker
227. CURRENT ECONOMIC PROBLEMS. A discussion of economic problems arising currently. Prereq., 102. (3) 9 daily Parker
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) 11 daily Parker
281. RESEARCH IN ECONOMICS. Prereq., 15 hrs. and permission. (2-8) Arranged The staff
395. THESIS. Prereq., permission. (1-8) Arranged Hellebrandt

221. SÜETONIUS. The lives of Julius Caesar and Augustus, supplemented with facts from other sources. Biographical and historical material of importance to the teacher of high school Latin. Prereq., 103 or permission. (3) 9 daily White
227. ROMAN HISTORY IN THE CLASSICAL PERIOD. 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 11 W C 11:11:11

secretarial studies

- 15s. TYPEWRITING. A beginning course in typewriting. Students are expected to attain a speed of thirty-five words a minute. Fee \$3. (3) 9 daily, 3 hrs. arranged Sponseller
16. TYPEWRITING. Students are expected to attain a speed of forty-five words a minute. Fee \$2. Prereq., 15 or 15s. (2) 8 daily, 1 hr. arranged Cosgrove
31. SHORTHAND. A beginning course in Gregg Shorthand. Prereq., 15 or 15s, or with 15s. (3) 11 daily Gilmore
32. SHORTHAND. Students are expected to attain a rate of sixty words per minute. Prereq., 31. (3) 9 daily Cosgrove
120. BUSINESS LETTER WRITING. The principles of writing business letters and reports. Prereq., Eng. 2 or 4. (3) 10 daily Gilmore
- 151s. ELEMENTARY DICTATION AND TRANSCRIPTION. The fundamental principles of taking dictation and transcribing business letters. The standard for credit is the 100-word Gregg transcription test. Prereq., 16 and 32. (4) 8, 9 M T W Th F Gilmore
- 161t. TEACHING OF TYPEWRITING. (Same as Ed. 161t) Prereq., 15s or 16. (2) 10 M T Th F Sponseller
175. SECRETARIAL PRACTICE. Students spend six hours a week working in offices on the campus, and six hours in the secretarial practice laboratory. Conferences. Prereq., 151 and 171 or 180. (4) 1 hr. daily, 6 hrs. arranged Sponseller
180. OPERATION OF OFFICE MACHINERY. Six hours a week. Prereq., junior or senior rank. Fee \$2. (2) 11 daily Sponseller
235. COMMERCIAL CURRICULUM CONSTRUCTION. (Same as Ed. 235) A course involving the principles and factors necessary in the construction of a curriculum of commercial courses in the high schools of varied communities. Prereq., 20 hrs. commerce. (2) 7 M T Th F Cosgrove

287. RESEARCH IN BUSINESS TEACHING PROBLEMS.. (Same as Ed. 287) Prereq., 20 hrs. commerce, senior or graduate rank, and permission. (2-8) Arranged Cosgrove
391. SEMINAR IN BUSINESS TEACHING PROBLEMS. (Same as Ed. 391) Prereq., 20 hrs. commerce and permission. (2-8) Arranged Sponseller, Cosgrove
395. THESIS. Prereq., permission. (1-8) Arranged The staff

statistics

- 155-156. BUSINESS STATISTICS. Elementary statistical methods used in business. 8 lec. and 8 lab. Fee \$6. (6)
 Stat. 155 (3) Fee \$3. First four weeks. 7, 8 daily; lab. arranged Ray
 Stat. 156 (3) Fee \$3. Second four weeks. 7, 8 daily; lab. arranged Ray

DRAMATIC ART

3. PUBLIC SPEAKING. Study and practice to enable the student to build a speech that is both interesting and persuasive. The use of the voice and the body in the delivery of the speech. (2) 8 M T Th F Staats
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)
 9 M T Th F Dawes
25. PRINCIPLES OF ARGUMENTATION. Analysis of the debate proposition, preparation of the brief, study of evidence, and class debates. (2)
 10 M T Th F Staats
147. THEATRE WORKSHOP. Participation in the production process connected with plays presented by the University Theatre. Rehearsal, performance, and technical work connected with theatrical production. (1-2) Arranged Dawes
- 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., 12 hrs. English, or permission. (2) 11 M T Th F Dawes
- 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) 10 M T Th F 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 extracurricular activities such as debating, parliamentary procedure, panel discussions, and assembly programs. Prereq., 3, 15, 25, 102, or permission. (2) 9 M T Th F Staats

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. (3) Arranged Staats

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. (3) Arranged Dawes

395. THESIS. Prereq., permission. (1-8) Arranged The staff

EDUCATION

elementary education

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. (3) 10 daily Esch

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 the interpretation of results of tests. Fee \$2. (2) 7 M T Th F Benz

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) 10 daily Hampel

history and philosophy

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., 3 hrs. education and Psych. 5. (3) 8 daily 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) 10 daily Shoemaker

256. PROGRESSIVE EDUCATION. 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 including 255 and Psych. 5. (3) 7 daily Hampel

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) 1 M T Th F and 2 hrs. arranged Shoemaker

kindergarten-primary

1. PLAY AND PLAY MATERIALS. Play and its importance in child development, equipment and play materials, development of organized games. (2) 11 M T Th F Hoyle

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) 10 daily 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. Fee \$3. (3) 7, 8 M T Th F Allard

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) 10 daily Allard

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) 11 daily Quick

laboratory school supervision

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 255 or 256. (4-6)

Arranged Dewey

research and scientific techniques

281. EDUCATIONAL STATISTICS. The tabulation and graphical representation of measures of dispersion and central tendency. Practice in the use of statistical tables and calculating machines. Prereq., 6 hrs. education and Psych. 5. (3) 7 daily Howard

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) Arranged The staff

287. RESEARCH IN BUSINESS TEACHING PROBLEMS. (Same as Sec. St. 287) Prereq., 20 hrs. commerce, senior or graduate rank, and permission. (2-8) Arranged Cosgrove

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. Recommended for those planning to write theses in any of the fields of education. Prereq., 9 hrs. education and Psych. 5. (2) 1, 2 W; 2 hrs. arranged Benz

391. SEMINAR IN BUSINESS TEACHING PROBLEMS. (Same as Sec. St. 391) Prereq., 20 hrs. commerce and permission. (2-8)

Arranged Sponseller, Cosgrove

395. THESIS. Prereq., permission. (1-8) Arranged 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) I M T T F Hansen

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) 8 daily Dixon
9 daily McCracken

241. SCHOOL FINANCE. The place of school finance in the field of public finance, the sources of data, the sources of revenues, expenditures, economies, equalization, control of funds, and indebtedness. Prereq., 6 hrs. education including 3 hrs. of school administration, and Psych. 5. (3)
8 daily Sias

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)
Arranged Dixon

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, 232, or 255. (3)
7 daily Dewey

246b. WORKSHOP IN CURRICULUM BUILDING. A comprehensive and thorough study of the school curriculum, based on a workshop approach. Designed to provide opportunities for guidance and participation in working out problems in the curriculum brought in from actual experiences in the field. Opportunity for frequent informal conferences between groups of students, under the direction of carefully chosen specialists in the field of curriculum. Students will be given an opportunity to study the whole broad field of the curriculum, together with its philosophical and administrative implications, or to do intensive work on a specific problem. Prereq., 15 hrs. education, senior rank, teaching experience and permission. (6-9)
8, 9 daily; 1, 2, 3 M T W Th F
8, 9, 10, 11 daily; 1 M T W Th F
Chworowsky, Van Til, Hampel, Quick, and consultants

247a. VISITING TEACHER. (Same as Soc. 247a) A survey course in case work for teachers to consider the specific functions, relationships, and objectives of social case work in a school setting; the study of individual personalities of children and their behavior problems in relation to the school, home, and community; the demonstration of the effectiveness of early constructive work with individual maladjustments; supervised field work practice in visiting teacher work through the use of actual problem cases from the public schools. Prereq., 6 hrs. sociology, teaching experience, and permission. Fee \$3. (3) 8 T W Th, field work MacTavish

248. VOCATIONAL GUIDANCE. The various phases of educational and vocational guidance. Prereq., 6 hrs. education and Psych. 5. (2)

11 M T Th F Howard

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) 9 daily Van Houten

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) 8 M T Th F Benz

230. HIGH SCHOOL ADMINISTRATION. Problems of school and class organization, discipline, grading, curricula, guidance, and extraclass activities in the secondary school. Prereq., 3 hrs. education and Psych. 5 (3) 11 daily Van Houten

232. THE HIGH SCHOOL CURRICULUM. The high school program of studies, and 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) 10 M T Th F Van Houten

235. COMMERCIAL CURRICULUM CONSTRUCTION. (Same as Sec. St. 235) A course involving the principles and factors necessary in the construction of a curriculum of commercial courses in the high schools of varied communities. Prereq., 20 hrs. commerce. (2) 7 M T Th F Cosgrove

special education

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. Each student may have one or more child cases for diagnosis and remedial practice. Prereq., 3 hrs. education and Psych. 5. (2) 9 M T Th F Esch

student teaching

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 diploma. 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.

Students with approved teaching experience who wish to take observation and participation and student teaching during the summer session are allowed to satisfy the requirement by taking 2 semester hours of observation and participation and 3 semester hours of student teaching.

A student without experience will not be able to complete the full requirement of 3 semester hours of observation and participation and 4 semester hours of student teaching during the summer session. It will be possible, however to complete 4 semester hours of advanced student teaching in elementary education.

Student teaching reservations should be made before the opening of the summer session. Reservation blanks are secured from A. B. Sias, College of Education, Ohio University.

PREREQUISITES FOR ALL TYPES OF STUDENT TEACHING

1. At least C (1.0) average in English Composition or C grade in the last semester of English Composition.
2. Demonstrated ability to write and speak English correctly and effectively.
3. In general, only students who meet the standard in the psychological test for entrance to teacher preparation shall be admitted to the courses in Observation and Participation and Student Teaching. This requirement is based on Sec. 7659 of the Ohio statutes and the regulations of the State Department of Education. Exceptions can be made to this standard only in case of a high scholastic record and unusually favorable personality traits.

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 THE 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 subject, in the subject or field in which the teaching is to be done. These requirements are found under Certification for Teaching. 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)

student teaching and observation and participation

171. OBSERVATION AND PARTICIPATION IN KINDERGARTEN-PRIMARY GRADES. Prereq., with 172. (2)

Arranged Sias and Supervising Critics

172. STUDENT TEACHING IN KINDERGARTEN-PRIMARY GRADES. Fee \$6. Prereq., with 171. (3) Arranged Sias and Supervising Critics

173. STUDENT TEACHING IN KINDERGARTEN-PRIMARY GRADES. Students specializing in kindergarten do this extra two semester hours of student teaching in the first and second grades; those specializing in primary grades, in the kindergarten. Fee \$4. Prereq., 172. (2)

Arranged Sias and Supervising Critics

174. ADVANCED STUDENT TEACHING IN KINDERGARTEN-PRIMARY GRADES. Prereq., 172, 173, and senior rank. Fee \$2 for each credit hour. (2-4)

Arranged Sias and Supervising Critics

175. OBSERVATION AND PARTICIPATION IN INTERMEDIATE GRADES. Prereq., with 176. (2) Arranged Sias and Supervising Critics

176. STUDENT TEACHING IN INTERMEDIATE GRADES. Fee \$6. Prereq., with 175. (3) Arranged Sias and Supervising Critics

*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 in the same general field.

177. ADVANCED STUDENT TEACHING IN INTERMEDIATE GRADES. Fee \$2 for each credit hour. Prereq., 176 and senior rank. (2-4)

Arranged Sias and Supervising Critics

178. STUDENT TEACHING IN SPECIAL EDUCATION. Fee \$6. Prereq., with 175. (3)

Arranged Sias

180. OBSERVATION AND PARTICIPATION IN HIGH SCHOOL, ACADEMIC SUBJECTS. Prereq., junior or senior rank. (2)

Arranged Sias

181. STUDENT TEACHING IN HIGH SCHOOL, ACADEMIC SUBJECTS. Fee \$6. Prereq., 180 or with 180, and senior rank. (3)

Arranged Sias

182. OBSERVATION AND PARTICIPATION IN SPECIAL SUBJECTS. Prereq., junior or senior rank. (2)

Arranged Sias and Departmental Supervisors

Majors in art and music observe largely in the elementary schools.

Majors in commerce and industrial arts observe in the junior and senior high schools.

Majors in home economics take the course in conjunction with Ed. 183.

Majors in physical welfare divide the observing time equally between the elementary grades and the high school.

183. STUDENT TEACHING IN SPECIAL SUBJECTS. These subjects are art, commerce, home economics, industrial arts, music, and physical welfare. Fee \$2 for each credit hour. Prereq., 182 or with 182, and senior rank. (2-4)

Arranged Sias and Departmental Supervisors

teaching techniques

BOTANY

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. Prereq., 1 yr. of science. (2)

9 M T Th F 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 hrs. arranged Morton

COMMERCE

161t. TEACHING OF TYPEWRITING. (Same as Sec. St. 161t) Prereq., Sec. St. 15s or 16. (2)

10 M T Th F 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) 11 M T Th F 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) 10 M T Th F 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 extracurricular activities such as debating, parliamentary procedure, panel discussions, and assembly programs. Prereq., Dram. A. 3, 15, 25, 102, or permission. (2) 9 M T Th F 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) 11 M T Th F Esch

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) 7 M T Th F Esch

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) 10 daily Howard

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) 11 M T Th F Allard

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) 11 M T Th F Lash

GEOGRAPHY

169g. TEACHING OF GEOGRAPHY IN THE UPPER GRADES AND HIGH SCHOOL. (Same as Geog. 169g) The course deals with the professionalized subject matter of geography in the upper grades and high school. (3) 8 daily Cooper

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) 10 M T Th F E. B. Smith

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) 7 M T Th F and 2 hrs. arranged

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. Not offered Summer, 1941. Prereq., 6 hrs. industrial arts and permission. (3) 9 daily Wilber

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) 9 M T Th F Lasher

LATIN

165r. TEACHING OF LATIN. (Same as Lat. 165r) A comprehensive study of the aims and methods of teaching Latin, with some attention also to the comparative merit of textbooks, and important reference materials. Prereq., Latin 103 or permission. (2) Arranged White

MUSIC

166d. TEACHING OF DANCES AND GAMES.* (Same as Mus. 166d)
Dances and games for grades 1 to 8 and methods of presentation. (1)
8 M W Blayney

166f. TEACHING OF MUSIC IN THE FIRST SIX GRADES. (Same as
Mus. 166f) (3)
9 daily Blayney

166g. TEACHING OF MUSIC IN INTERMEDIATE GRADES. (Same as
Mus. 166g) Prereq., Mus. 2. Fee \$1. (1-2)
Mus. 166g) Prereq., Mus. 2. Fee \$1. (1-2) 10 M T Th F Blayney

PAINTING AND ALLIED ARTS

60c. TEACHING OF DESIGN FOR EARLY CHILDHOOD. (Same as
P.A.A. 60c) Prereq., P.A.A. 3. (1) 8 T Th, 2 hrs. arranged Seabaugh

60g. TEACHING OF DESIGN FOR INTERMEDIATE AND HIGHER
GRADES. (Same as P.A.A. 60g) Prereq., P.A.A. 3. (1)
11 T Th, 2 hrs. arranged Seabaugh

PHYSICAL WELFARE

167b. TEACHING OF COACHING—WOMEN. (Same as P.W. 167b)
Theory and practice of coaching volleyball, soccer, baseball, track and field
activities. (2) 10 M T Th F LaTourrette

167d. COACHING OF BASEBALL. (Same as P.W. 167d) Fundamentals
of batting, pitching, fielding; baseball strategy; discussion of playing
technique of various positions; general discussion of baseball problems. (1)
11 W S Peden

167e. COACHING OF BASKETBALL. (Same as P.W. 167e.) The coach-
ing and training of basketball teams, beginning with fundamentals, passing,
dribbling, pivoting, shooting, and team play; various methods of offense
and defense and the selection of men. (2)

First four weeks 1, 2, 3, 4 T Th Trautwein

167f. COACHING OF FOOTBALL. (Same as P.W. 167f) Fundamentals
of football; details of each position on the team; principles of offense and
defense; football strategy; a comparison of various systems of football.
Prereq., junior rank. (2)

First four weeks 1, 2 M W F; 3 M W Peden, Trautwein

167k. TEACHING OF PHYSICAL WELFARE IN JUNIOR AND SENIOR
HIGH SCHOOLS—WOMEN. (Same as P. W. 167k) (2)

10 M T Th F Visiting Lecturer

*This course may be substituted by school music majors for one hour of required
physical welfare.

167p. TEACHING OF PHYSICAL WELFARE. (Same as P. W. 167p)
Physical education for elementary and secondary schools. Not required of
majors. (1) 10 W S Nessley

PHYSICS

168p. TEACHING OF PHYSICS. (Same as Phys. 168p) Objectives,
selection of subject matter and laboratory work, and order and method of
treatment. Prereq., one course in physics. (2) 10 M T Th F Edwards

ELECTRICAL ENGINEERING

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 meas-
urement 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. Prereq., Math. 6. Fee \$3. (3)

9 M T W F, 4 hrs. lab. arranged Young

103. PRACTICAL ELECTRICITY. Elementary principles of electricity,
Practical working principles of batteries, generators, motors, heaters, meters,
fuses, magnets, transformers, radios, and telephones. Safety rules and
regulations. The laboratory gives practice in wiring, soldering, and house-
hold appliance repairing. Fee \$2. (2)

10 M Th, 4 hrs. lab. arranged Young

ENGLISH

3. ENGLISH COMPOSITION. A course in the fundamentals of composi-
tion, 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 take Eng. 4. (3) 11 daily Kendall

4. ENGLISH COMPOSITION. Emphasis is placed on the study of models
of argumentation, description, and narration, and special attention is given
to oral English. Prereq., 3. (3) 11 daily Lasher

101. 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.
Prereq., 2 or 4. (3) 10 daily Lash

102. SOPHOMORE ENGLISH LITERATURE. This course begins with
the middle of the eighteenth century and continues the study to the pres-
ent. Prereq., 2 or 4. (3) 9 daily Lash
10 daily Heidler

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)
7 daily Kirchner
8 daily Kendall
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)
8 daily Kirchner
9 daily Kendall
- 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)
11 M T Th F Lash
175. CREATIVE WRITING. The work is adapted to the individual and instruction is largely by conference. Prereq., 2 or 4 and permission. (3)
Arranged Mackinnon
201. SHAKESPEARE. A study of the comedies. Prereq., 12 hrs. (3)
9 daily Caskey
213. ENGLISH PROSE FICTION. A study of the development of the English novel through different periods. Prereq., 12 hrs. (3)
10 daily 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)
8 daily Heidler
215. EIGHTEENTH CENTURY LITERATURE. A presentation of the prose and poetry of the age of Pope. Prereq., 12 hrs. (2) 10 M T Th F Caskey
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)
9 daily Kirchner
250. BOOKS OF THE SEASON. An extensive reading course in the best books of the season. Prereq., 12 hrs. (2) 8 M T Th F Mackinnon
273. CHAUCER. A careful study of the life and poetry of Chaucer by means of lectures, translations, and seminar reports. Prereq., 12 hrs. (3)
11 daily Heidler
277. THESIS WRITING. A course for graduate students in all depart-

- ments with special attention to the form and organization of research papers in the field of interest. Prereq., 12 hrs. (1) 8 T Th Caskey
391. SEMINAR IN ENGLISH. An introduction to literary research. Students are given an introduction to bibliography and methods of research in literary history. Minor problems are assigned. Prereq., 18 hrs. and permission. (2) 7 M T Th F Caskey
395. THESIS. Prereq., permission. (1-8) Arranged The staff

GEOGRAPHY AND GEOLOGY

geography

5. INDUSTRIAL AND COMMERCIAL GEOGRAPHY. A study of the world's major products and their distribution and consumption. Not open to students who have had Ec. 15. (3) 11 daily Potter
102. GEOGRAPHY OF NORTH AMERICA. The course develops in detail the geography of the natural resources of the continent and the geographic influences which affect them. (3) 10 daily 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) 10 M T Th F Cooper
132. CONSERVATION OF NATURAL RESOURCES. A study of the vital problems of the conservation of soils, minerals, forests, wild life, and inland waters. Field trips. (3) 7 daily Dow
145. GEOGRAPHIC INFLUENCES IN AMERICAN HISTORY. A course developed to show the importance of geographic factors in the growth of our nation. (3) 9 daily 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. Not open to students who have had Geog. 4. (3) 7 daily Cooper
- 169g. TEACHING OF GEOGRAPHY IN THE UPPER GRADES AND HIGH SCHOOL. (Same as Ed. 169g) The course deals with the professionalized subject matter of geography in the upper grades and high school. (3) 8 daily Cooper
170. GEOGRAPHY OF OUR NATIONAL PARKS. An appreciative study of the outstanding scenic and scientific areas of the United States based on their geographic concepts and interrelationships. (2) 10 M T Th F Potter
381. RESEARCH IN GEOGRAPHY. Prereq., 15 hrs. (1-2) Arranged The staff

geology

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. 4 lec., 4 lab., and four field trips. Prereq., 2 or 125. Fee \$3. (3)
9 daily, 2 hrs. arranged Potter

GERMAN

1s-2s. BEGINNING GERMAN. Drill in pronunciation and grammar, simple reading, and some practice in conversation. Students who have had Ger. 1s or 1 yr. in high school should register for Ger. 2s and enter the class after the first four weeks. (6)

Ger. 1s (3) First four weeks. 8, 9 daily Hess
Ger. 2s (3) Second four weeks. 8, 9 daily Hess

100. INTERMEDIATE GERMAN. Grammar review and systematic training in pronunciation, reading, and translation. Some scientific German will be read on request. The course fits the needs of those desiring either semester of second year German, and it may be taken either before or after Ger. 101 without duplication. Prereq., 2, or 2 yrs. high school German. (3)
11 daily Hess

GOVERNMENT

1. AMERICAN GOVERNMENT. The national government of the United States. Origin of the federal government, the Constitution and its makers, the national party system, powers and duties of the departments, government of the dependencies, independent and emergency services. (3)
8 daily Morrison

2. AMERICAN GOVERNMENT. The state and local governments. The first state governments, the constitutional position of the states, the organization and administration of state and local governments, interstate relations, federal aid to states, state finance, the relations between the citizens and the state and local governments. (3) 7 daily E. B. Smith

102. COMPARATIVE GOVERNMENT. A comparison of the American and European systems of government, including organization, procedure, popular representation, and the effect upon social and economic conditions. (3)
9 daily E. B. Smith

216. INTERNATIONAL RELATIONS. The foundations of international relations, including imperialism, and racial, cultural, and economic factors; the practices of diplomacy of the United States; the trend of international

organization; foreign policies of the great powers and the course of events culminating in the European war of 1939-1940. Prereq., 6 hrs. (3)

11 daily Morrison

301. PROBLEMS IN GOVERNMENT. Prereq., 15 hrs. government or history. (1-3) Arranged The staff

395. THESIS. Prereq., permission. (1-8) Arranged The staff

HISTORY

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 economic, social, intellectual, cultural, and political phases. (3) Hist. 1 8 daily Farmer
Hist. 2 9 daily W. J. Smith

110. HISTORY OF THE UNITED STATES TO 1861. (3) 9 daily Field

111. HISTORY OF THE UNITED STATES SINCE 1861. (3) 10 daily Farmer

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) 9 daily Morrison

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) 10 M T Th F E. B. Smith

222. EUROPE SINCE 1918. Prereq., 6 hrs. (2) 7 M T Th F W. J. Smith

242. THE BRITISH EMPIRE. 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) 10 daily 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) 11 M T Th F Richardson

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) 7 daily Farmer

270. THE FAR EAST. A study of the history of China and Japan and their relations with other countries. Prereq., 6 hrs. (3) 8 daily W. J. 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) Arranged Richardson

391. SEMINAR IN HISTORY. Reports based upon original research with group discussion and criticism. Prereq., 15 hrs. and permission. (1-3) Arranged The staff

395. THESIS. Prereq., permission. (1-8) Arranged The staff

HOME ECONOMICS

1. CLOTHING SELECTION AND CONSTRUCTION. A study of essential factors entering into a wise choice of clothing for the family. Principles of construction practiced in the making of simple garments of cotton and of wool. Not offered Summer, 1941. Fee \$3. (3) 8 daily, 7 M T Th F Morse

21. FOODS AND NUTRITION. Offered Summer, 1941

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. Not offered Summer, 1941. (3) 8 daily, 7 W S Lagerstrom

110. TEXTILES. A study of textiles as to fiber, manufacture, use, desirability, and care. Hand loom weaving problems. Fee \$3. (3) 9 daily, 2 hrs. arranged Morse

168h. TEACHING OF HOME ECONOMICS. (Same as Ed. 168h) Home living and homemaking organization and procedure in secondary schools. Basic principles of curriculum construction applied to homemaking organization. Consideration of objectives and needs for various groups with methods of instruction. Home projects, field trips, and observations of various classes including adult education groups. Prereq., 12 hrs. (3) 7 M T Th F, 2 hrs. arranged

200. PROBLEMS IN HOME ECONOMICS. Students plan and complete a problem in one of the specialized fields of home economics. Prereq., 6 hrs. and junior rank. (1-4) Arranged The staff

216. CLOTHING DESIGN AND CONSTRUCTION. Two dresses are designed, draped, and constructed. One tailoring problem is given. Prereq., 1 or 4, and 110. Fee \$3. (3) 10, 11 daily Morse
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. Prereq., 21 or 22, and 105. (3) 11 T Th; 4, 5 M T W Th Steininger
228. RECENT DEVELOPMENTS IN FOOD AND NUTRITION. Reports and discussions of recent literature. Course designed to strengthen and bring up to date the student's subject matter background in the field. Prereq., 225. (3) 10 W S, 11 M W F S Steininger
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., for undergraduate credit, 21 or 22 and 105, or 6 hrs. sociology; for graduate credit, 21 or 22, and 105. (2) 10 M T Th F Jacobson
253. HOME MANAGEMENT LABORATORY. Residence in the home management house provides managerial experience in the use of time, energy, and money in the modern household. Prereq., 21 or 22, 105, and permission. (2) Arranged Lagerstrom
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) 8 daily Jacobson
272. CHILD DEVELOPMENT. This course deals with the child's mental health, social and emotional development, and with parental techniques for the guidance of young children. Four hours nursery school observation. Prereq., 21 or 22, 1 or 110; or 6 hrs. psychology. (2) 7 W S, 4 hrs. arranged Snyder
273. FAMILY RELATIONSHIPS. A study of the functioning of the successful family and the factors that affect its establishment and maintenance. Prereq., 272, 3 hrs. sociology, and 3 hrs. psychology. (3) 9 daily Jacobson
351. SPECIAL PROBLEMS IN HOME ECONOMICS. Students select, plan, execute, and test the results of individual problems of research. Prereq., 18 hrs. (1-8) Arranged The staff
395. THESIS. Prereq., permission. (1-8) Arranged The staff

INDUSTRIAL ARTS

1. **ELEMENTARY WOODWORKING.** Emphasis is placed on the construction of a small piece of furniture by the use of hand tools in Ind. A. 1 and by the use of power machinery in Ind. A. 2. Information concerning the several kinds of wood, joints, glues, and furniture finishes make up some of the topics for discussion. Fee \$3. (3) 10 daily, 11 M T Th F Bowers
2. **ELEMENTARY WOODWORKING.** For description see Ind. A. 1. Prereq., 1. Fee \$3. (3) 10 daily, 11 M T Th F Bowers
7. **SHEET METAL.** The laboratory work consists of cutting, forming, seaming, soldering, riveting, and decorating of sheet metals. The lecture discussions deal with mining and with the methods of manufacturing sheet metals, solders, fluxes, and rivets. Not offered Summer, 1941. Fee \$3. (3) 9, 10 M T W Th F Stephan
8. **GENERAL SHOP.** Experience and information in drawing, electricity, woodworking, and craftwork. The laboratory is organized and conducted like a typical junior high school shop. Fee \$3. (3) 8 daily, 7 M T Th F Stephan
9. **CRAFT AND HOBBY WORK.** Work in wood, iron, brass, copper, leather, reed, plastics, fibers, and other materials is offered. Fee \$2. (2) 10, 11 M T Th F Wilber
105. **MATERIALS AND FINISHES.** A study is made of the different materials and finishes that are generally used in the industrial arts laboratories; their sources, manufacture, and application. Not offered Summer, 1941. (3) 9 daily Bowers
109. **CABINET MAKING.** Furniture is designed, constructed, and finished by approved methods. Prereq., 2. Fee \$3. (3) 7, 8 daily Bowers
110. **CABINET MAKING.** For description see Ind. A. 109. Prereq., 109. Fee \$3. (3) 7, 8 daily Bowers
116. **CONSTRUCTIVE DESIGN.** Practice in free-hand sketching is given. Originality in the designing of suitable school shop problems is stressed. A study is made of the outstanding periods and master designers of furniture. Not offered in Summer of 1941. Prereq., C. E. 2. (2) 10 daily Paige
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. Prereq., elementary teaching majors only. Fee \$1. (1) 9 M T Th F Paige

127. SHOP PRACTICE. Practice in giving demonstrations, in handling supplies and materials, and in designing projects for use in the shop courses. Prereq., permission. (2-3) Arranged Bowers
141. PRINTING. Consists of learning the case, composition of straight matter, pulling and correcting proofs, imposition, distribution, and platen press work. 2 lec. and 8 lab. Fee \$3. (3) 7, 8 daily Wilber
142. PRINTING. Deals with papers and paper making, care of stock, designing and setting display work, and the making of linoleum-block cuts. The making of stereotype mats and castings is also included. 2 lec. and 8 lab. Fee \$3. (3) 7, 8 daily Wilber
147. ADVANCED PRINTING. Deals with the problems that are encountered in the commercial printing shop. Laboratory periods are spent in work on the platen press, the cylinder press, the off-set press, the mimeograph, and the silk screen bench. Prereq., 142. Fee \$3. (3) 7, 8 daily Wilber
- 160m. TEACHING OF INDUSTRIAL ARTS. (Same as Ed. 160m) The 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. Not offered in Summer of 1941. Prereq., 6 hrs. and permission. (3) 9 daily Wilber
212. SCHOOL SHOP EQUIPMENT AND ORGANIZATION. A study of the selection of tools and equipment for several school shop laboratories; the arrangement of the machines and tools in the laboratory, and the selection and handling of supplies. Not offered in Summer of 1941. Prereq., 1, 7, and 141. (3) 11 daily Stephan
228. SPECIAL PROBLEMS IN GENERAL SHOP. A theory course dealing with the organization, equipment, and management of the general shop in the small high school. At least five information sheets and five procedure sheets are developed by each student. Not offered in Summer of 1941. Prereq., 12 hrs. (3) 8 daily Paige
350. ADVANCED WOOD, METAL OR PRINTING. Advanced laboratory work in wood, metal, or printing, and industrial practice in the field selected is studied. A term paper is required of each student. Prereq., 8 hrs. in one field. (3) Arranged The staff
381. RESEARCH IN INDUSTRIAL ARTS. A study of the techniques of research and of the reporting of the results of research. Prereq., 15 hrs. (3-6) 7 daily Paige

395. THESIS. Prereq., permission. (1-8) Arranged Paige, Stephan

JOURNALISM

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 or permission. (3) 11 daily Kelly

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 publication are discussed. Not open to journalism majors and minors. Prereq., Eng. 2 or 4. (2) 8 M T Th F Lasher

111. 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. Prereq., 107 and permission. (2 or 3) Arranged Smiley

112. REPORTING PRACTICE. A student is permitted, when possible, to specialize in the particular field of reporting he desires. Prereq., 111. (2 or 3) Arranged Smiley

113. REPORTING PRACTICE. Not open to students who have had 6 hrs. in Jour. 111-112. Prereq., 112. (2) Arranged Smiley

116. SPORTS WRITING AND EDITING. The course deals with the technique of gathering, writing, and editing news and comments concerning all kinds of 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) 10 M T Th F Kelly

121. EDITING PRACTICE. Students are assigned to copyreading on The Athens Messenger. Prereq., 117 and permission. (2-4) Arranged Harris

122. EDITING PRACTICE. For description see Jour. 121. Prereq., 121. (2-4) Arranged Harris

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) 9 M T Th F Lasher

201. **ADVANCED REPORTING.** Experience at The Athens Messenger in some specialized field in which the student is doing research. Prereq., 112 and permission. (2) Arranged Smiley

222. **FEATURE AND MAGAZINE WRITING.** A study of newspaper, magazine, and syndicate feature stories and articles is followed by practice in writing different types. Problems considered include: discovering desirable material, securing suitable illustrations, bringing out the dominant interest, preparing and selling manuscripts. Prereq., 107 or 12 hrs. English. (2-3) 10 M T Th F Lasher

MATHEMATICS AND ASTRONOMY

4. **SOLID GEOMETRY.** This course is devoted to a study of lines and planes, dihedral angles, polyhedrons, cylinders and cones, the sphere, the area and volume of a sphere, and the regular solids. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry. (3) 11 daily Osgood

5. **FRESHMAN MATHEMATICS.** The number system, a review of high school algebra, the rational operations, equations, exponents, radicals, logarithms, the trigonometric functions, right triangles, graphs, and functions of multiple angles. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry. (5) 7 daily, 8 M T Th F Reed

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 mathematics and physics needed to understand the subject are developed. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry. (3) 10 daily Marquis

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) 11 daily Marquis

105. **COLLEGE GEOMETRY.** Problems of construction, loci, indirect methods, similar and homothetic figures, the triangle, medians, bisectors, altitudes, and transversals. Prereq., 6. (3) 9 daily Marquis

395. **THESIS.** Prereq., permission. (1-8) Arranged The staff

MUSIC

applied music

PIANO. Private instruction in pianoforte according to the individual

ability of the student. One or two lessons a week. Fee for one lesson a week \$7.50; for two lessons \$12. Practice room fee \$2. (1/2-1)

Arranged Longstreet, Kresge

VIOLIN. Private instruction in violin according to the individual ability of the student. One or two lessons a week. Fee for one lesson a week \$7.50; for two lessons \$12. Practice room fee \$2. (1/2-1) Arranged Ingerham

VOICE. Private instruction in voice culture based on the individual training and ability of the student. One or two lessons a week. Fee for one lesson a week \$7.50; for two lessons \$12. Practice room fee \$2. (1/2-1)

Arranged Robinson, Roach

WOOD AND BRASS INSTRUMENTS. Private instruction in band instruments according to the individual ability of the student. Fee for one lesson a week \$7.50; for two lessons \$12. Practice room fee \$2. (1/2-1)

Arranged Janssen

history and theory

12. **MUSIC HISTORY.** 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)

10 M T Th F Roach

106. **HARMONY.** Harmonizing melodies and figured basses; seventh chords and their inversions; chord of the ninth on the dominant; modulation to related keys. Prereq., 105. Fee for private instruction \$16. No fee for class work. (2)

11 M T Th F Kresge

114. **ANALYSIS AND FORM.** Detailed analysis of the structure of musical compositions. Monophonic and polyphonic analysis. Material used: the hymnal, Songs Without Words, etc. Prereq., 113. (2)

8 M T Th F 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 to the tonal and rhythmic elements of music with a basis for music understanding. (0)

8 daily Maaser

2. **MUSIC FUNDAMENTALS.** A course involving theory, ear training, tone production, and sight singing of unison and part songs. (2)

8 daily Morley

3. **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)

11 daily, 1 M W Maaser

125. MUSIC APPRECIATION FOR GRADE TEACHERS. Experience in hearing and identifying good music. Appreciation material and effective methods for its presentation. (1)

7 M T Th F Maaser

9 M T Th F Maaser

166d. TEACHING OF DANCES AND GAMES.* (Same as Ed. 166d) Dances and games for grades 1 to 8 and methods of presentation. (1)

8 M W Blayney

166f. TEACHING OF MUSIC IN FIRST SIX GRADES. (Same as Ed. 166f) (3)

9 daily Blayney

166g. TEACHING OF MUSIC IN INTERMEDIATE GRADES. (Same as Ed. 166g) Prereq., 2. Fee \$1. (1-2)

10 M T Th F Blayney

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)

8 T Th Blayney

music activities

SUMMER SESSION BAND. Open to anyone who can meet the technical requirements of his chosen instrument. (1)

2, 3 M W Janssen

SUMMER SESSION CHORUS. Open to anyone who is qualified vocally to participate. Program material includes chorales, madrigals, and other choral forms. (1)

7, 8 p.m. T Th Robinson

PAINTING AND ALLIED ARTS

design

3. FUNDAMENTALS OF DESIGN. Elementary principles using problems in color, lettering, and composition. Planned for students who intend to major in elementary education. (2)

7 M T Th F, 4 hrs. arranged Seabaugh

60c. TEACHING OF DESIGN FOR EARLY CHILDHOOD. (Same as Ed. 60c) Prereq., 3. (1)

8 T Th, 2 hrs. arranged Seabaugh

60g. TEACHING OF DESIGN FOR INTERMEDIATE AND HIGHER GRADES. (Same as Ed. 60g) Prereq., 3. (1)

11 T Th, 2 hrs. arranged Seabaugh

*This course may be substituted by school music majors for one hour of required physical welfare.

103. PRACTICAL DESIGN. Emphasis on application of principles to marionettes, toys, weaving, cardboard construction, clay modeling. Fee \$2. (2) 10, 11 M T Th F Bedford
113. LETTERING. Study of form, spacing, alphabet styles, and letter arrangement. Prereq., 11. (3) 7, 8 M T W Th F Bedford
152. BOOKBINDING. Problems in cardboard construction and book-binding. Prereq., 3, 12, or 101. Fee \$2. (2) 9, 10 M T Th F Bedford

history

21. HISTORY OF THE SPACE ARTS. The principal periods of history are made familiar through a study of the most significant surviving forms. (3) 9, 10 M W F Mitchell
157. APPRECIATION OF THE SPACE ARTS. Appreciative study of line, mass, color, and form through design, architecture, sculpture, and painting. (1) 10, 11 W Bedford

representation

45. METHODS IN REPRESENTATION. A study of proportion, structure, depth, and action. (2) 8 T Th, 6 hrs. arranged Mitchell
205. PAINTING, Practical application of theories and methods of representation in color mediums. 18 lab. Prereq., 12 hours including 130. (3) Arranged Mitchell
257. LANDSCAPE PAINTING. 18 lab. Prereq., 20 hours including 206. (3) Arranged Mitchell
331. PICTORIAL COMPOSITION. 18 lab. Prereq., 206 and permission. (3) Arranged Mitchell
395. THESIS. Prereq., permission. (1-8) Arranged The staff

PHILOSOPHY

101. GENERAL ETHICS. A survey of the biological and social influences that affect behavior, and of the historical ethical theories. Introduction to an ethical philosophy of life. Class discussion of numerous contemporary personal and social problems. (3) 7 daily Houf
103. INTRODUCTION TO PHILOSOPHY. A study of the underlying principles of knowledge and experience as found in the sciences, morals, religion, and art. The course aims to put the student in possession of the fundamental ideas necessary for forming a satisfactory philosophy of life. (3) 8 daily Houf

107. THE WORLD'S GREAT RELIGIONS. Considers what religion is and does, and studies the eleven religions now living. Surveys their origins, history, location, sacred books, characteristic beliefs and practices. Concludes by comparing other religions with Christianity and estimating their worth for today. (2) 11 M T Th F Gamertsfelder

395. THESIS. Prereq., permission. (1-8) Arranged The staff

PHYSICAL WELFARE

men

1. 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. Fee \$1. (1) 9 daily House

6. PHYSICAL ACTIVITIES. Practical tests in skill and physical efficiency. Required of all majors and minors as a basis for the required courses in physical activities. Fee \$1. (1) 8 daily Nessler

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) 11 M T Th F Herbert

167d. COACHING OF BASEBALL. (Same as Ed. 167d) Fundamentals of batting, pitching, fielding; baseball strategy; discussion of playing technique of various positions; general discussion of baseball problems. (1) 11 W S Peden

167e. COACHING OF BASKETBALL. (Same as Ed. 167e) The coaching and training of basketball teams, beginning with fundamentals, passing, dribbling, pivoting, shooting, and team play; various methods of offense and defense and the selection of men. (2)

First four weeks. 1, 2, 3, 4 T Th Trautwein

167f. COACHING OF FOOTBALL. (Same as Ed. 167f) Fundamentals of football; details of each position on the team; principles of offense and defense; football strategy; a comparison of various systems of football. Prereq., junior rank. (2)

First four weeks. 1, 2 M W F; 3 M W Peden, Trautwein

men and women

22. PERSONAL AND PUBLIC HEALTH. Provides a knowledge of the

hygienic practices, and an appreciation of the means whereby the health of the individual and of the group may be maintained. (3)

10 daily Kellner

35. SOCIAL AND COUNTRY DANCING. A recreational course for students who wish to learn how to dance. Fee \$1. (1) 3 daily La Tourrette

114. CAMP CRAFT. This includes outdoor cooking and practice in living comfortably in the out-of-doors. One overnight hike is required. Fee \$1. (1)

2 daily La Tourrette

153. NATURE AND FUNCTION OF PLAY. Play programs for schools, recreation centers, playgrounds, and scouting. Prereq., 6 hrs. (2)

8 M T Th F Bird

167p. TEACHING OF PHYSICAL WELFARE. (Same as Ed. 167p) Physical Education for elementary and secondary schools. Not required of majors. (1)

10 W S Nessley

204. PRINCIPLES OF PHYSICAL WELFARE. Physical education in our modern program of education, its relationship to recreational and health education, and its contribution to living. Curriculum construction in the elementary and secondary schools. Prereq., 16 hrs. (2)

10 M T Th F Nessley

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)

8 M T Th F Visiting Lecturer

206. ORGANIZATION AND ADMINISTRATION OF PHYSICAL WELFARE. Physical and health education in elementary and secondary schools, normal schools, and colleges. Athletic management, intramural activities, interscholastic and intercollegiate athletics. Prereq., 16 hrs. (2)

7 M T Th F Bird

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. Fee \$1. (2)

11 M T Th F Nessley

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) Arranged 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)
7-10 p.m. T Th Bird

395. THESIS. Prereq., permission. (1-8) Arranged Nessley

women

1. SPORTS. Students may choose from hockey, soccer, basketball, badminton, tennis, archery, volleyball, baseball, track and field. Fee \$1. (1)
11 daily Visiting Lecturer

3. BEGINNING SWIMMING. Fee \$1. (1) 2 daily Kellner

4. INTERMEDIATE SWIMMING. Fee \$1. (1) 11 daily Kellner

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) 9 daily Visiting Lecturer

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) 7 M T Th F La Tourrette

167b. TEACHING OF COACHING. (Same as Ed. 167b) Theory and practice of coaching volleyball, soccer, baseball, track and field activities. (2) 10 M T Th F La Tourrette

167k. TEACHING OF PHYSICAL WELFARE IN JUNIOR AND SENIOR HIGH SCHOOLS. (Same as Ed. 167k) (2) 10 M T Th F Visiting Lecturer

PHYSICS

1. THE PHYSICAL WORLD. This course acquaints the student in an elementary and descriptive way with the principles underlying the physical world, and the relation of these principles to man's needs and interests. Fee \$3. (3) 7 daily, 2 hrs. lab. arranged Edwards

6. INTRODUCTION TO PHYSICS. Electricity, magnetism, and light. A course indicated for nontechnical and premedic students. Fee \$4. (4) 8 daily, 4 hrs. lab. arranged Edwards

168p. TEACHING OF PHYSICS. (Same as Ed. 168p) Objectives, selection of subject matter and laboratory work, and order and method of treatment. Prereq., one course in physics. (2) 10 M T Th F Edwards

219. ELECTRICITY AND MAGNETISM. An advanced course including

the calculation of magnetic and electric fields, and a study of transients.
Prereq., 113, 114, and Math. 118. (3) Arranged Edwards

226. ADVANCED PHYSICS LABORATORY. Fee, \$1 for each credit hour. Prereq., 113, 114, and Math. 118.

(b) Electricity and Magnetism (1-3)

(c) Advanced Optics (1-3)

(d) Electronic Physics (1-3)

(e) Sound (1-3)

Arranged Edwards

395. THESIS Prereq., permission. (1-6)

Arranged Edwards

PSYCHOLOGY

1. GENERAL PSYCHOLOGY. An elementary, scientific study of the most significant facts and principles of mental life. Fee \$1. (3)

9 daily Scott

3. CHILD PSYCHOLOGY. Topics considered: sensory life of a child, emotions, curiosity, imagination, memory, imitation, language, art, moral and religious development. Prereq., 1. (3)

7 daily Porter

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. Prereq., 1. Fee \$1. (3)

9 daily Porter

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)

9 M T Th F Paulsen

203. MENTAL MEASUREMENTS. The administration, methods, and results of individual and group intelligence tests. Prereq., 6 hrs. Fee \$1. (3)

8 M T Th F, 2 hrs. lab. arranged Paulsen

10 M T Th F, 2 hrs. lab. arranged Paulsen

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., 6 hrs. (3)

10 daily Porter

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)

8 daily Scott

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) 11 daily Scott

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)

Arranged The staff

395. THESIS. Prereq., permission. (1-8)

Arranged The staff

ROMANCE LANGUAGES

french

1s-2s. BEGINNING FRENCH. Drill in grammar and composition, with some simple reading. Students who have had Fr. 1, Fr. 1s, or 1 yr. high school French should register for Fr. 2s. (6)

Fr. 1s (3) First four weeks 7, 8, daily Noss

Fr. 2s (3) Second four weeks 7, 8 daily Noss.

100. INTERMEDIATE FRENCH. Review of grammar, composition, conversation, and varied readings. The course fits the needs of those desiring either semester of second year French, and it may be taken either before or after Fr. 101 without duplication. Prereq., 2, or 2 yrs. high school French. (1-3) 11 daily Noss

212. SEVENTEENTH CENTURY DRAMA. The tragedies of Corneille and Racine. Prereq., 102. (1-2) 10 arranged Noss

271. ADVANCED FRENCH. The choice of subject will be determined by the class. Prereq., 9 hrs. beyond 102. (1-2) Arranged Noss

395. THESIS. Prereq., permission. (1-8)

Arranged Noss

spanish

1s-2s. BEGINNING SPANISH. Drill in grammar and composition, with some simple reading. Students who have had Sp. 1, Sp. 1s, or 1 yr. high school Spanish should register for Sp. 2s. (6)

Sp. 1s (3) First four weeks 8, 9 daily Whitehouse

Sp. 2s (3) Second four weeks 8, 9 daily Whitehouse

100. INTERMEDIATE SPANISH. Review of grammar with composition and varied readings. The course fits the needs of those desiring either semester of second year Spanish, and it may be taken either before or after Sp. 101 without duplication. Prereq., 2, or 2 yrs. high school Spanish. (1-3) 10 daily Whitehouse

203. READINGS FROM SPANISH LITERATURE. Selections vary with the needs of the individual students. Prereq., 102. (1-2)
 11 arranged Whitehouse
271. ADVANCED SPANISH. Any of the eight offerings under this heading in the university catalog will be given to meet the needs of the individual students. Prereq., 20 hrs. (1-2) 11 arranged Whitehouse
395. THESIS. Prereq., permission. (1-8) Arranged Whitehouse

SOCIOLOGY

1. GENERAL SOCIOLOGY. An elementary study of fundamental characteristics of culture and society; an analysis of social groups, social institutions, and social processes; the nature of social change; and sociology as a social science. (3) 9 daily MacTavish
101. PRINCIPLES OF SOCIOLOGY. A somewhat more intensive study than Soc. 1 of the basic facts and principles of human society, of factors and forces which condition social life, and of major concepts and techniques employed in sociological investigation and interpretation. Not open to students having had Soc. 1. (3) 8 daily Taylor
103. SOCIAL CHANGE AND SOCIAL PROBLEMS. A general survey of major social problems characteristic of a rapidly changing society with special emphasis on the role of natural resources, biological equipment, technology, economic organization, and certain social institutions; programs of social reorganization; the theory, methods, and tools of applied sociology. Prereq., 3 hrs. (3) 8 daily Shannon
105. RACE RELATIONS. A survey of the status and adjustment of minority racial groups in the United States, with special attention to the American Negro. Problems of race consciousness, race prejudice, and race conflicts. Regional variations in interracial conflicts and adjustments. Prereq., 3 hrs. (3) 11 daily Shannon
106. RURAL SOCIAL ORGANIZATION. The basic organizations in rural life including the Grange, Farm Bureau, Rural Extension Work, farmers' co-operatives, and governmental agencies; as well as the structure and function of private organizations which aim to improve rural life. Prereq., 3 hrs. (2) 10 M T Th F Taylor
208. MARRIAGE AND THE FAMILY. A study of the institutional and human nature aspects of modern marriage and the family. Attention is given to the formation of personality in the parental family, courtship and marriage relations, family and marital disorganization, and the impact of social change on the family. Prereq., 6 hrs. (3) 10 daily Shannon

221. CONTEMPORARY SOCIAL MOVEMENTS. The better known Utopian and socialistic philosophies. The two significant social experiments of the present time, communism and fascism. The more recent proposals for achieving a planned and controlled social order. Prereq., 6 hrs. (3)

9 daily Taylor

224. CHILD WELFARE. Two fundamental phases are considered and discussed: problems of children, and child welfare services from a private and public agency point of view. Prereq., 6 hrs. (3) 7 daily MacTavish

247a. VISITING TEACHER. (Same as Ed. 247a) A survey course in case work for teachers to consider the specific functions, relationships, and objectives of social case work in a school setting; the study of individual personalities of children and their behavior problems in relation to the school, home, and community; the demonstration of the effectiveness of early constructive work with individual maladjustments; supervised field work practice in visiting teacher work through the use of actual problem cases from the public schools. Prereq., 6 hrs., teaching experience, and permission. (3) 8 T W Th, field work arranged MacTavish

253. INSTITUTIONAL SOCIAL SERVICE. Internship in correctional institutions and institutions for the care of children. The course includes training in staff duties at the institution. Prereq., 12 hrs. and permission. (3) Arranged The staff

395. THESIS. Prereq., permission. (1-8) Arranged The staff

ZOOLOGY

3. 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. Fee \$3. (3) 7, 8 M T Th F Rowles

4. GENERAL ZOOLOGY. For description see Zool. 3. Prereq., Zool. 3 or concurrently with Zool. 3. (3) 10, 11 M T Th F Frey

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. Prereq., 4, or high school biology. Fee \$1. (1) Arranged

126. ELEMENTS OF PHYSIOLOGY. Digestion, metabolism, circulation, respiration, reproduction, internal secretion. Prereq., 4, or 3 and 6 hrs. home economics. A knowledge of organic chemistry is desirable. Fee \$4. (4) 10, 11 daily Rowles

128. HISTOLOGY. 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. Prereq., 112 or 115. Fee, lab. \$4, breakage \$5. (4) 8, 9 daily Elliott

202. 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. Prereq., 112. Fee, lab. \$4, breakage \$5. (4) 10, 11 daily Elliott

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 majors in bacteriology. Prereq., 4 and Chem. 115. Fee \$4. (4) 7, 8 daily Frey

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. Prereq., 228 or 233. Fee \$3. (3) Arranged Roach

243. BIOLOGICAL STUDIES. Semi-independent studies under the guidance of the instructor. Prereq., 10 hrs. and permission. Fee, \$1 for each credit hour. (2-3)

a. BACTERIOLOGY—studies in water, dairy, and pathogenic bacteriology, and serology. Arranged Frey

h. READINGS IN BIOLOGY—readings dealing with biological history, theory, and advances. Arranged

i. TECHNICIANS' METHODS—technic and theory of blood, urine, gastric analysis, fecal examination, and serological methods. Arranged Frey

j. VERTEBRATE ZOOLOGY—classification, economic control, embryology, gross and microscopic anatomy of vertebrates. Arranged Elliott

385. RESEARCH IN BIOLOGY. Research work in anatomy, bacteriology, ecology, entomology, invertebrate zoology, ornithology, and vertebrate zoology. This course fulfills the thesis requirements. Prereq., 20 hrs. and permission. Fee, \$1 for each credit hour. (2-8) Arranged Frey

POST SUMMER SESSION

The Post Summer Session is an integral part of the University year with requirements and standards of academic accomplishment exactly like those of the other sessions. The Session is organized to make it possible for advanced undergraduate and graduate students to study intensively during a three-week period. The purpose is to offer opportunity for flexibility in study procedure with a view to developing greater independence on the part of qualified students. Credit obtained is fully recognized, and may be applied toward the fulfillment of course requirements for the various degrees and diplomas which the University grants. Registration is limited without exception to three semester hours of credit. The oral and written examination requirements for the master's degree cannot be completed during this session.

In general, the continuance of each course announced in the succeeding pages is dependent upon the number of students enrolled. Courses in which the registration falls below the minimum number prescribed will be discontinued after the first meeting and the students notified of the action. The course 212. Field Geography, requires a minimum of twenty-five students in order to provide a group large enough to make an adequate transportation contract which is financially advantageous to the students participating. Students interested in this course may obtain further information and application forms by writing the Department of Geography and Geology.

All students will register for the Session on Monday morning, August 12, in the Office of the Registrar, Ewing Hall. Classes begin on Monday afternoon at one o'clock in all two and three semester credit hour courses and at three o'clock in all one semester credit hour courses. Thereafter the classes in each course will meet as indicated below and as announced in the schedule of recitations. The registration fee is \$5 for each semester credit hour. The laboratory fee is indicated in the description of each course where such is required. Late registration on Monday afternoon carries a penalty of \$1. No registration will be accepted after four o'clock on Monday, August 12.

BOTANY

102. GENERAL BOTANY. A course in systematic botany for advanced students beginning the subject. Not open to those who have credit in Bot. 2. Lecture and laboratory. Fee \$3. (3) 8, 9, 10 daily Vermillion

281. RESEARCH IN BOTANY. Prereq., 20 hrs. Fee \$1 for each credit hour. (1-3) Arranged Vermillion

COMMERCE

211. RECENT TRENDS IN MARKETING AND SELLING. Changes in marketing methods and institutions and in selling policies in the post-war period with especial reference to adjustments resulting from new tax and regulatory laws. Prereq., Mkt. 155 and Ec. 102. (3)

8, 9, 10 daily Paynter

281. RESEARCH IN MARKETING. Research methods, market data and methods of conducting market surveys. Prereq., 18 hrs. commerce including 5 hrs. marketing, and permission. (2-3)

Arranged Paynter

EDUCATION

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)

8, 9, 10 daily Visiting Lecturer

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)

8, 9, 10 daily Visiting Lecturer

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)

8, 9, 10 daily Visiting Lecturer

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. (2-3)

Arranged Visiting Lecturer

ENGLISH

101. SOPHOMORE ENGLISH LITERATURE. This 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. Prereq., 2 or 4. (3)

8, 9, 10 daily Davidson

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)

8, 9, 10 daily Peckham

GEOGRAPHY

212. FIELD GEOGRAPHY. Three days of lecture on the campus and fifteen days of field work by bus through the Province of Ontario, Upper Michigan, Wisconsin, Minnesota, Illinois, and Indiana. Interrelationships between man and his natural environment studied through actual field observation and contact make up the work of the trip. A written report based on the field study is required.

Meals are to be secured individually en route. Club rates for lodging are available at good hotels and tourist camps averaging less than \$1.50 per person per day. The estimated total cost per person above registration fees is \$100. The trip is contingent upon a registration of 25 students or more. Prereq., 6 hrs. (3) Potter

HISTORY

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) 8, 9, 10 daily Jones

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. (1-3) Arranged Jones

PAINTING AND ALLIED ARTS

206. PAINTING. Practical applications of theories and methods of representation in color mediums. 9 Lab. Prereq., 205. (3) Arranged

PHYSICAL WELFARE

121. PHYSICAL ACTIVITIES. Theory and practice in the following: touch football, soccer, speedball, basketball, handball, swimming, elementary tumbling, apparatus, and fencing. The last part of the course includes methods and practice in rhythmic activities. Prereq., 102 or 110. Fee \$1. (2) 7, 8, 9, 10 daily Rhoads

167p. TEACHING OF PHYSICAL WELFARE. (Same as Ed. 167p) Physical education for elementary and secondary schools. Not required of majors. (1) 11 daily Rhoads

PSYCHOLOGY

203. MENTAL MEASUREMENTS. The administration, methods, and results of individual and group intelligence tests.. Lecture and laboratory. Prereq., 6 hrs. Fee \$1. (3) 8, 9 daily; lab. arranged Anderson
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., 6 hrs. (3) 8, 9, 10 daily Gentry
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. (1-3) Arranged Anderson, Gentry

SOCIOLOGY

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) 8, 9, 10 daily Oberdorfer
381. RESEARCH PROBLEMS IN SOCIOLOGY. Prereq., 12 hrs. (2-3) Arranged Oberdorfer

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