

OHIO UNIVERSITY BULLETIN

Vol. XXX

January, 1933

No. 1

SUMMER SESSION ANNOUNCEMENT 1933

Regular Summer Session—June 12-August 4

Post Summer Session—August 7-August 25

ATHENS, OHIO

Published by the University and Issued Quarterly
Entered at the Post Office at Athens, Ohio, as Second Class Matter

BOARD OF TRUSTEES

	When Term Expires
Robert E. Hamblin, Toledo	Indefinite
Evan J. Jones, Athens	Indefinite
James P. Wood, Athens	Indefinite
Thomas R. Biddle, Athens	Indefinite
James E. Kinnison, Jackson	Indefinite
Fred W. Crow, Pomeroy	Indefinite
Eli R. Lash, Athens	Indefinite
E. C. Eikenberry, Camden	Indefinite
Charles D. Hopkins, Athens	Indefinite
Arthur C. Johnson, Columbus	Indefinite
Thomas J. Davis, Cincinnati	Indefinite
Samuel L. McCune, Cleveland	May 14, 1932
Charles E. Holzer, Gallipolis	May 14, 1933
Gordon K. Bush, Athens	May 14, 1934
David H. Thomas, Marietta	May 14, 1935
John Preston, Athens	May 14, 1936
Jacob G. Collicott, Columbus	May 14, 1937
Fred G. Leete, Ironton	May 14, 1938
President Elmer Burrirt Bryan	Ex-Officio
Governor George White	Ex-Officio

OFFICERS OF THE BOARD OF TRUSTEES

Elmer Burrirt Bryan	President
David H. Thomas	Vice-President
George C. Parks	Secretary, Treasurer, and Business Manager

COMMITTEES OF THE BOARD OF TRUSTEES

Auditing: Lash, Jones, Bush
Buildings and Grounds: Biddle, Collicott, Johnson
Finance: Hopkins, Davis, Biddle, Wood
Library: Wood, Jones, Holzer
Publicity: Johnson, McCune, Bush
Teachers and Salaries: Johnson, Eikenberry, Hamblin
University Conference: Thomas, Crow, McCune, Collicott

The President of the Board of Trustees is Chairman of all Committees.

OHIO UNIVERSITY BULLETIN

Vol. XXX

January, 1933

No. 1

SUMMER SESSION ANNOUNCEMENT 1933

Regular Summer Session—June 12-August 4

Post Summer Session—August 7-August 25

ATHENS, OHIO

Published by the University and Issued Quarterly
Entered at the Post Office at Athens, Ohio, as Second Class Matter

THE TWO SUMMER SESSIONS OF 1933

I. THE REGULAR SUMMER SESSION

Time

The regular half-semester summer session opens June 12th and closes August 4th.

Registration

Registration for the regular summer session takes place in the Men's Gymnasium on Monday, June 12. Every student must present for entrance to the gymnasium a "Permit to Register." This permit states the time of the day when each student is to register. It must be obtained at the Registrar's office. New students may get this permit in advance by mail or in the Fine Arts Building on registration day.

All students should have their Student Record Books with them for consultation with their advisers.

Student load

The regular student load will be eight or nine semester hours of credit.

Commencement

A regular commencement will be held on August 4th. Diplomas and degrees will be conferred at that time.

II. THE POST SUMMER SESSION

Time

The Post Summer Session opens August 7th and closes August 25th.

Registration

All who wish to register for this short session are asked to notify the Office of the Registrar not later than July 22nd. When filing such notice please state the title and course number of the course which you wish to take. Actual registration will be completed in the Office of the Registrar on Saturday morning, July 29th, by those who are in the regular summer session, and by all others on Saturday morning, August 5th.

Student load

The student load will be not more than three semester hours of credit.

Commencement

No commencement will be held at the close of this short session, but diplomas and degrees will be conferred on those who complete courses at this time.

THE UNIVERSITY CALENDAR 1933—1934

Summer Sessions, 1933

Regular Summer Session

June 12, Mon. Registration of students.
June 13, Tues. Classes begin, 7:00 A. M.
July 4, Tues. Independence Day: a holiday.
Aug. 4, Fri. August Commencement.

Post Summer Session

July 22, Sat. Notify Office of Registrar of intention to attend Post Summer Session.
July 29, Sat. Students in Regular Summer Session complete registration for Post Summer Session.
August 5, Sat. Final date for registration in Post Summer Session.
August 7, Mon. Classes begin.
August 25, Fri. Session closes.

First Semester, 1933

Sept. 18, Mon. Convocation for Freshmen and new students, 8:30 A. M., Memorial Auditorium.
Registration of Freshmen and new students, 9:30 A. M. to 5:00 P. M.
Sept. 19, Tues. Registration of Freshmen and new students continued; registration of former students beginning at 1:00 P. M.
Sept. 20, Wed. Registration of former students continued until noon.
Classes begin, 1:00 P. M. The Wednesday schedule will be followed, allowing thirty minutes for each class: 8 o'clock classes to meet at 1:00; 9 o'clock at 1:30; 10 o'clock at 2:00, etc.
Nov. 17, Fri. Mid-semester reports on delinquent students.
Nov. 29 to Dec. 4 Thanksgiving recess from Wednesday noon to Monday, 8:00 A. M.
Dec. 22, Fri. Holiday recess begins at noon.

1934

Jan. 8, Mon. Classes resumed, 8:00 A. M.
Feb. 2, Fri. First semester closes.

Second Semester, 1934

Feb. 5, Mon. Registration.
Feb. 6, Tues. Registration continued.
Feb. 7, Wed. Classes begin, 8:00 A. M.
Feb. 18, Sun. Founders' Day.
March 30 to April 3 Easter recess from Friday noon to Tuesday, 8:00 A. M.
April 6, Fri. Mid-semester reports on delinquent students.
May 16, Wed. Senior Day.
May 23, Wed. Award Day.
May 30, Wed. Memorial Day: a holiday.
June 2, Sat. Alumni Day.
June 3, Sun. Baccalaureate Service.
June 4, Mon. June Commencement.

ADMINISTRATIVE OFFICERS

ELMER BURRITT BRYAN, LL. D., L. H. D.	<i>President</i>
Ewing Hall	
EDWIN WATTS CHUBB, Litt. D., LL. D.	<i>Dean, College of Liberal Arts</i>
Cutler Hall	
THOMAS COOKE MCCrackEN, Ph. D.	<i>Dean, College of Education</i>
Cutler Hall	
IRMA ELIZABETH VOIGT, Ph. D.	<i>Dean of Women</i>
West Wing	
JOHN REED JOHNSTON, A. B.	<i>Dean of Men</i>
Cutler Hall	
IRENE LUCILE DEVLIN, A. B.	<i>Executive Secretary</i>
Ewing Hall	
LEWIS JAMES ADDICOTT, B. S., C. E.	<i>Supervising Architect</i>
Super Hall	

FINANCIAL STAFF

(Ewing Hall)

GEORGE CRAWFORD PARKS, Ph. B.	<i>Treasurer and Business Manager</i>
JOHN ALONZO PALMER	<i>Assistant Business Manager</i>
EMMA RAYBOULD BATTIN	<i>Cashier-Auditor</i>
MILDRED LEONA BARBER	<i>Stenographer</i>
MARY GERTRUDE PRITCHARD	<i>Stenographer</i>

LIBRARY STAFF

(Edwin Watts Chubb Library)

ANNE CLAIRE KEATING, A. B.	<i>Librarian</i>
DORA MOORE, Ph. B.	<i>Cataloguer</i>
AMY ALLEN, A. B., B. L. S.	<i>Reference Librarian</i>
CANDUS MACE MARTZOLFF, A. B.	<i>Assistant Reference Librarian</i>
ANNA ELISE WHITE	<i>General Assistant Librarian</i>
MILDRED CAROLYN CHUTTER, A. B., B. L. S.	<i>Assistant Cataloguer</i>
JANETTE WOOLSEY, M. S.	<i>Children's Librarian</i>
JUNE SOUTHWORTH, A. B., B. S.	<i>Assistant Cataloguer</i>

REGISTRAR'S OFFICE

(Ewing Hall)

FRANK BROWN DILLEY, A. M.	<i>Registrar and Chairman of Entrance Board</i>
MARY ANTORIETTO, A. B.	<i>Recorder</i>
HELEN CORNEIL ROUSH	<i>Assistant Registrar</i>
BERTHA VICKERS	<i>Clerk</i>
ALPHA BAIRD	<i>Clerk</i>
VELMA STANEART, A. B. in Commerce	<i>Stenographer</i>
MARY VICKERS ERSKINE, A. B.	<i>Assistant to the Registrar</i>
NELLIE BROOKS GRISWOLD	<i>Clerk</i>

BUREAU OF APPOINTMENTS

(Cutler Hall)

LILLIAN M. BARBOUR, A. B.	<i>Director</i>
KATHERINE ADELE VAN HAMM, B. S. S.	<i>Secretary</i>

SERVICE BUREAU

(East Wing)

ANNA LOIS SAUM, A. M. *Director*
MARGARET MAE CROY *Stenographer*

EXTENSION DIVISION

(East Wing)

SIMEON H. BING, A. M., Ed. D. *Director*
LEONA HUGHES, B. S. in Ed. *Secretary*

ALUMNI OFFICE

(East Wing)

CLARK EMERSON WILLIAMS, A. B. ... *Alumni Secretary and Director of Publicity*
GERALDINE COE HOPE *Stenographer*
MARY KATHRYN DAUM, B. S. S. *Assistant*
CHARLES ARTHUR DENSMORE, A. B. *Assistant*

SECRETARIAL STAFF AND ADMINISTRATIVE ASSISTANTS

MILDRED CONSTANCE ANDREWS, A. B. *Secretary to the Dean,*
College of Liberal Arts
Cutler Hall
MARGARET NAOMI LAX *Secretary to the Dean of Women*
West Wing
HELEN GLEASON, B. S. in Ed. *Secretary to the Dean of Men*
Cutler Hall
ANNA ELIZABETH MUMMA, A. B. *Secretary to the Dean,*
College of Education
Cutler Hall
HELEN FALLOON STEVENS, Mus. B. *Assistant to the Director of the*
School of Music
Music Hall
JAMES EDWARD HOUSEHOLDER, A. B. in Com. *Assistant to the Dean of Men*
Cutler Hall
ELIZABETH REGINA MULLIGAN, B. S. S. ... *Secretary to the Director of Athletics*
Men's Gymnasium
ANNA MARIE KLEINSCHMIDT, B. S. in Ed. *Assistant in the Office of the*
Director of Teacher-Training
Putnam Hall
NETTIE ELIZABETH TARASUCK, A. B. ... *Secretary in the Office of the President*
Ewing Hall

DORMITORY STAFF

RAFAEL R. JOHNSON *Buyer for Dining Halls*
Ewing Hall
MABEL NAEME SWANSON, M. S. *Director of Dining Halls*
Ewing Hall
WILLANNA M. RIGGS *Head of Boyd Hall*
MARY LOUISE FIELD, A. M. *Head of Lindley Hall*
MARY HELEN F. FRETTS, A. M. *Head of Howard Hall*

UNIVERSITY INFIRMARY

M. ELSIE DRUGGAN, R. N. *Nurse*
MARY APPEL GRIM, R. N. *Assistant Nurse*
BLAINE R. GOLDSBERRY, M. D. *Physician*

OFFICERS OF INSTRUCTION*

ELMER BURRITT BRYAN, LL. D., L. H. D.
President

EDWIN WATTS CHUBB, Litt. D., LL. D.
Dean of the College of Liberal Arts, and Professor of English Literature

THOMAS COOKE MCCrackEN, Ph. D.
Dean of the College of Education, and Professor of Education

IRMA ELIZABETH VOIGT, Ph. D.
Dean of Women

JOHN REED JOHNSTON, A. B.
Dean of Men, and Associate Professor of History

ALBERT ALGERNON ATKINSON, M. S.
Professor of Electrical Engineering and Physics

CHARLES MOFFATT COPELAND, B. Ped.
Director of the School of Commerce, and Professor of Accounting

WILLIAM BURDELE BENTLEY, Ph. D.
Professor of Chemistry

HIRAM ROY WILSON, Litt. D.
Professor of English

LEWIS JAMES ADDICOTT, B. S., C. E.
Professor of Civil Engineering, and Supervising Architect

WILLIAM FRANK COPELAND, Ph. D.
Professor of Agriculture

THOMAS NATHANAEL HOOVER, M. Ph., A. M.
Professor of History

WILLIS LLOYD GARD, Ph. D.
Professor of Education

WILLIAM ALDERMAN MATHENY, Ph. D.
Professor of Civic Biology and Botany

MARY THEODORA NOSS, Univ. D.
Professor of French

WILLIAM HAWTHORNE COOPER, A. M.
Professor of Speech and Dramatic Art

GEORGE EVERT McLAUGHLIN, B. S. in Ed.
Professor of Industrial Education

ISAAC EMERY ASH, Ph. D.
Professor of Sociology

ROBERT LEE MORTON, Ph. D.
Professor of Mathematics

VICTOR DWIGHT HILL, A. B.
Professor of Classical Languages

GERALD THOMAS WILKINSON, Ph. D.
Professor of French and Spanish

WALTER SYLVESTER GAMERTSFELDER, Ph. D.
Professor of Philosophy and Ethics

*Arranged in order of priority of service within respective ranks.

- JAMES PERTICE PORTER, Ph. D., Sc. D.
Professor of Psychology
- CLARENCE CRAMER ROBINSON, Mus. M.
Director of the School of Music, and Professor of Voice
- OSSLIAN CLINTON BIRD, A. B.
Director of Athletics, and Professor of Physical Education
- WILMER C. HARRIS, Ph. D.
Professor of History
- CLYDE EDWARDS COOPER, Ph. D.
Professor of Geography and Geology
- EDWIN B. SMITH, Ph. D.
Professor of History and Political Science
- ALBERT CARL GUBITZ, A. M.
Professor of Economics
- AZARIAH BOODY SIAS, Ph. D.
Director of Teacher Training, and Professor of School Administration
- EDITH E. BEECHEL, Ph. D.
Professor of Education
- VELMA PHILLIPS, Ph. D.
Professor of Home Economics
- EINAR AUGUST HANSEN, Ph. D.
Director of Rufus Putnam School, and Professor of Elementary Education
- FRANK BARNHART GULLUM, M. S.
Associate Professor of Chemistry
- WILLIAM HENRY FENZEL, B. C. S., A. B.
Associate Professor of Accounting and Economic Geography
- MARY ENGLE KAHLER, A. M.
Associate Professor of English
- CONSTANCE TRUEMAN MACLEOD, A. M.
Associate Professor of Education
- HARRY HOUSTON PECKHAM, A. M.
Associate Professor of English
- RAYMER MCQUISTON, A. M.
Associate Professor of English
- BRANDON TAD GROVER, B. S. in Ed.
Associate Professor of Physical Education, and Head Basketball Coach
- DON C. PEDEN, B. S.
Associate Professor of Physical Education, and Head Coach of Football and Baseball
- MAUDE ETHEL CRYDER MATTHEWS, A. M.
Associate Professor of German
- HENRY JOHN JEDDELOH, A. M.
Associate Professor of Sociology
- DEFOREST WILBER INGERHAM, Mus. B.
Associate Professor of Violin
- JANE KELLOGG ATWOOD, M. S.
Associate Professor of Geography
- EDITH ARMSTRONG WRAY, Ph. D.
Associate Professor of English
- RICHARD ALLEN FOSTER, Ph. D.
Associate Professor of English
- JOSEPH BUNN HEIDLER, Ph. D.
Associate Professor of English

- SARAH HATCHER, A. M.
Associate Professor of Physical Education
- MELVIA LYNCH DANIELSON, A. M.
Head of the Department of Music Education
- HARVEY C. LEHMAN, Ph. D.
Associate Professor of Psychology
- EMMETT ROWLES, A. M.
Associate Professor of Biology
- WILLFRED MAUCK, A. M.
Associate Professor of History
- ALBERT WESLEY BOETTICHER, M. S.
Associate Professor of Civic Biology and Botany
- HARRY EDWARD BENZ, Ph. D.
Associate Professor of Mathematics
- WILLIAM JOHN TRAUTWEIN, A. B.
Associate Professor of Physical Education
- EDNA MARTHA WAY, A. M.
Head of the Department of Art Education
- ROY HOYT PAYNTER, M. B. A.
Associate Professor of Marketing
- JOHN HOMER CASKEY, Ph. D.
Associate Professor of English
- RALPH FERDINAND BECKERT, A. M.
Associate Professor of Accounting
- AMOS CAREY ANDERSON, Ph. D.
Associate Professor of Psychology
- CURTIS WILLIAM JANSSEN
Associate Professor of Music, and Bandmaster
- WALTER WENTWORTH WIGGIN, M. S.
Associate Professor of Agriculture
- EDWARD CHRISTIAN CLASS, Ph. D.
Associate Professor of Education
- RUSH ELLIOTT, Ph. D.
Associate Professor of Biology
- CARL ADAM FREY, Ph. D.
Associate Professor of Biology
- DOW SIEGEL GRONES, B. S. in Ed.
Assistant Professor of Industrial Education
- DARRELL BENNETT GREEN, A. M.
Assistant Professor of Physics
- IDA MAE PATTERSON, B. S.
Assistant Professor of Home Economics
- M. ELSIE DRUGGAN, R. N.
Nurse, and Assistant Professor of Hygiene
- MARIAM SARAH MORSE, A. M.
Assistant Professor of Home Economics
- WILLIAM HENRY HERBERT, A. M.
Assistant Professor of Physical Education
- ISABELLE MCCOY WORK, A. M.
Assistant Professor of Art Education
- MARY LOUISE FIELD, A. M.
Assistant Professor of History

- CHARLES RICHARD KINISON, M. S. in Ed.
Assistant Professor of Industrial Education
- JAMES RUEY PATRICK, Ph. D.
Assistant Professor of Psychology
- FRANK JOHN ROOS, Jr., Ph. B.
Assistant Professor of Art
- ALLEN RAYMOND KRESGE
Assistant Professor of Organ, Harmony, and Piano
- JOY CUTLER, B. S.
Assistant Professor of Voice and History of Music
- MARY HELEN F. FRETTS, A. M.
Assistant Professor of English
- THURMAN CARLISLE SCOTT, Ph. D.
Assistant Professor of Psychology
- CARL OSCAR HANSON, A. M.
Assistant Professor of Banking and Finance
- DORIS VIRGINIA WILHITE, A. M.
Assistant Professor of Music Education
- LORIN COOVER STAATS, A. M.
Assistant Professor of Speech and Dramatic Art
- GEORGE W. STARCHER, Ph. D.
Assistant Professor of Mathematics
- ROBERT BOWKER WESTBROOK, A. M.
Assistant Professor of Advertising and Salesmanship
- CHARLES HENRY HARRIS, Ph. B.
Instructor in Journalism
- WILLIAM FOSTER SMILEY, A. B. in Com.
Instructor in Journalism
- MONROE THOMAS VERMILLION, A. M.
Instructor in Civic Biology
- IRENE ELLEN WITHAM, A. M.
Instructor in Piano
- MARY DEE BLAYNEY, A. M.
Instructor in Music Education
- ARTHUR H. RHOADS, A. M.
Instructor in Physical Education
- MARGARET ABEL, A. M.
Instructor in Art Education
- CHARLOTTE ELLEN LATOURETTE, A. M.
Instructor in Physical Education
- MABEL NAEME SWANSON, M. S.
Instructor in Home Economics, and Director of Dining Halls
- ZOE R. BRUNDAGE, A. M.
Visiting Instructor in Secretarial Studies
- VERL CALVON MCKIM, A. M.
Visiting Instructor in Geography
- JULIA LUELLE CABLE, A. M.
Assistant in Psychology
- GRACE FULLINGTON McVAY, A. B.
Fellow in Mathematics
- MYRTLE E. HORLACHER, B. S. in Ed.
Fellow in Sociology

TRAINING SCHOOLS

AZARIAH BOODY SIAS, Ph. D.

Director of Teacher Training, and Professor of School Administration

RUFUS PUTNAM SCHOOL

EINAR AUGUST HANSEN, Ph. D.

Director of Rufus Putnam School, and Professor of Elementary Education

MARIE ACOMB QUICK, A. M.
Supervising Critic, Kindergarten

MABEL BERYL OLSON, A. M.
Supervising Critic, First Grade

HELEN MARIE EVANS, A. M.
Supervising Critic, Second Grade

CLEO FRANCES HIGGINS, A. M.
Supervising Critic, Third Grade

MARGARET VIOLA NELSON, A. M.
Supervising Critic, Fourth Grade

MARY WARD, A. M.
Supervising Critic, Fifth Grade

ESTHER MAE DUNHAM, A. M.
Supervising Critic, Sixth Grade

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

MECHANICSBURG SCHOOL

LUCY ADELIA EDWARDS, A. M.
Principal, and Supervising Critic, Seventh and Eighth Grades

IRENE I. IRWIN, A. M.
Supervising Critic, First and Second Grades

MARY VIRGINIA NESOM, A. M.
Supervising Critic, Third and Fourth Grades

JULIA PAULINE DAVIS, A. M.
Supervising Critic, Fifth and Sixth Grades

THE PLAINS SCHOOL

ELVA COOPER, A. M.
Principal, and Supervising Critic, Sixth Grade

ANNIE GOCHNAUER, A. M.
Supervising Critic, First and Second Grades

HELEN LESLIE DUNLAP, A. M.
Supervising Critic, Second and Third Grades

IRENE CONSTANCE ELLIOTT, A. M.
Supervising Critic, Fourth Grade

VILAS O. KAIL, A. M.
Supervising Critic, History and Science

LOUISE JANE DIVER, A. M.
Supervising Critic, English and History

ATHENS HIGH SCHOOL

OLIVER L. WOOD, A. M.
Principal, and Supervising Critic, Mathematics

EDWARD SAMUEL DOWELL, A. M.
Supervising Critic, Social Science

EVA V. LAMON, A. M.
Supervising Critic, Commerce

IRENE HAND, A. M.
Supervising Critic, English

CARL HENRY ROBERTS, A. M.
Supervising Critic, History

HALE CLIFFORD PICKETT, A. M.
Supervising Critic, Mathematics

LLOYD B. BJORNSTAD, A. M.
Supervising Critic, Industrial Arts

GLADYS E. MOORE, A. M.
Supervising Critic, Latin

LOCATION

Athens, the seat of Ohio University, is situated in the southeastern part of the State. It is easily accessible from the east and west by the Baltimore & Ohio and its branches; from the southern, central and northern portions of the State by the Chesapeake and Ohio and the Toledo and Ohio Central railways. By these routes it is one hundred and sixty miles from Cincinnati and seventy-five miles southeast from Columbus. The sanitary arrangements of the city are unsurpassed. Its principal streets are paved; it is provided with water works and sewerage; its Board of Health is vigorous and efficient. There are few cities in the country that are more desirable as a place of temporary or permanent residence than Athens.

The lover of natural scenery cannot fail to be charmed with its picturesque surroundings. The winding valley of the Hocking and the wooded hills beyond present a series of striking views from the University, while the wide prospects, as seen at certain seasons from some of the neighboring summits, afford a quiet and varied beauty.

ORIGIN

Educational effort at Ohio University is included in the work of the College of Liberal Arts and the College of Education. Ohio University was organized by an act of the Ohio Legislature in 1804. The trustees are appointed by the Governor. The support is derived chiefly from a levy upon the taxable property of the State. The institution is the oldest of Ohio's three State Universities.

The College of Education was established by an act of the Ohio Legislature in March, 1902. It was opened for students in September, 1902, and at that time was known as the State Normal College.

ADMISSION

The University admits without examination graduates of the four-year high schools in Ohio which have been classed as First Grade by the State Department of Education. Graduates of secondary schools of other states whose own state universities accept them are admitted on the same basis as students who are residents of Ohio. Graduates of secondary schools in states which do not support universities of the same general scope and standard as Ohio are admitted provided the student does not rank in the lowest third of his graduating class. Students are admitted without examination upon the recommendation of the Principal of the high school, if their grades warrant it.

Courses in the high school must include the following requirements as given by the State Department of Education:

Two units of English.

Two units of social studies, one of which shall be advanced American history ($\frac{1}{2}$) and civics ($\frac{1}{2}$).

One unit of natural science.

Two majors of three units each.

Two minors of two units each.

All students who have taken the College Ability Entrance Test will present an official record of it with their entrance credentials. The test will be given on Monday, June 12, at 3:00 P. M., in Cutler Hall to those who have not presented an official record showing that they have passed the test. A student must, however, receive a card from the Registrar's office to present to the examiner. Students who take the test at a later date will be assessed a fee of \$1.00.

Adult students 21 years of age or over may be admitted to the University upon passing the University General Ability Test, provided the scores are sufficiently high to assure the University that the student has the ability to carry college work even though he may have had no high school training or only a partial high school course. Such special student shall not become a candidate for graduation, however, until the deficiency in his high school education shall first have been made up. This test will be given at 3:00 P. M., June 12th.

Students whose legal residence is in Ohio and who come to the college after having done work in another college, normal school, or university will be granted advanced standing for all such work which is of college grade, provided the college or normal school in question is fully accredited.

Students who are not legal residents of Ohio and who wish to transfer to Ohio University will be accepted with regular transfer of credits provided a creditable record has been maintained in the institution from which they are transferring. No college credit is given for high school units in excess of the fifteen units required for admission. The student who receives advanced standing is required to take in Ohio University all the prescribed subjects in the course he selects unless these prescribed subjects or other substantial equivalents have been taken already in the institution from which he comes. A student wishing advanced standing should send to the Registrar not less than two weeks in advance of the opening of the university **an official transcript of his college record including a letter of honorable dismissal and his high school record.** Students who wish to secure advanced standing in the University by examination must do so within one month after their first registration as students. Permission for such examination must be obtained from the Registrar. All candidates for examination must notify the Registrar at least four days before the examination is to take place.

A student coming temporarily from some other college for summer work should arrange, before the regular school year ends, to have his Dean or Registrar send to the Registrar of Ohio University a statement of good standing.

GRADUATION

The Bachelor's degree (A. B., B. S., B. S. in Education, or other bachelor's degree) is conferred upon those who complete the requirements as set forth in the annual catalog. For detailed information see the annual catalog.

The Master's degree will be conferred on the completion of an additional year's work of graduate quality in advance of the Bachelor's degree, provided that such work does not involve additional expenditure for laboratory or

other equipment. Only students with excellent records as undergraduates will be admitted to graduate work. Admission to graduate study should be arranged before registration day.

All work for the Master's degree is done under the direction of a committee composed of the President of the University, the Deans of the Colleges, the Registrar of the University, and the Professor in charge of the major courses.

Inquiries concerning graduate study should be addressed to the office of the Registrar, Ohio University.

FACULTY

With few exceptions the regular faculty of the University will be on the campus for the work of the regular summer session. As many faculty members as are needed will remain for the post summer session. The type of instruction, therefore, during the summer session will be the equal of that during the regular college year.

TYPE OF WORK AND COURSES OF STUDY

The faculty offers the same high grade of work during the summer session that it does in the regular school year. The members of the student body are earnest and eager and appreciate their needs and opportunities. It is the purpose of the University to give practical courses that will meet these needs. Students are urged to bring their particular problems to the notice of the teachers and to make full use of the equipment of the University in solving them.

Superintendents, supervisors, and principals will find courses designed to help them with their problems. Opportunity will be given for research in the various fields of educational practice.

Those who are not preparing to be teachers will find ample provision for study in courses in the College of Liberal Arts.

RESIDENCE

No student will be awarded a degree or diploma who has not been in residence at Ohio University two semesters or the equivalent. The last work of a diploma or a degree must be completed in residence. Two eight-week summer sessions are considered to be the equivalent of a semester. The post session will count as three weeks of required residence. Three summer sessions and three post sessions are considered the equivalent of one year of residence.

CREDIT HOURS

Students will be allowed to carry as few hours as they wish but the regular fee will be charged. The usual load of the student during the regular summer session will be eight semester hours of credit. Nine semester hours of credit will be allowed on the approval of the Committee on Registration where the student's record warrants it. Three hour courses will meet six times a week and other courses accordingly so that entire semester courses may be completed during the summer session. The maximum load during the post summer session will be three semester hours.

Classes may be visited or audited by those to whom special visitor's cards are issued by the President of the University. Any person wishing to audit regularly will be required to pay a fee of two dollars a semester hour though no credit is expected or given.

Absences. Absence from class on the first day of the summer session may involve a reduction in the grade of the student. It is very important that every student be in class at the first meeting of the course. Students presenting acceptable excuses for the first day absences must do so at the Dean's office within ten days after registration day. Additional fees for late registration will be as follows; \$2.00 for registration June 13; \$4.00 on June 14; with increase of \$2.00 a day for later registration, including Saturday. In no case will the late registration fee be more than \$10.00. No registration will be allowed after Tuesday, June 20. In case a student finds it impossible to enter on registration day he should write to the office of the Registrar, asking for permission to enter late without special fee for late registration. Late registration will also mean in most cases that the student must carry fewer than the usual number of hours.

Any student absent from class on the last day of the session will have his report turned in as "incomplete" unless he has a permit from the President to leave before the close of the session.

Changes in Registration. All changes in registration must be made in the office of the Dean of the college in which the student is registered. This applies to courses dropped, courses added, and changing from one course to another. No change in registration should be made after Thursday, June 22. A fee of two dollars (\$2.00) will be charged for any change after June 17.

SCHEDULE OF RECITATIONS

With few exceptions classes will begin at 7 o'clock and close at 12 o'clock noon. In general the afternoon will be free for study and recreation. A complete detailed schedule of recitations will be in print available for use of students and their advisers on registration day, Monday, June 12.

EXPENSES

Fees

Regular Summer Session

A registration fee of \$22.50 will be required of all students having legal residence in Ohio.

A registration fee of \$35.00 will be required of all new students who are legal residents of other states which support universities of the same general scope and standards as Ohio.

A registration fee of \$47.50 will be required of all new students who are legal residents of states which do not support universities of the same general scope and standards as Ohio.

Post Summer Session

A registration fee of \$5.00 for each semester hour of credit will be required of all students.

Laboratory Fees

The usual laboratory fees will be required in any summer session.

Rooms and Board for Men. The University does not maintain dormitories for men. Lists of private rooms which have been inspected and approved are available in the office of the Dean of Men, Cutler Hall.

Rates for the rooms vary according to their location, equipment, and the number of persons who occupy them. This variation extends from \$1.50 to \$3.00 a person a week for double rooms, and from \$2.50 to \$5.00 for single rooms.

Rooms and Board for Women. Howard Hall will be opened for the summer of 1933 to women students. Furnishings of the rooms include everything necessary, except such personal things as towels, soap, dresser coverings, couch coverings, cushions, pictures, etc.

Room rent ranges from \$2.00 to \$3.00 a week a person; board, \$4.50 a week. Rent is due at the beginning of the summer for the entire session of eight weeks.

For assignments in Howard Hall, write to Miss Mary Hellen Fretts. Accompany your request for an assignment with a \$5.00 retaining fee. Write early and in case assignment is obtained, remember that no room will be held for any applicant later than 9:00 o'clock P. M. of registration day. No room will be held unless secured by the \$5.00 retaining fee.

Information about rooms in private homes may be obtained, upon personal application, at the office of the Dean of Women. Addresses are no longer sent out by mail. These rooms may be rented at from \$2.00 to \$3.00 a week a person when two occupy the room.

Books. Text-books can be purchased at a local bookstore at prevailing prices. Students should bring with them as many supplementary texts as convenient.

Incidentals. A student's incidental expenses are largely what he allows them to be. Such expenses need not be heavy during the summer session.

LIBRARY

The Edwin Watts Chubb library will be open to all students daily, except Sunday, from 7 A. M. to 9:30 P. M.

EQUIPMENT FOR THE SUMMER

Buildings. With few exceptions all of the University buildings will be at the disposal of the summer session.

FACILITIES FOR STUDENT TEACHING DURING THE SUMMER SESSION

The College of Education of Ohio University adheres closely to the policy of the State Department of Education in requiring that student teaching be done before any diploma is issued by the University.

From four to eight hours of student teaching and three hours of observation and participation must be completed by a student before the two-year diploma or the B. S. in Education degree can be conferred. Student teaching credit will be transferred to the records of this institution from accredited

colleges but such credit will not entirely satisfy the requirement of Ohio University. In every case the student shall do some student teaching in the training schools of the University. Qualified supervisors, superintendents, and principals, however, may satisfy this requirement by doing actual supervision in the training schools in conjunction with the regular critic teacher. This will be done in the course, "Supervisory Practice."

Particular attention will be given this summer to the training of "critic teachers" and supervisors. Special facilities will be provided for actual supervision of student teachers by members of this group. Much of the work will be carried on in the training schools.

All of the training schools of the College of Education will be in session during the regular summer session. The City and Rural Elementary Training Schools, including the Kindergarten and Special Education classes, and the Junior and Senior High Schools, will offer opportunity for student teaching in accordance with the plans given below. Reservations for student teaching will be made in advance as long as places are available.

Fees. A fee of \$2.00 for each semester hour of credit will be charged for student teaching and supervisory practice.

THE TRAINING SCHOOLS

The Elementary Training Schools will provide opportunity for observation and student teaching in the kindergarten and the six grades of the elementary school. The work of each grade is in charge of an expert supervising critic teacher. The schools are typical elementary schools in so far as the enrollment is concerned. The equipment compares favorably with that found in the best type of city elementary school.

The work offered the children during the summer will include physical education, arts and crafts, and other interesting and pleasurable educative activities.

As a part of the regular work a kindergarten is conducted where students may observe and obtain practical experience in all phases of such work.

A class in special education will be in session for regular work for the training of teachers of exceptional children. Opportunity will be given for actual work in the classroom and for instruction in methods adapted to this kind of school work.

The High Schools. The Junior and Senior High Schools will be in session during the eight weeks of the regular summer session. So far as is possible the curricula of the regular school year will be offered. Classes will be arranged in the Junior and Senior High Schools so that one-half of a unit can be obtained in one subject. The normal load will be two subjects.

Tuition. No tuition will be charged any pupil in any training school during the summer session.

THE BUREAU OF APPOINTMENTS

The Bureau of Appointments of Ohio University endeavors to act as a clearing house for all students and graduates of Ohio University and for employers.

Summer session students should not expect large service the first summer they are registered with the Bureau. Its largest service will be to gather

credentials and assist such graduates to make advancements when opportunity comes for better positions if credentials warrant such advancement.

In making recommendations great care is exercised. Special qualifications of the various candidates for the particular positions are in every case fully considered. Records are kept of every detail of the student's qualifications. These include the estimate of the University professors of the scholarship, personality, strength of character, and general adaptability of the candidate. For those interested in teaching, the records would include critical estimates of the student's teaching ability indicated by his student-teaching in the training schools and the estimate of superintendents and supervisors under whom the student may have taught. Those registered are kept in mind as opportunity comes for better positions if the record of the individual after graduation warrants advancement.

Blanks may be obtained in the office of the Bureau of Appointments, Cutler Hall. In no way does the Bureau guarantee positions for those who enroll, but it promises the best support which it is able to give in keeping the qualifications and collegiate record of the student. It is hoped that all students will register with the Bureau before graduation.

Chorus and Orchestra Participation

The opportunity for ensemble experience in musical organizations is afforded through the Chorus and Campus Orchestra. These groups meet four times a week throughout the summer session.

Special Four-week Courses in Athletic Coaching

The coaching staff of the Physical Education Department will give special attention to courses in coaching and officiating during the Summer Session, 1933. These courses will include instruction in coaching football, basketball, baseball, and track. Coaches Peden, Trautwein, and Grover will be in charge of this work. Certain other short courses will be available.

This special session will open June 12th and continue four weeks, closing July 8th.

Fees will be the same as for the eight-week Summer Session.

Summer Session Field Trip to South America, Central America, Mexico and our West

Ohio University is sponsoring a field trip for its Summer Session of 1933 which should prove instructive, interesting, and restful. Dr. C. E. Cooper, Head of the Department of Geography and Geology, will have charge of the group.

Students wishing to take this work will enroll for the usual eight or nine hours and pay the regular summer session fees. All work must be taken in the Department of Geography and Geology with the exception of a few other courses which may be taken by special arrangement. Persons wishing to take the trip, not asking for credit, may do so whether enrolled in the University or not. They will, however, observe the regulations governing the trip.

After approximately five weeks of regular classroom work on the Campus the students will accompany Dr. Cooper on a trip of about 28 days, starting at Athens and ending at San Francisco. The start will be about July 11 and end, officially, about a week after the close of the summer session.

The group will go from Athens by railroad to New York City. After a day spent in seeing the city the party will board the steamer for South America. Two stops will be made on the coast of Colombia, two at the Canal Zone, about four on the coast of western Central America, one on the coast of Mexico, and on our Pacific coast at Los Angeles and San Francisco. There will be opportunity for about a day of study in each port. After a day in San Francisco the party will disband. Its members will return to Athens by rail. Each individual may choose the route he desires. Stop-over privileges, without extra cost, will allow the students to spend as much time in the West as they may wish.

The minimum cost of the trip will be \$245 and the maximum \$260. This includes everything except tips, Pullman expenses to New York and on the return trip from San Francisco, and incidentals at ports. All accommodations are First Class. The boat will be your hotel.

Persons interested in this trip, whether expecting to attend the Summer Session or not, should write at once to Dr. C. E. Cooper, Athens, Ohio. A contract must be signed and a deposit of \$25 must be made by May 1st in order that reservations may be made. The remainder of the cost must be paid at the opening of the summer session.

Unusual Advantages

Besides having an opportunity to pursue systematically almost any study desired, under the direction of those regularly employed in this work, the student of the summer session enjoys the advantages of the acquaintance, friendship, and counsel of superintendents, principals and others who are interested in education.

Summer Pleasures

There is no more attractive, beautiful, and inspiring natural scenery anywhere in the State than in the country surrounding Athens. Various excursions, short trips, picnics, and hikes to many points of interest are organized under the direction of members of the faculty. While no official organization of these trips is made by the University authorities, nevertheless they are an enjoyable and valuable feature of a summer spent in Athens.

Arrival in Athens

On arrival in Athens, unless definite arrangements have been made concerning a lodging place, men students should report at once to the Office of the Dean of Men, first floor, Cutler Hall, and women students to the Office of the Dean of Women, second floor, West Wing.

PART I. THE REGULAR SUMMER SESSION

DEPARTMENT OF INSTRUCTION

COURSES OF STUDY

The following courses of study are offered to meet the needs of students of both colleges—the College of Liberal Arts and the College of Education. All courses in the 100's and 300's are regular courses in the College of Liberal Arts; all in the 200's and 400's are regular courses in the College of Education. Many courses in one college will be accepted toward graduation in the other college. They are always accepted when there is no corresponding department in the other college, provided the required studies in the course in which one is enrolled allow their selection. The University reserves the right to discontinue any course if the students in it are few in number.

AGRICULTURE

201. Methods in General Agriculture. This course is planned to meet the needs of those preparing to teach under the direction of a county superintendent. The list of topics for study includes soils, farm crops, farm animals, insect enemies, fungous diseases, rural problems, and school agriculture. Credit, three hours. Mr. Wiggin.

202. Vegetable Gardening. Classification, description, use, culture, grading, storing and marketing of crops commonly known as vegetables. Suited for those interested in the production of vegetables in home gardens or in commercial gardens. Credit, three hours. Mr. Wiggin.

415. Evolution and Heredity. A consideration of the prominent theories of environment, evolution, and inheritance. This course is based on the idea that man's educational and biological progress depends, first of all, on his organic heritage. Prerequisite, a knowledge of botany or zoology. Credit, three hours. Dr. Copeland.

419. Floriculture and Greenhouse Management. A study of important cut-flower crops and pot-plant crops grown in greenhouses, and the management of greenhouses. Credit, two hours. Mr. Wiggin.

437. Genetics. A study of theories relating to variations, mutations, and changes responsible for the origin of new varieties and races of plants and animals, and the educational interest, to man, of these facts and theories. Prerequisite, Course 415 or 416. Credit, three hours. Dr. Copeland.

441. Eugenics. Problems of inheritance and environment that relate to race betterment. Topics: heredity, natural and normal functions, natural and artificial selection, plasticity of protoplasm, dysgenics, eugenics, sterilization, mixing of races, posterity. Prerequisite, Course 415 or 416. Credit, two hours. Dr. Copeland.

ART

102. History of Art. The comparative development of the three major arts: architecture, sculpture, and painting, is studied in each country, from the beginning of the Renaissance to the present. The lectures are illustrated by lantern slides. Credit, three hours. Mr. Reos.

105. Introduction to Art. The appreciation of painting and the other arts is approached through a study of the principles of composition and other basic factors. The unity of all art and decoration within periods is studied, as well as the basic differences between good and bad art, by the study of examples. Especial emphasis is laid on the art of today. Credit, two hours. Mr. Roos.

311. Modern Art. A discussion of the factors through which developed the Modernists in painting is followed by an investigation of the Impressionists and the Post-Impressionists, and the numerous schools which have followed them, both in Europe and America. The contemporary trend as seen in architecture and sculpture is also traced from the revivals of styles to the most radical examples as seen in Europe and America today. Credit, two hours. Mr. Roos.

201. Art Education. Art principles carried out in original designs in line, dark and light, and color. Representative drawing and painting, lettering. Credit, two hours. Miss Abel.

202. Art Education for Intermediate and Higher Grades. Discussion of modern tendencies in teaching art with variations of definite applications to activities of the classroom. Prerequisite 201. Credit, one hour. Miss Way, Miss Abel.

204. Art Education for Early Childhood. Students plan and carry out problems, which might arise in an activity program. Class criticism is given from the point of view of the child, and that of the college student. Prerequisite 201. Credit, one hour. Miss Abel.

215. Art Structure. Development of creative ability through the study of how line, tone and color may be used to produce fine relationship in design and composition. Credit, two hours. Miss Work.

216. Art Structure. Problems in design with special emphasis upon color and color harmonies. Prerequisite, Course 215. Credit, three hours. Miss Work.

415. Art Appreciation. Appreciative study of line, mass, color and form, through design, architecture, sculpture, and painting. Lecture with lantern slides and colored illustrations. Reports. Credit, one hour. Miss Way.

442. Art Supervision and Curricula. Art objectives. Projects in teaching and supervision. The place of the art supervisor in various types of schools. Suggestions for growth toward the ideal situation. Prerequisite, Course 441. Credit, two hours. Miss Way.

465. Seminar, Research Work. Collections of prints, books, textiles, magazines, clippings, and mimeographed material to be used in further study, teaching and supervising. Class discussion of individual research. Credit, one hour. Miss Way.

BIOLOGY

103. General Zoology. A broad survey of facts and principles of zoology as part of a liberal education and as preparation for teaching and advanced work. The chief topics considered are: nature of living material; source of animal energy; response to stimuli; principles of reproduction; brief review of the lower animal groups including reference to their economic importance, habits, and life histories. Four lectures and four hours of laboratory work each week. Credit, three hours. Mr. Rowles.

104. General Zoology. Continuation of Zoology 103. The topics considered being: review of the higher animal groups, including vertebrates, with reference to their economic importance, habits and life histories; facts and factors of animal distribution and the relation of animals to their surroundings; organic evolution; Mendelian Heredity. Prerequisite or concurrent, Zoology 103. Four lectures and four hours laboratory work each week. Credit, three hours. Dr. Frey.

105. Readings in Biology. This course is offered for students who may be interested in advances in biological fact and thought presented in a non-technical and yet authoritative manner, especially as these apply to the broad field of human affairs. The subject matter is presented through the reading of selected books and magazine articles. As a prerequisite the student must have fulfilled the Arts College requirement in biology, or its equivalent. Reports, occasional quizzes, and conferences. Credit, one hour. Mr. Rowles.

305. Comparative Vertebrate Anatomy. A comparative study of the skeleton and organ systems of selected vertebrates such as, the shark, frog, turtle, and bird. Required of pre-medical students. Prerequisite, General Zoology 103-104 or General Biology 101-102. Four lectures and eight hours of laboratory work each week. Credit, four hours. Dr. Elliott.

307. Elements of Anatomy. Primarily a study of bones, muscles, and joints, with some attention to the study of viscera. Dissection of the cat will be supplemented by demonstration of the same structures in the human being. Designed especially for students majoring in Physical Education. Prerequisite, General Biology 101-102 or General Zoology 103-104. Four lectures and four laboratory periods each week. Credit, three hours. Dr. Elliott.

308. Sanitation. A study of environment in its relation to human welfare. Subjects considered are: air, food, water, and milk as vehicles of infection; water purification and sewage disposal; camp and rural sanitation; swimming pool sanitation. These subjects are considered as sources of communicable diseases, attention being given to the mode of transmission and to methods of instituting proper means of control in each case. Designed for physical education students. Prerequisite, General Biology 101-102 or General Zoology 103-104. Daily lectures. Credit, three hours. Dr. Frey.

321. Elementary Human Physiology. An abridged course in human physiology which considers the general physiological principles of irritability, muscle and nerve physiology, blood, circulation, respiration, digestion, nutrition, excretion, central nervous system, special senses, reproduction and the endocrine glands. Recommended for general students wishing a knowledge of physiology. Required of home economics and physical education students. Prerequisite, General Biology 101-102 or Zoology 103-104. A knowledge of

chemistry is desirable. Four lectures and eight hours laboratory work each week. Credit, four hours. Mr. Rowles.

334. Vertebrate Embryology. A course in the development of vertebrates illustrated by the chick and the pig. There is a preliminary consideration of maturation and fertilization followed by a study of the formation of foetal membranes and the development of the various organs. Recommended for pre-medical students and others majoring in biology. Prerequisite, Anatomy 305. Open to Juniors and Seniors. Four lectures and eight hours of laboratory each week. Credit, four hours. Dr. Elliott.

345. General Bacteriology. A study of the structure, classification, and relationships of bacteria, their conditions of existence; preparation of cultures, staining technic; biochemical reactions. Prerequisites, Biology 101-102 or Zoology 103-104. Open to Juniors and Seniors. Two lectures and ten hours of laboratory work each week. Credit, four hours. Dr. Frey.

363. Biological Problems. Advanced study or research along the lines of work offered by the department, such as: anatomy, bacteriology, ecology, entomology, invertebrate zoology, parasitology, physiology. Required for B. S. in Biology. For Seniors and graduates. Permission of the department. Credit, two to eight hours. Mr. Rowles, Dr. Elliott, Dr. Frey

CHEMISTRY

103s. General Chemistry. An introductory course in the subject. Six lectures and recitations each week. Credit, three hours. Mr. Gullum.

103s. General Chemistry Laboratory. A laboratory course to accompany General Chemistry, 103s. Three two-hour periods each week. Credit, one hour. Mr. Gullum.

***305. Qualitative Analysis.** A general course in qualitative analysis dealing with the separation and identification of the metals. Two lectures and recitations and twelve hours laboratory work each week. Credit, three hours. Mr. Gullum.

***306. Qualitative Analysis.** A continuation of Course 305. Complete qualitative analysis of simple substances and mixtures. Credit, three hours. Mr. Gullum.

309s. Quantitative Analysis. A course in volumetric analysis. Two lectures and 15 hours per week laboratory work. Course 305 is prerequisite. Credit, four hours. Dr. Bentley.

315s. Organic Chemistry. A short course in the subject with work in both aliphatic and aromatic series. Lectures and recitations six hours per week. General Chemistry is prerequisite. Credit, three hours. Dr. Bentley.

317s. Organic Preparations. A laboratory course in organic chemistry. Ten hours laboratory work per week. Course 315 must precede or accompany this course. Credit, two hours. Dr. Bentley.

318s. Organic Preparations. A continuation of Course 317s. Credit, two hours. Dr. Bentley.

Courses 309s, 315s, 317s, and 318s are designed especially for students preparing for the study of medicine. Completion of these courses will satisfy the entrance requirements of most medical colleges.

*The course in greater demand will be given.

341. Chemistry Laboratory Practice. Instruction and practice in laboratory teaching and supervision. Recommended to those preparing to teach chemistry. Admission by permission. Credit, two hours. Mr. Gullum.

CIVIC BIOLOGY AND BOTANY

204. Freshman Botany. A general introductory course dealing with plants in their relation to everyday life. Open to Freshmen and Sophomores. Credit, three hours. Mr. Boetticher.

205. Civic Biology. The greater portion of this course will be devoted to insects in their relation to man. Two sections. Credit, three hours. Dr. Matheny, Mr. Vermillion.

206. Civic Biology. The study of bird life and related topics. Credit, three hours. Mr. Boetticher.

207. Zoology. Emphasis will be placed on the economic as well as the structural phases of this subject. Credit, three hours. Mr. Vermillion.

405. Plant Pathology. A study of the various organisms causing plant diseases. Credit, three hours. Mr. Boetticher.

412. General Science. A course intended to meet the needs of teachers of the subject. Both subject-matter and methods of presentation are considered. Credit, three hours. Dr. Matheny.

414. Methods in General Science. Credit, two hours. Dr. Matheny.

421. Plant Physiology. A course concerned with the living processes of plants. Credit, three hours. Mr. Vermillion.

CIVIL ENGINEERING*

The following courses will be offered, and arrangement may be made to take any of the courses at any hour between 7:00 and 12:00.

101. Mechanical Drawing. No previous knowledge of Mechanical Drawing is pre-supposed. Much attention is paid to lettering. The first semester's work consists of exercises in the use of the drawing instruments, geometric constructions, and orthographic projection. Sectional and auxiliary views are also studied. Two hours daily. Credit, two hours. Mr. Addicott.

102. Mechanical Drawing. A continuation of Course 101. Isometric and oblique drawings are studied with a view to their applicability in pictorial presentation. Detailed and assembly drawings of standard machines are made and dimensioned. Floor plans and elevations of houses are drawn to acquaint the student with the reading of blue prints. Tracings and blue prints of these plans are prepared by the student. Two hours daily. Credit, two hours. Mr. Addicott.

225. Mechanical Drawing. Some previous training in mechanical drawing is required of students registering for this course, which deals with the making of working drawings, sectional drawings, detail drawing, and blue prints. Two hours daily. Credit, two hours. Mr. Addicott.

*If enough students express a desire to continue work in Civil Engineering during the post session of three weeks, arrangements will be made for them to do so.

303. Mechanical Drawing. A more advanced course in drawing for those who desire to take up machine designing. Machine details, shafting, jigs, and fixtures are studied by making scale drawings. One hour daily. Credit, one hour. Mr. Addicott.

304. Mechanical Drawing. A continuation of Course 303 where drawings are prepared of both bevel and mitre gears, worm and wheel, plate and cylinder cams, and piping. One hour daily. Credit, one hour. Mr. Addicott.

306. Perspective Drawing. A study of the presentation of an object as it would appear on the plane when viewed from a point. The drawing of shades and shadows on objects and planes is also studied. Descriptive Geometry is a prerequisite to this course. One hour daily. Credit, one hour. Mr. Addicott.

COMMERCE

100. Introductory Accounting. This is a beginning course planned for those who have had less than two years of Bookkeeping in high school. The theory is presented by lectures and textbooks and it is applied in the solution of problems and in the writing of sets of books suitable for the simpler types of business. Six recitations per week. Credit, two hours. Mr. Fenzel.

302. Accounting. This course is open to students who have a grade of C or higher in Accounting 301. It is required of students who are graduated A. B. in Commerce. It is a further development of the theory of the subject. Practical problems illustrating the lectures and text book are assigned for solution. Credit, three hours. Mr. Beckert.

303. Accounting. This course is open to students who have a grade of C or higher in Accounting 302. This course is designed to give practice in solving accounting problems, involving more points of difficulty than are encountered in solving the problems presented in the sophomore courses. It is a further preparation for the more difficult problems presented in the senior course in C. P. A. Practice and Problems. Credit, three hours. Mr. Beckert.

306. Corporation Accounting. Open to students who have had Accounting 302. This course deals with the accounting connected with organization, financing, management, dissolution, and reorganization of corporations. Credit, two hours. Mr. Copeland.

316. Principles of Advertising. A survey of advertising is made by dealing with these major topics: (1) the general field of advertising; (2) the psychology of advertising; (3) making the advertisement; (4) the mediums available for advertising; (5) a criticism of advertising. The course is designed for those who wish to make a practical application of the principles of advertising and also for those who intend to teach advertising in the high school. Principles of Marketing is a prerequisite for those taking the A. B. in Commerce Course. Credit, three hours. Mr. Westbrook.

331. Banking Principles. The economics of money and credits reviewed as a basis for developing the principles which govern the operations of individual banks and the banking system. Principles are illustrated by discussion of the practical operations of different types of banking institutions and the leading banking systems. The course includes a critical analysis of the theory of bank credit and loan policy. Prerequisite, Economics 301. Credit, three hours. Mr. Hanson.

333. Principles of Business Finance. A survey of the characteristics of corporate securities is followed by problems dealing with promotion, organization, and the provision of capital, both for new enterprises and for the expansion of established concerns. Text and case material is used to bring out the economic and financial principles involved. Open to Juniors and Seniors. Credit, three hours. Mr. Hanson.

346. Principles of Marketing. This course will be devoted to a study of the principles, methods, and policies of marketing consumer's goods and industrial goods. It will involve a detailed study of the different marketing institutions and of the marketing functions performed by these institutions. Sophomore requirement. Credit, three hours. Mr. Paynter.

347. Marketing Problems. This course is a consideration by the case method of the problems facing the manufacturer, producer, and the various middlemen in the marketing system. Junior requirement. Prerequisite, Marketing 346. Credit, three hours. Mr. Paynter.

349. Selling and Sales Management. This course is a study in the marketing aspect of salesmanship and of the actual technique of selling. It includes a study of sales organizations and their problems such as distribution policies, marketing strategy, market objectives, the selection and training of salesmen, territories and quotas, stimulation and supervision of salesmen. Prerequisite, Principles of Marketing. Credit, three hours. Mr. Westbrook.

161. Stenography I. This is a beginning course in the Gregg System. Credit, three hours. Mrs. Brundage.

166. Typewriting I. Beginning class. One hour recitation and one hour of practice each day. Credit, two hours. Mrs. Brundage.

168. Typewriting II. This course is open to those who have completed Typewriting I or its equivalent. The work of this course covers: (1) the development of facility in the use of the typewriter; (2) office practice, in which training is given in the arrangement of letters, the writing of manuscripts, business papers, etc., in the use of the mimeograph, commercial duplicator, adding machine, and the simple correspondence filing. Classes meet six times a week. Credit, two hours. Mrs. Brundage.

190. Economic Geography. In this course a study is made of commercial conditions as they are found in various parts of the world as the result of certain physical and political influences, of the products of industries and commerce, and of the conditions of inter-dependence existing among different parts of the civilized world. Credit, three hours. Mr. Fenzel.

395. Full Time Office Work. Students in the A. B. in Commerce course may work eight to ten weeks in some bank or other important business office during the summer preceding the fourth year of their course. Semi-monthly reports are made of their experiences and a final thesis is required. Grades are based upon the reports, variety, and value of the experience, the thesis, and the employer's estimates. Credit, three-fourths hour per week where the employment continues less than ten weeks. Maximum credit, eight hours. Applications for assignment to work under this plan should be made to the Director of the School of Commerce not later than June 1, preceding the time of employment. Mr. Copeland.

397. Methods in Teaching Commercial Subjects. This course is designed to help the student in making the application of general principles of teaching to the teaching of commercial subjects. The course will include a study of the texts available in commercial subjects, of tests and measurements in commercial subjects, of objectives of commercial teaching in high school, of high school curricula, etc. Credit, two hours. Mr. Beckert.

ECONOMICS

301. Principles of Economics. The purpose of this course is to serve as a background for all other courses offered in this department. It is essential that the student meet these requirements before pursuing other studies such as Labor Problems, Business Cycles, Transportation, and the like. The following economical material will be presented: production, consumption, distribution, and exchange. Credit, three hours. Mr. Gubitz.

302. Principles of Economics. An effort will be made here to present the chief economic problem, i. e., money and banking, business cycles, credit, international economic relations, government and taxation, and economic control. This course is designed to meet the requirements of students from all departments regardless of specialty. Prerequisite, Course 301. Credit, three hours. Mr. Gubitz.

303. Current Economic Problems. A discussion of economic problems arising currently. Prerequisite, Courses 301 and 302. Credit, two hours. Mr. Gubitz.

EDUCATION

Special Education

Special facilities are offered by the Ohio University for the preparation of teachers of special classes. The professional curriculum for Special Education students centers about the courses listed below and is supplemented by courses offered by the College of Education and the College of Liberal Arts. A special class for exceptional children is maintained.

216. Curriculum and Methods for Special Classes. Topics: Types of curricula for Special Education Children: units of work, materials and subject matter suited to their mental ability and level: methods of presenting and handling such units for very young and older special types. This course may be profitable to anyone teaching a group of children with a wide range of mental abilities such as are often found in small city schools or rural schools. Observation period one hour each week from 8 to 11. Credit, three hours. Mrs. DeLand.

223. Diagnosis and Remedial Instruction in Elementary Subjects. This is a laboratory course in methods of diagnosis and remedial treatment of problem cases in the fundamental school subjects. Special emphasis will be placed on reading, spelling, and arithmetic. Each student will be assigned at least one study for the purpose of doing remedial work. Children of all grades of intelligence who are not doing work up to their capacity will be made subjects of study. This course may be taken with profit on the two hour basis so as to parallel and supplement the courses, 233 and 234, in student teaching during the summer quarter. It should be particularly helpful to students with teaching experience. Credit, two hours. Mrs. DeLand.

415. Organization and Management of Special Classes. Topics: need of Special Education; history of the various classes for Sight-Saving, Crippled, Hard of Hearing, Mentally Retarded, and Defective in Speech; selection and classification of children; methods of cooperation with other departments; case studies and record taking; direction and after-care work of special class children. Open to Seniors majoring in Special Education. Others by permission. Credit, three hours. Mrs. DeLand.

History, Principles, and Administration of Education

202. Activities for Early Childhood. Takes the place of former Education 202, 203, and 403. This course deals with the activities which will meet the individual and social needs of the kindergarten and primary child. It includes sources of activities; criteria for judging them; experience in planning and carrying them on; their analysis to determine the outcomes in habits, skills, attitudes, appreciations, and knowledge; comparison of present day use of activities with the formal use of subject-matter; the evaluation and selection of materials to carry on activities. Laboratory fee, \$3.00. Credit, three hours. Mrs. Quick.

250. Principles, Management, and Tests in Elementary Education. This course is planned to include the work of Courses 285, 262, and 267 in Education. During the summer session this course is open only to those students who have had teaching experience. Credit, six hours. Miss MacLeod.

261. History of Elementary Education. A course dealing with the development of the organization, curriculum, and the methods of teaching in the elementary schools. Credit, three hours. Dr. Gard.

262. Principles of Elementary Education. This is a synthesizing course intended for those who have enrolled for student-teaching or who have had student-teaching. The course includes a study of educational aims, values, principles, and methods based upon a democratic philosophy of education. The principles of the learning process and the principles of method are critically examined and related to the students' work in teaching. Open to Sophomores only. Credit, three hours. Dr. Beechel.

265. Teaching Reading in the Primary Grades. A course planned to acquaint the primary grade teacher with the principles of methods of training pupils to read. It deals with the period of preparation for reading, the initial period of reading instruction, the period of rapid growth in fundamental attitudes, habits and skills. Scientific investigations are examined for their results as applied to the work of teaching. Credit, two hours. Dr. Hansen.

266. Teaching Reading in the Intermediate Grades. As in Course 265 the work deals with the principles of methods of teaching pupils to read effectively in grades four, five, and six. It begins with a general summary of these early periods. Remedial work is an important point considered. Credit, two hours. Dr. Hansen.

267. Educational Tests and Measurements: Elementary and Junior High Schools. An introductory course dealing with the use of educational tests and scales in the elementary and junior high school grades. A study will be made of the problems involved in the administering and scoring of tests and in the interpretation of results. Sufficient attention will be given statistical

methods to enable the student to analyze data and to understand some of the more important processes of test construction. Open to sophomores, juniors, and seniors. Four recitations a week. Credit, two hours. Dr. Class.

285. Classroom Management. In this subject the mechanics of classroom procedure, such as organization, control, attendance, classification, promotion, the making of programs and reports, the keeping of records, teaching pupils how to study, the motivation of classroom work, types of the recitation, measuring the results of teaching, looking after the health of the pupils, and other routine factors are given careful consideration. In addition, throughout the course, special emphasis is placed upon classroom management as a social problem of large potential importance. Six recitations a week. Credit, three hours. Dr. Class.

407. Kindergarten-Primary Curriculum. A study of the principles underlying the selection and organization of the content of a curriculum for kindergarten-primary education; the factors to be considered in constructing a curriculum; the nature of the curriculum; evolution of the present day curriculum for kindergarten-primary grades; standards for evaluating curriculums formulated from the study of type curriculums; activities and units of work which may be included in a kindergarten-primary curriculum; the record summary in relation to the curriculum; practice in some phase of curriculum construction. Open to Juniors and Seniors in Kindergarten-Primary Education. Credit, three hours. Miss MacLeod.

436. Supervisory Practice. This course is for advanced students who wish to prepare for positions as critic teachers or supervisors. The purpose of the course is to provide experiences for the student in guiding the work of students who are doing practice teaching. The regular critic, or supervisor is also the classroom teacher in the rooms chosen for this work. The work will include the following duties: evaluating the work of children with student teachers; planning work; conducting conferences with individual student teachers and with groups; selecting and organizing units of professional work; and leading seminar discussions.

This course should parallel or follow Course 495, Training School Problems. Graduate students and Seniors who have had successful teaching experience may register for the course. Credit, two or three hours. Dr. Beechel.

461. Principles of Secondary Education. A course which considers the more fundamental principles operating in the organization, the curriculum, and the methods of teaching in our secondary schools. Credit, three hours. Dr. Gard.

472. History of Secondary Education. This course considers the place of secondary education in the development of modern western civilization. The secondary schools of the United States, France, Germany and England are studied. Credit, three hours. Dr. Gard.

475. Seminar and Minor Research in Education. Students will be directed in the investigation of selected phases of educational theory and practice. Open to advanced students. From two to six hours credit, depending upon the amount and quality of work done. Dr. Gard, Dr. Hansen, Dr. Beechel, Dr. Class.

485. School Administration. This is a general course in school administration treating the administration of schools from the viewpoint of the administrator and the board of education. The organization of state, county and city boards of education with their powers and duties constitute the first part of the course. The work of the schools as seen by the principal and superintendent constitute the remainder of the course. The course is open to Seniors who expect to engage in supervisory or administrative work. Credit, three hours. Dr. Morton.

486. Problems in School Administration. This is an advanced course treating intensively a few problems in school administration. The problems selected are determined by the interest of the class. Credit, two hours. Dr. Hansen, Dr. Sias.

487. High School Administration. This is a general course in the administration of the high school designed to meet the needs of students who expect to teach in the high school. The problems treated are taken up from the point of view of the high school teacher. Problems of school and class organization, discipline, grading, curriculum, extra-class activities and the like are treated from the teachers' viewpoint. May not be taken for credit by students who have had Course 285. Open to Juniors and Seniors. Credit, three hours. Dr. Benz.

491. The Supervision of Instruction. This is a theory course which deals with progressive methods of stimulating and guiding teacher-growth while in service. Administrative phases of supervision are given brief consideration. The burden of the course deals with democratic development of a supervision program with teachers in service in which methods of ascertaining needs, formulating the philosophy and principles underlying successful classroom teaching are studied. Techniques for improving instruction, (a) observation, (b) professional study, (c) conference, and (d) curriculum-making are considered. A minimum amount of practical work is given as a back-ground for considering supervisory problems. Open to Seniors and Graduates who are preparing for elementary supervision, elementary principalships, critic work, or the work of the superintendent. Credit, three hours. Dr. Beechel.

493. Vocational Guidance. This course will deal with the various phases of educational and vocational guidance. Open to Juniors and Seniors. Credit, two hours. Dr. Sias.

495. Training School Problems. This course is intended for critic teachers, demonstration teachers, and directors of student-teaching in teacher-training institutions, and for those desiring to prepare for such positions. It will be the purpose of this course to give consideration to the problems connected with the procurement, organization, and administration of demonstration and practice facilities. The following topics are representative of those which will be considered; the amount and kinds of laboratory facilities needed; the problems of securing laboratory facilities; the proper function of practice, demonstration, and experimental schools; the organization and training of the staff for such schools. Open to graduate students and to seniors who have had successful teaching experience. Credit, two hours. Dr. Class.

TEACHING AND OBSERVATION

231. Observation and Participation: Kindergarten-Primary. This course should be taken in conjunction with the course in Student Teaching, Kindergarten-Primary 233, with a total of seven hours credit. It may be taken alone by special permission of the Dean of the College of Education. The problems and topics for class discussion will grow out of the work observed. The course will involve a thorough acquaintance with the activities of the Kindergarten, the use of equipment and materials, and the planning of the work to meet the needs of the children. Credit, three hours. Dr. Sias.

232. Observation and Participation: Intermediate Grades. This course should be taken in conjunction with the course in Student Teaching, Intermediate Grades 234, or Special Education 237, with a total of seven hours of credit. It may be taken alone by special permission of the Dean of the College of Education. The problems and topics for class discussion will grow out of the classroom work. The course will involve a thorough acquaintance with the activities of the classroom, use of equipment and materials, and the planning of the work to meet the needs of the children. Credit, three hours. Dr. Sias.

432. Observation and Participation: Junior-Senior High School. This course or its equivalent should be taken as a prerequisite for, or during the same semester as Student Teaching, Junior-Senior High School, 433. This course is devoted to observation of the work of the secondary school with participation in the class activities for the various types of teaching. The student becomes acquainted with the school, pupils, teachers, and with the physical features of the teacher's work as specific preparation for student teaching. Credit, three hours. Dr. Sias.

438. Observation and Participation: Special Departments. This course is intended for students majoring in Art, Music, Commerce, Industrial Education or Physical Education. The observation in Commerce and Industrial Education will be taken in the secondary schools, using the same plan that is followed by those observing in Course 432. In Physical Education the time will be equally divided between the elementary and secondary fields. In Art and Music the time in observation is given largely to the work in the elementary field. The student will observe in the field of his major interest primarily. Limited observation in other fields may be provided in some cases in order to give the student some familiarity with teaching procedures in these fields. The chief purpose of this course is to give specific preparation for Student Teaching in the special field. This course, or its equivalent, should be taken as a prerequisite for, or during the same session as the course in Student Teaching in Special Departments, 435. Credit, three hours. Dr. Sias and Departmental Supervisors.

233. Student Teaching: Kindergarten-Primary. Students who are in Kindergarten-Primary Education do their student teaching in both the kindergarten and the primary grades. Student Teaching 233, four hours credit, should be taken in conjunction with Observation and Participation, Kindergarten-Primary 231, three hours credit, making a total of seven hours. Students who are preparing to teach in the primary grades should take Student Teaching 233 combined with Observation 231 in either the first or the second

grade in one session. In another session they take 233a, two hours credit, in the kindergarten. Students who are preparing to teach in kindergarten should take Student Teaching 233 combined with Observation 231 in the kindergarten, and in another session take 233a, two hours credit, in either the first or the second grade. Students are expected to share with the supervising critic the responsibilities of the classroom and become an integral part of the life of the group with which they work. Credit, four hours. Dr. Sias.

233a. Student Teaching: Kindergarten-Primary. This course in student teaching is taken by the students in Kindergarten-Primary Education in a different session from that in which they take Student Teaching 233, following the plan indicated under 233. Students will participate one hour daily in the activities of the classroom and will attend conferences with the supervising critic. Credit, two hours. Dr. Sias.

234. Student Teaching: Intermediate Grades. This course should be taken in conjunction with the course in Observation and Participation, Intermediate Grades, 232, with a total of seven hours of credit. It may, however, be taken separately if Observation has already been completed. Students are expected to share with the supervising critic the responsibilities for the work of the classroom and become an integral part of the life of the group with which they work. Credit, four hours. Dr. Sias.

237. Student Teaching: Special Education. This course affords an opportunity for student teaching in special classes under supervision and criticism. The work should be taken in conjunction with Observation and Participation, 232. Credit, four hours. Dr. Sias and Mrs. DeLand.

430. Advanced Student Teaching: Kindergarten-Primary. This course is for seniors who are taking a four-year course with a major in Kindergarten-Primary Education. The student will teach one or two hours daily for one session. The course will be characterized by careful evaluation of the results of the student's teaching and frequent conferences with supervisors. Credit, two or four hours. Dr. Sias.

431. Advanced Student Teaching: Intermediate Grades. This course is for seniors who are taking a four-year course with a major in Elementary Education. The student will teach one or two hours daily for one session. The course will be characterized by careful evaluation of the results of the student's teaching and frequent conferences with supervisors. Credit, two or four hours. Dr. Sias.

433. Student Teaching: Junior-Senior High School. This course is for the student who is in the senior year of a four-year course directed toward Junior or Senior High School teaching, and who has met the requirements of the College of Education for student teaching. It is expected that the student will teach in the department in which he has his major. The student should secure the recommendation of the head of the department in the University in which he wishes to do student teaching. Blanks for this purpose may be secured at the office of the Director of Teacher Training. Credit, four hours. Dr. Sias.

435. Student Teaching: Special Departments. This course includes student teaching in either Art, Music, Commerce, Industrial Education, or Physical Education.

Student teaching in Art is open to students having credit in advanced design, art structure, methods of teaching art and observation of art teaching.

Student teaching in Music is open to seniors in the Music Education Department who have completed Music Observation 438, and who have had ample preparation in music.

Student teaching in Physical Education for men and women includes student teaching in the elementary and secondary schools and playground work. Credit, two or four hours. Dr. Sias and Departmental Supervisors.

Note—All students who are eligible to do student teaching must present themselves to the Director of Teacher Training on the first day of registration for the Summer Session.

ENGLISH LANGUAGE AND LITERATURE

303. Survey of English Literature (to 1744). The emphasis of the course is on the historical developments and types of English literature. Prerequisite, Courses 101 and 102 or their equivalent. Credit, three hours. Mr. McQuiston.

304. Survey of English Literature. A history of English literature from 1744 to the present day. The emphasis of the course is on the historical development and the types of English literature. Credit, three hours. Mr. Peckham.

307s. Modern American Literature. A survey of American literature since 1870. Not open to those who have had Courses 307 and 308. Credit, three hours. Mr. McQuiston.

312b. Modern Drama. A study of modern and contemporary American and European plays. The texts used are *Dickinson's Chief Contemporary Dramatists, First and Second Series*. Among the dramatists read are Wilde, Pinero, Jones, Galsworthy, Yeats, Synge, Moody, Hauptman, Strindberg, Maugham, Ervine, Rostand, Schnitzler, d'Annunzio, and Gorki. This course alternates with 312a, which was given in the summer of 1932. Credit, two hours. Dr. Chubb.

320. Recent British Poetry. A study of the work of the most representative English and Irish poets of the present century. Prerequisite, Courses 101 and 102 or their equivalent. Credit, two hours. Mr. Peckham.

322s. Tennyson and Browning. A rapid survey of Tennyson's work in general, followed by a study of *In Memoriam*. A study of some of the most representative poems of Browning. Credit, three hours. Mr. Peckham.

326. The Short Story. A historical and critical study of the short story. Credit, two hours. Mr. McQuiston.

201. English Composition. Required in the College of Education. Emphasis is placed upon practice in composition and upon methods of teaching the subject. Credit, three hours. Dr. Foster, Dr. Heidler.

202. English Composition. Required in the College of Education. A continuation of Course 201. Credit, three hours. Dr. Caskey.

204. English Poetry. A study of the poetry from 1798 to 1890. Credit, three hours. Dr. Wray.

205. American Prose. Selected material from Franklin, Poe, Hawthorne, Emerson, Thoreau, Lowell, and Holmes. Credit, three hours. Dr. Wray, Dr. Heidler.

206. English Essay. Material is selected from the representative English essayists of the Victorian period. Credit, three hours. Dr. Caskey.

208. Juvenile Literature. A study of myths, fables, fairy tales, suitable poems, and one epic. A discussion of methods. Credit, two hours. Miss Kahler.

226. The Teaching of Language in the Middle Grades. A study of the content and presentation of composition, grammar, and spelling in grades three to six. Credit, two hours. Dr. Foster.

408. Methods of Teaching Composition in the Junior and Senior High Schools. Credit, two hours. Dr. Wray.

409. Literary Appreciation. A study of the essentials of poetry and of current movements in literary criticism relating to it. Credit, two hours. Dr. Wilson.

***413. Dante (in English).** A study of the *Divine Comedy* as given in Cary's translation. Credit, two hours. Dr. Wilson.

415. Eighteenth Century Literature. A study of the literary history of the period to the age of Johnson and of some representative poetry and prose of the time. Credit, two hours. Dr. Wilson.

GEOGRAPHY AND GEOLOGY

The location of Ohio University and its surrounding geographical environment are especially well adapted to the teaching of Geography and Geology. Hills, rivers, rocks, caves, mines, factories, and soil conditions make many practical field trips possible. Your attention is especially directed to the field trip described in the front of this bulletin.

203. Geography and Environment. A practical and cultural course which develops the relationship and adjustment of man to his geographic environment. When followed by any other course in geography except the methods courses, it fulfills the science requirement in the four-year courses of both the College of Education and the College of Liberal Arts. Juniors and seniors or previous work in college geography. Six recitations a week. Credit, three hours. Dr. Cooper.

207. Geography and Methods for Upper Grades. A general course in methods for teaching and in professionalized subject matter such as is used from the sixth grade through the senior high school. Six recitations a week and several field trips. Credit, three hours. Dr. Cooper.

209. Geography of South America. A course which will develop a method for teaching the geography of a continent as well as supply the necessary knowledge of content for South America. Credit, three hours. Mr. McKim.

214. Geography and Methods for Lower Grades. A general course in methods and professionalized subject matter as used from grades one to five inclusive. Six recitations a week and several field trips. Credit, three hours. Miss Atwood.

*The attention of the student is called to Italian 101.

401. Geography of Ohio. The geography of Ohio will be developed from the regional point of view. Primarily for Juniors and Seniors. Credit, two hours. Dr. Cooper.

402. Conservation of Natural Resources. This course concerns itself with the vital problems of the conservation of our soils, minerals, forests, and inland waters. Credit, two hours. Miss Atwood.

403. Weather and Climate. A thorough understanding of weather and climate is necessary for the appreciation of the adjustments of man to his environment. Credit, three hours. Mr. McKim.

404. Geography of Asia. This course develops in detail the geography of the natural resources and the economic and industrial conditions of Asia and its islands. It presents a method of continental study of much value to teachers. Credit, three hours. Miss Atwood.

408. Research in Geography. Problems in Geography are assigned to majors in the Department who wish to do research work. Credit, one to two hours. Dr. Cooper.

409. Geology, Physical. A cultural and practical course in Physiographic Geology. Credit, three hours. Mr. McKim.

416. Cartography and Graphics. Laboratory work in map drawing and graph making. Credit, one or two hours. Dr. Cooper, Mr. McKim.

GERMAN

***101s. Beginning German.** This course covers the work of the first semester of German in Ohio University. It affords instruction in the fundamental principles of grammar, drill in pronunciation, conversation, and the reading of easy German prose. Credit, three hours. Mrs. Matthews.

***102s. Beginning German.** Continuation of Course 101. This course is designed for those who have had one semester's work in German at the University, or one year in the high school. It comprises a thorough review of German grammar and pronunciation, a considerable amount of reading, and some conversation. Credit, three hours. Mrs. Matthews.

303s. Intermediate German. This course is planned for students who have had one year or more of college German, or two or more in the high school. It will be of such a nature as to fit the needs of those desiring either semester of second year German in Ohio University, or work in addition to the regular second year in college, and will not duplicate other courses given previously. Systematic training will be given in pronunciation, reading, translation, and formal composition. Credit, three hours. Mrs. Matthews.

Note. Students who have already had sixteen hours of college German and wish to take Course 303s for three hours credit, must also attend Course 320, but will receive no credit for this latter course. Course 320 taken without Course 303s gives a one hour credit.

320. Advanced German Prose. Open to students who have had two or more years of college German. Literary and historical essays will be read. This course is especially valuable for students majoring in German or in history. (Offered only in the summer.) Credit, one hour. Mrs. Matthews.

*The course in larger demand will be given.

HISTORY AND GOVERNMENT

101. Medieval European History. Open to all students. An introductory course. Informal talks by the instructor. Class discussions. Credit, three hours. Dr. Harris.

102. Modern European History. Open to all students. Credit, three hours. Mr. Mauck.

310. English History Since 1485. Open to Sophomores, Juniors, and Seniors. A general, introductory course. Credit, two hours. Dr. Harris.

321. Pro-Seminar in European History. An introduction to the methods of historical investigation. Open to a limited number of Juniors and Seniors. Credit, two hours. Mr. Mauck.

323. History of Civilization. Beginning with the theories of the origin of the earth and of man, this course traces the evolution of culture from savagery to barbarism and from barbarism to the earliest civilizations of Egypt, the Tigris-Euphrates valley and the Aegean. From thence it carries the story of civilization down to the present day. It is believed that a broad survey of this kind will prove useful to those intending to specialize in the social sciences and that it will also be of value to those students whose interest in other fields leaves little time for extensive work in history. Open to Sophomores, Juniors, and Seniors. Credit, three hours. Dr. Harris.

325. Current International Problems. An introduction to the study of international relations, with emphasis on world problems of current interest. Credit, three hours. Mr. Mauck.

201. American History. The political, social, and economic development of the United States from the colonial period through the Civil War. Credit, three hours. Miss Field.

202. American History. Continuation of Course 201, with special emphasis on recent history of the United States. Credit, three hours. Mr. Hoover.

204. American Government. The organization and administration of state and local governments, with the government of Ohio used for purposes of illustration. Credit, three hours. Dr. Smith.

211. Teaching History in Elementary Schools. The development of history instruction in the schools; objectives and outcomes; methods and materials for the several grades; testing results; some school problems related to history teaching. Credit, two hours. Dr. Smith.

406. Constitutional Law. The text and case methods are used. All the leading cases on the subject are abstracted. Credit, two hours. Mr. Hoover.

412. Teaching History in Junior and Senior High Schools. The development of history instruction; objectives; selection and organization of materials; methods of procedure; types of work; history tests; relation of other social subjects to history. Credit, two hours. Dr. Smith.

415. History of American Political Parties. The origin and growth of national parties; influence of economic and social conditions on party policy; recent party developments. Credit, three hours. Mr. Hoover.

427. Research in American History and Government. A course primarily for graduate students. Problems in American history and government; the methods of procedure, sources of material, and the preparation of the thesis. Credit, one to three hours. Dr. Smith.

HOME ECONOMICS

The work of the Department of Home Economics is planned primarily for teachers in the elementary and secondary schools, and for those who wish to prepare for adult educational work in the field of business. Those who graduate from the course may prepare for dietitian service in three to six months' additional training in hospitals. The suggested course in Institutional Management offers preparation for commercial work in tea rooms, restaurants and school dormitories.

202. Foods and Nutrition. Preparation of food and study of food combinations. Value of typical foods in the diet. Energy, protein, mineral and vitamin requirements of body are considered. Consideration of cost in relation to food value. Planning, preparation and serving of well balanced meals. Social customs in relation to serving food. Laboratory fee \$2. Credit, four hours. Miss Patterson.

252. Textile and Consumer Buying. One hour lecture and two hours laboratory. Study of textiles as to fibre, manufacture, and use. Hand loom weaving. Laboratory fee \$1. Credit, three hours. Miss Morse.

411. Problems in Teaching Home Economics. This course will include a study of what to teach; a survey of pupils and their environment, their individual differences, their activities, problems, interests, social needs, desirabilities, attitudes, standards and concepts; a survey of schools, working conditions, and equipment of Home Economic laboratories; a study of organization of instruction material, courses of study, grade placement, and evaluation of the program of Home Economics; consideration will be given to professional standing and improvement. Credit, three hours. Miss Patterson.

415. Quantity Cookery. Practice given in handling foods in quantities. Institutional and commercial problems considered. Field work in college dormitories and cafeterias and in institutions cooperating with the college in offering supervised practice. Credit, three hours. Dr. Phillips.

417. Home Management. Practical problems involving the use of time, energy, and money as economical and social factors in personal and home living are based upon experience in the home management house. Credit, four hours. Dr. Phillips.

422. Dietetics. A study of the fundamental principles of nutrition with special emphasis upon the nutritive value of foods and the four main factors of nutritive requirements of man,—energy, protein, mineral elements, and vitamins. The course includes practical application of these principles to the feeding of individuals and families under varying physiological economic and social conditions. Laboratory fee \$2. Credit, three hours. Dr. Phillips.

457. Economics of Clothing. One hour lecture, two hours laboratory.

Study of clothing of today relative to market quality, method of making, cost, fashion trend. Problems in drafting block pattern and in construction of garments from wool and silk. Laboratory fee \$1. Credit, three hours. Miss Morse.

459. Home Planning. Practical applications of the principles of design and sanitation and of the theory of color are employed in studying the problems of planning and furnishing homes which fit our social and economic needs. Credit, three hours. Miss Morse.

INDUSTRIAL EDUCATION

201. Wood Working. Class and laboratory work. A study of tool problems, and methods of presenting elementary wood work. Six double periods a week. Credit, three hours. Mr. Grones.

202. Wood Working. A continuation of 201. Six double periods a week. Credit, three hours. Mr. Grones.

206. Wood Turning. Laboratory course. Practice in various types of turning. Six double periods a week. Credit, three hours. Mr. Kinison.

209. Cabinet Making. Laboratory course. For advanced students or those who have had some experience in hand tool work. Two hours daily. Six days a week. Credit, three hours. Mr. Grones.

210. Cabinet Making. Laboratory course. A continuation of 209. Credit, three hours. Mr. Grones.

216. Constructive Design. The work of this course is the designing of problems suitable for grade school pupils, for high school pupils, and for advanced students. Special attention is given to proportion and to the ability of the pupil to construct the project. Credit, two hours. Mr. Grones.

227. Sheet Metal Work. Recitation and laboratory four hours. The problems of this course deal with the cutting, forming, soldering, and riveting of materials used in sheet-metal construction. The development of sheet-metal patterns is an important phase of the work of this course. Credit, two hours. Mr. McLaughlin.

230. Home Mechanics. Class and laboratory, six hours. The following hand activities will receive attention: carving, inlaying, caning, art fiber weaving, glazing, plumbing, electricity, and soft metal work. The work will be conducted on the general shop plan. Credit, two hours. Mr. Kinison.

412. Shop Methods and Equipment. Class work. A detail study of arrangement, care, treatment and buying of industrial education equipment and supplies. Credit, two hours. Mr. McLaughlin.

414. Machine Shop. Laboratory course, twelve hours. The work includes filing, straight and taper turning, eccentric turning, chuck work, face plate and inside turning, thread cutting on machine and by hand, polishing, shaper work and care of lathes. Credit, two hours. Mr. Bjornstadt.

420. Methods of Teaching the Manual Arts. Class work. A study of shop room methods, lesson plans, problems and equipment. Six recitations a week. Credit, three hours. Mr. McLaughlin.

440. Printing. Class and laboratory, ten hours. Practice in the setting of type, imposition, proofreading, correction of proofs, and the operation of presses. Class work includes a study of the history of printing, the manu-

facture of paper, the kinds of paper stock, printers' inks, type faces, and typographic design. Credit, three hours. Mr. Kinison.

441. Printing. Class and laboratory, ten hours. A continuation of Course 440. Credit, three hours. Mr. Kinison.

JOURNALISM

335. Reporting Practice I. Problems in gathering and writing news under actual newspaper conditions will be met by students who will be assigned to general reportorial work on *The Athens Messenger*. Hours will be arranged for each individual after permission to enter the course is secured. Credit, two or three hours. Mr. Smiley.

336. Reporting Practice II. This may be elected only by students whose work in Reporting Practice I has been satisfactory. A student will be permitted as far as possible to specialize in the particular field of reporting he desires. Credit, two or three hours. Mr. Smiley.

337. Reporting Practice III. Credit, two hours. Mr. Smiley.

351. Editing Practice I. Students will be assigned for copyreading on *The Athens Messenger*. Hours will be arranged for each individual after permission to enter the course is secured. Credit, two or three hours. Mr. Smiley.

352. Editing Practice II. Students will be assigned for advanced copyreading on *The Athens Messenger*. Hours will be arranged for each individual after permission to enter the course is secured. Credit, two or three hours. Mr. Smiley and Mr. Harris.

LATIN

125. Cicero—Selected Works. The reading of some of the more important orations of Cicero which are not commonly read in high school, and selections from some of his other works which are of particular interest to teachers of high school Latin. Intended to provide a broader background of acquaintance with this great orator and writer. Also an opportunity for those who feel the need of an accredited review course. The work will be graduated to meet the needs of each individual. Credit, three hours. Mr. Hill.

318. The Teaching of Latin. Lectures and discussions on methods of teaching Latin, on the relation of Latin to English, on determining the comparative merit and choice of textbooks, and on important reference material for teachers of high school Latin. Some study of important principles of the language with the reading of portions of Caesar in illustration. Credit, two hours. Mr. Hill.

322. Ovid, The Fasti and Selections from the Metamorphoses. The first book of the *Fasti* will be read in its entirety, both for content and for the light it throws on the beginning of Roman religion. Selections from the other books of the *Fasti* and from the *Metamorphoses* will also be read for a more comprehensive understanding of the Roman religious calendar and a first hand acquaintance with one of our richest sources of classical mythology. Elementary principles of textual criticism will be included in the first half of the course. Credit, three hours. Mr. Hill.

340. Special Work in Latin. This is intended to take care of the special needs of senior college or graduate students. Individual work will be done under careful guidance. Those interested should consult the instructor. Credit, one to three hours. Mr. Hill.

MATHEMATICS.

101. College Algebra. A short review of factoring, fractions, simple equations, theory of exponents, followed by the theory of quadratic equations, progressions, infinite series, and the theory of equations. Credit, three hours. Dr. Starcher.

101a. Plane Trigonometry. The definitions of the trigonometric functions and the relations among them; the addition theorems, functions of the double and half angles; computations with logarithms and the solutions of oblique triangles. Courses 101 and 101a are to be taken together except in cases where credit has already been secured in one of them. Credit, two hours. Dr. Starcher.

105. College Geometry. This course is an extension of the geometry ordinarily given in the high school, and includes a development of modern geometry. It provides excellent training for those intending to teach mathematics in high school, and a discipline of value to any student of mathematics. The only prerequisite is high school geometry. The subject matter comprises problems of construction, geometric loci, similar and homothetic figures, orthogonal circles, poles and polars, the problems of Apollonius, coaxial circles, and the problems of inversion. Credit, three hours. Dr. Starcher.

207. Teaching Arithmetic in the Primary Grades. In this course consideration is given to methods of teaching the subject matter of the Arithmetic curriculum in grades one, two, and three. The results of experimental studies and of recent developments in Educational Psychology are incorporated. Credit, three hours. Dr. Morton.

209. Teaching Arithmetic in the Intermediate Grades. This course deals with methods of presenting the subject matter of the Arithmetic curriculum in grades four, five, and six. It includes the result of experimental investigations. Standardized tests and mechanical drill devices are briefly treated. Credit, three hours. Dr. Benz.

404. Teaching Mathematics in the Junior High School. The development of a course of study that shall provide for the completion of Arithmetic and an introduction of Elementary Algebra, Plane Geometry and a few fundamental principles of Trigonometry is provided for. The main emphasis of the course, however, is upon methods of teaching Mathematics in the junior high school. Credit, three hours. Dr. Benz.

409. Statistics. Advanced students in Education and Psychology are frequently called upon to organize and interpret large groups of quantitative data. The purpose of this course is to present effective methods of dealing with statistics. The department is equipped with an electrically driven calculating machine, sets of calculating tables, logarithmic tables, a small reference library and an adding machine. Credit, three hours. Dr. Morton.

MUSIC

103. Freshman Harmony. Formation of major and minor scales; intervals, triads and their relations in close and open positions; harmonizing of melodies; inversions, cadences, sequences, passing and auxiliary notes; original work. Credit, two hours. Mr. Kresge.

104. Freshman Harmony. Continuation of Course 103. Credit, two hours. Mr. Kresge.

Of the two courses in Harmony, the one meeting the greater demand will be given.

113. Music History. The subject matter of this course is that which is presented during the first semester of the academic year. General development of music from the primitive and ancient peoples. Early Christian music, Polyphonic music and the beginnings in dramatic and instrumental music. The different types and styles of music are illustrated by the victrola or by performance in voice and instruments by members of the class, and others. Frequent incidental reports on contemporary music. Credit, two hours. Miss Cutler.

114. Music History. Continuation of Course 113. Further development of Polyphonic music, culminating in Bach, and the expansion and development of dramatic and instrumental music through the 18th Century. Class illustration. Reports on present day music. Credit, two hours. Miss Cutler.

Of the two courses in Music History, the one meeting the greater demand will be given.

311. Analysis and Form. Detailed structural and harmonic analysis of musical compositions; monophonic and polyphonic analysis. Material used: The Hymnal, Songs Without Words, etc. Prerequisite, Courses 103-104, or the equivalent. Credit, two hours. Mr. Robinson.

312. Analysis and Form. Continuation of Course 311. Credit, two hours. Mr. Robinson.

Of the two courses in Analysis and Form, the one meeting the greater demand will be given.

201. Music Fundamentals. A fundamental course in music involving elementary theory, ear training, tone production, and sight singing. Class, eight hours a week. Credit, two hours. Miss Danielson, Miss Wilhite.

206. Ear Training and Sight Singing IV. For majors in the department of Music Education who have completed Courses 203, 204, and 205 or their equivalent. Class, eight hours a week. Credit, two hours. Miss Blayney.

211. Music Methods for Grade Teachers. This course is designed for those who plan to teach in the elementary schools, and is not open to majors in the department. Class, four hours a week. Credit, one hour. Miss Blayney.

221. Music Appreciation. For majors in the department of Music Education. Gives the student a musical background and considers the presentation of appreciation work in both elementary and high schools. Class, six hours. Credit, three hours. Miss Wilhite.

227. Campus Orchestra. A laboratory course for instrumental majors but open to any student on the campus who meets the requirements of the try-out. Increased facility in ensemble playing is the aim. Credit, one hour when taken for credit. Mr. Ingerham.

406. Conducting II. A continuation of Course 405. Choral and orchestral material suitable for use in elementary and high schools is considered. The theory and practice of conducting. Organizing and conducting of choruses, glee clubs, orchestras, and bands will be topics for discussion. Class, four hours a week. Credit, two hours. Miss Danielson.

408. Music Methods for Junior and Senior High Schools. A course for juniors in the department of Music Education. Principles of music education as they relate to pupils of high school age. Administrative and supervisory problems. Class, six hours. Credit, three hours. Miss Danielson.

415. Music Systems. A comparative study of the various music systems in general use. Class, two hours. Credit, one hour. Miss Blayney.

431. Methods of Instrumental Instruction. A study of class methods employed in the teaching of stringed, brass, and woodwind instruments. Problems of school orchestras and bands and instrumentation pertaining to instruments used by these groups. Class, six hours. Credit, three hours. Mr. Ingerham.

Band Instruments. Private instruction in woodwind and brass instruments according to the individual ability of the student. Credit, one hour for two lessons a week. Mr. Janssen.

Organ. Private instruction in organ for those having the required proficiency in piano. Credit, one hour for two lessons a week. Mr. Kresge.

Piano. Private instruction in pianoforte according to the individual ability of the student. Credit, one hour for two lessons a week. Miss Witham, Mr. Kresge.

Violin. Private instruction in violin according to the individual ability of the student. Credit, one hour for two lessons a week. Mr. Ingerham.

Voice. Private instruction in all phases of voice culture, repertoire, etc. Credit, one hour for two lessons a week. Miss Cutler, Mr. Robinson.

Practice hours in Organ, Piano, Band Instruments, and Voice should be secured from Professor Robinson at registration time.

Application for membership in the University Chorus should be made to Professor Robinson on Registration day. The first meeting of the Chorus will be Tuesday, June 13, at 1 p. m. in Memorial Auditorium.

PHILOSOPHY

303. Introduction to Philosophy. An elementary treatment of the chief problems of philosophy. Such questions as the following will be discussed: The meaning of philosophy; the relation of philosophy to the sciences, to religion and to life; the nature of experience and knowledge; God, the soul, good and evil, human freedom, and immortality; the meaning of such present-day philosophies as evolutionism, realism, idealism, materialism, and pragmatism. The course is designed to introduce the student to the most interesting features of serious human thought and to put him in possession of the fundamental ideas necessary for forming a satisfactory philosophy of life. Credit, three hours. Dr. Gamertsfelder.

309. Logic. An introductory course in the principles and methods of sound reasoning as employed in the special sciences and in exposition and argumentation generally. Attention is given to the different kinds of inference,

to the meaning and forms of explanation, and to the nature of truth. Credit, three hours. Dr. Gamertsfelder.

PHYSICAL EDUCATION

Men

261. Freshman Physical Education. (Required of all freshmen.) One hour each week is given to health education. The student reports twice a week to his physical education class and once to his assigned health class. The regular gymnasium periods are given over to games, sports, self testing activities and the development of fundamental skills. Credit, one hour. Mr. Grover.

262. Freshman Physical Education. (Required of all freshmen.) Health Education is not included in this course. The physical education periods are largely a continuation of those in 261, with emphasis on organized play. The following activities make up the class work: basketball, volleyball, baseball, track and field and practice in the Ohio Pentathlon. Credit, one hour. Mr. Trautwein.

263. Sophomore Physical Education. (Required of all sophomores.) Students are permitted to elect activities in which they are interested and in which there is instruction. Emphasis is placed on individual and team instruction. Activities are offered as follows: soccer and volleyball; boxing and wrestling; indoor baseball and handball; cross-country and indoor track. Six hours a week. Credit, one hour. Mr. Grover.

283. Personal Health. The object of this course is to provide students with a fundamental knowledge of the source of material and an appreciation of the means whereby the health of the individual and of the group may be improved. Credit, three hours. Mr. Herbert.

405. Physical Education Practice. Recreational games, mass athletics, athletic and clog dancing. Credit, one hour. Mr. Peden.

406. Physical Education Practice. Tumbling, stunts, and elementary apparatus work. Credit, one hour. Mr. Trautwein.

415. Athletic Training. This course is concerned with the administration of first aid, and emergency treatment of common athletic and other injuries. Emphasis is also placed on those problems concerned with the safeguarding of the health of participants in elementary, secondary school and college athletics. Credit, two hours. Mr. Herbert.

***416. Methods in Coaching.** Coaching of basketball. Four-week Session. Credit, two hours. Mr. Grover.

***417. Methods in Coaching.** Coaching of football. Four-week Session. Credit, two hours. Mr. Peden, Mr. Trautwein.

***418. Methods in Coaching.** Coaching of baseball. Four-week Session. Credit, one hour. Mr. Peden.

***420. Methods in Coaching.** Coaching of track athletics. Four-week Session. Credit, one hour. Mr. Herbert.

423. Swimming. Includes life saving and fancy diving. Credit, one hour. Mr. Herbert.

*Four-week Session.

Men and Women

207. Physical Education Methods. A course dealing with methods in physical education for elementary and secondary schools. Credit, one hour. Required of all two-year students. Not required of majors. Mr. Bird.

281. Principles of Health. This course deals with personal, school and community health; is designed especially for teachers, to assist them in carrying out health educational programs in their schools. It is open to two-year course students. Credit, three hours. Miss Druggan.

***412. Theory of Play and Games.** This is a study of the important theories of play. Play programs for schools, recreation centers and playgrounds. Later part of course devoted to the practice of games. Four-week Session. Credit, two hours. Mr. Bird.

***422. Organization and Administration.** Physical Education in elementary and secondary schools, colleges and normal schools; athletic managements; intramural, interscholastic and intercollegiate athletics. Credit, two hours. Four-week Session. Mr. Bird.

Women

261. Freshman Physical Education. Games, floor work and dancing. Daily. Credit, one hour. Miss Hatcher.

261s. Swimming. Daily. Credit, one hour. Miss LaTourrette.

263. Sophomore Physical Education. Swimming and dancing. Daily. Credit, one hour. Miss Hatcher.

264. Sophomore Physical Education. A continuation of 263. Daily. Credit, one hour. Miss LaTourrette.

211. Essentials of Scouting. The purpose of the course is to prepare girl scout leaders. The work will consist of observation, practical work and assigned readings. Credit, two hours. Miss LaTourrette.

217. Coaching of Basketball. Theory and practice of coaching basketball, including lead-up games. Credit, one hour. Miss Hatcher.

PHYSICS AND ELECTRICAL ENGINEERING

The Department of Physics offers in the summer session courses to meet varying needs, as follows: (a) the regular first semester freshman course, giving three units—or four units, when taken with the laboratory work—to apply on medical school requirements, or on the six hours required in Physical Science for graduation, or to afford the opportunity to teachers of the subject to acquire a better knowledge of physics than they already possess; (b) a course in the methods of teaching physics, for teachers and prospective teachers of physics in the high school; (c) a popular elementary study of the apparatus, methods, and principles of radio reception, for anyone owning a radio set, or interested in the subject in any way—no prerequisites; (d) an advanced course in electrical communication for senior engineers and others who may be qualified; a second semester course offered in the summer to lighten the load for engineers in the last semester of the senior year; (e) engineering and executive relations; a course in the fundamentals of manage-

*Four-week Session.

ment, including some of the human problems (human engineering) involved in executive control; (f) a course in cultural physics, no problems, no laboratory work—a purely descriptive and demonstration course with Physical Science credit.

101. This Physical World. This is a course carrying credit toward the Physical Science requirement, and offering to students and teachers the opportunity of learning about the phenomena, the hows and the whys and the physical nature of the world about us.

There are no prerequisites, no problems, and no laboratory exercises. It is a descriptive course with an abundance of interesting class demonstrations. Credit, three hours. Mr. Atkinson.

103a-104a. Physical Laboratory. Corresponding to the class course 104 given this summer, and to 103 given last summer. Fifteen well-chosen experiments in each course. Two two-hour laboratory periods each week. Credit, for each course, one hour. Mr. Green.

104. Freshman and Premedic Physics II. Class discussions, demonstrations, and problems on the topics of electricity, magnetism, sound, and light. Arranged for those with or without a high school course. This course applies on the premedic requirements, or the general college requirement of six hours of Physical Science; also for high school teachers and others desiring a somewhat more thorough course, though still elementary. One hour daily. Credit, three hours, or with Course 103a, four hours. Mr. Atkinson.

106. Elementary Radio. At the present time there is a widespread interest in radio telephone communication, and among those who own radio sets or who expect to own them, and among those, as well, who merely "listen in" occasionally, there are many who wish to know more of the "why" and the "how" of those mysterious waves which so completely occupy the ether through the night and the day hours. To all such this popular course is offered.

The course considers in an elementary way the apparatus for reception, the methods in practice and the fundamental principles involved in radio reception of speech and music. Also a brief consideration is given to methods and principles of transmission.

Some of the particular subjects covered are: the simple receiving circuit; action of crystal detectors; a study of the construction and operation of the vacuum tube; amplifying speech or music; regenerative and heterodyne reception; neutralization; operation of radio sets directly from the house lighting circuit. Credit, two hours. Mr. Green.

106a. Radio Laboratory. Designed to show the practical application of the principles discussed in Course 106. The work includes the construction and operation of at least one set. Measurements of wave length, calibration of a wave meter, determining the working characteristics of both crystals and vacuum tubes, etc. It is advisable to take this course at the same time as the theory course. Two two-hour laboratory periods a week. Credit, one hour. Mr. Green.

304. Methods in Physics. A course in the teaching of physics. Recitations and discussions on the value of physics as a study, and on its place in the curriculum; objectives in teaching physics in the high schools; selection of subject matter and order of treatment; method of approach in teaching

beginners; the place of class demonstrations and the selection of proper apparatus; the relative importance of laboratory work and the type of experiments to be used; the organization of the laboratory, the planning of the course, and the selection and purchase of equipment. Students should have at least one course in physics. Credit, two hours. Mr. Atkinson.

344. Electrical Communication. This is an advanced course in the principles underlying electrical communication at both radio and telephone frequencies.

The treatment includes consideration of network theorems, resonance, the infinite line, filters, coupled circuits, impedance matching, vacuum tubes as detectors, amplifiers and oscillators and radiation of electromagnetic waves in such problems as field intensity measurements and antenna radiation resistance. These topics are treated from the broad fundamental principles from which specific applications may be drawn for use in radio and telephony. This is a course for senior engineers or others who have had equivalent preparation. Prerequisites, Physics 305, 305a, 306, 306a, Calculus 303, 304. Credit, three hours. Mr. Green.

313a. Radio Laboratory. An experimental course in radio engineering, including the measurement, under varying conditions, of the characteristics of three electrode tubes as detectors, and as amplifiers; measurement of amplifying factors, plate resistances, etc. Two two-hour laboratory periods a week. Credit, one hour. Mr. Green.

339 or 340. Engineering Relations. These are the first and second semester courses in engineering management, regularly given in the senior year. They cover (a) historical relations; (b) legal responsibilities; (c) public relations—spread of knowledge, good service, good will, reasonable rates; (d) internal relations—physical set-up, financial structure, special problems of management; (e) the human problems in engineering—the principles growing out of experience in organizing men in power enterprises, providing for their comfort, convenience and safety, so as to secure better personal relations and more efficient performance. Open in the summer to anyone who has had two years of college work.

Given in the summer to permit an engineering student to reduce his regular year schedule. One or the other of the numbers will be chosen, depending on the size of the class and other circumstances. Credit, two hours. Mr. Atkinson.

PSYCHOLOGY

201. General Psychology. This course is designed to give the student a knowledge of the most important facts, laws and methods of investigation of human mental life. Practical applications to problems of everyday life will be emphasized. The text used, perhaps more than any other recent one, is written simply and concretely, laying stress on the learning process in actual situations in the outside world as well as in school work. Credit, three hours. Dr. Anderson, Dr. Scott.

205. Child Psychology. This course will consider the mental processes of the child particularly from five to adolescence. Topics considered are the hereditary and environmental factors, sensory and perceptual life of the child, play, curiosity, imagination, memory, imitation, language, art and

musical expression, moral nature, discipline, punishment, etc. Experimental studies in child psychology will be emphasized as part of the course. Credit, three hours. Dr. Porter.

207. Educational Psychology. The primary purpose of this course is to help the student to master the elementary but significant problems and principles commonly accepted by experts as fundamental to good teaching. Discussion and lecture follow actual testing of, and experimentation with, the concrete separate problems of learning and teaching as found in school subjects, individual differences, and in many ways in which individuals influence each other. Credit, three hours. Dr. Lehman, Dr. Patrick.

211. Psychology of Junior and Senior High School Pupils. The present literature bearing upon adolescence will be surveyed, with emphasis on the more recent scientific investigations. The interests, abilities and instinctive tendencies of youth are to be given special attention. The more important phases of mental hygiene in its bearing on adolescence will also form a major division of the course. Members of the class will be given an opportunity to participate in one or more research problems in which the youth in his relation to such institutions of society as the home, school, religion and sports will be investigated. The course aims to give the junior and senior high school teacher a better physical, mental and emotional understanding of the problems of the child at this difficult age. Credit, three hours. Dr. Lehman, Dr. Scott.

419. Mental Measurements. The methods of testing intelligence as worked out by Binet, Terman, and others by individual tests will be demonstrated first by the instructor and later by members of the class. Group intelligence tests will be treated in the same manner. Lectures and discussion will follow rather than precede actual experience in testing. Application of the results of recent investigations in the measurement of intelligence and other mental traits to school and other social problems such as promotion, methods of instruction, and individual diagnosis and treatment will be emphasized. Credit, three hours. Dr. Anderson, Dr. Patrick.

428. Seminar: A Selected Topic. The field of psychology chosen for study in this course is usually one of keen current interest and of practical significance to the students electing the course. Each student works out an individual minor problem selected in consultation with the instructor. Credit, two hours. Dr. Porter.

412. Abnormal Psychology and Mental Hygiene. The nature of mental adjustments made by man to adapt himself in a normal way to the requirements of modern life; the deviations from the normal leading to the maladjustments which must be considered as abnormal; the relation between the mental processes of primitive man, the child, dream-life and mental disease; the theory, application, and limitations of psychoanalysis, the experimental methods giving useful results for the study of abnormal mental development to individual and social life. Clinics held at the hospital and also at the University. Credit, three hours. Dr. Porter, Dr. Scott.

432. Personnel and Vocational Psychology. Topics dealt with in this course will be chosen with reference to their bearing on personnel problems and vocational problems to be met in industrial, commercial and educational

work. Each student will be expected to work out a minor problem bearing on occupational interests, aptitudes or selection and training. Credit, three hours. Dr. Lehman.

424. Clinical Psychology. An advanced course designed to give the student training and experience in giving and valuating the results of a variety of tests and measurements. Individual cases of children from the delinquent, dependent, superior, feeble-minded, and school classes will be used as problems of clinical study. Mental instability as a cause of school and social maladjustment will be studied along with mental deficiency. Recent books by Wells, Bisch, Wallin, and such journals as the *Psychological Clinic*, *Journal of Applied Psychology*, *Journal of Abnormal and Social Psychology*, *Journal of Juvenile Research* and *Character and Personality* will be used as sources. Credit, three hours. Dr. Patrick.

ROMANCE LANGUAGES

101-102. Beginning French. This is a course for beginners, and covers the work of the first year of French in Ohio University or of two years in high school. Students are expected to take both courses simultaneously, but those who have credit for the first semester in college or for the first year in high school may, if they desire, register for Course 102 only, selecting either the first or the second hour of recitation, or beginning attendance at both hours with the fourth week of the session. It is nearly always advisable for such students to be present the full two-hour period each day from the start, however, as a systematic review is generally necessary where some time has elapsed since the first semester was taken. Two hours daily. Credit, six hours (one year of foreign language). Dr. Noss.

303s. Intermediate French. This course is designed for students who have had one year or more of college French, or two years or more of high school French. It will be of such nature as to fit the needs of those desiring either semester of second-year French in Ohio University, or work in addition to the regular second year, and will not overlap or conflict with other courses given previously. Stress will be laid upon pronunciation; and a general grammar review will be included in the form of regular and systematic exercises in composition. The course is recommended especially to teachers or prospective teachers who would like a thorough review. One hour daily. Credit, three hours (one-half year of foreign language). Dr. Noss.

332. Racine. An advanced course conducted in French. Two of Racine's tragedies will be studied each week. This course is intended primarily for graduate students, but advanced undergraduates may also take the course. Four hours each week. Credit, two hours. Dr. Noss.

334. The Modern French Novel. A study of the French from 1880 to 1900. Representative works of noteworthy novelists such as Emile Zola, Anatole France, Maurice Barres, Pierre Loti, Paul Bourget, Rene Bazin, and Henri Bordeaux will be studied. This course will be conducted in French and is intended primarily for graduate students, but advanced undergraduates may also take the course. Four hours each week. Credit, two hours. Dr. Noss.

101s. Beginning Italian. This is a course for those who have no previous knowledge of Italian. It will consist of careful instruction in pronunciation and the study of a limited vocabulary of Italian words, with the purpose of developing reading ability in the shortest possible time. The work is recommended especially for students of music, art, history, and literature, but may be elected for credit in foreign language by any one interested in gaining some knowledge of the language of Italy. Two hours a week. Credit, one hour. Dr. Wilkinson.

Attention is called to English 413, a course in Dante.

305. Supplementary Readings in Italian Literature. This course may be elected by students who have taken Course 102 or who otherwise satisfy the instructor of their fitness to take the work. The reading is carefully supervised and is accompanied by periodic conferences between student and instructor. Two hours a week. Credit, one hour. Dr. Wilkinson.

309. Italian Composition. Available to students who have taken Course 102 or its equivalent. Two hours a week. Credit, one hour. Dr. Wilkinson.

319. Advanced Italian. This course offers special work to students qualified to undertake advanced study. Those interested should consult the instructor on program and choice of subjects. Credit, one to four hours. Dr. Wilkinson.

101-102. Beginning Spanish. This course is intended for students who have no knowledge of the language. During the course, the essentials of grammar will be covered, with emphasis on pronunciation, drill in verbs, and considerable translation into Spanish. As soon as the progress of the class permits, a reader will be introduced and simple conversation in Spanish employed. Students are expected to take both courses simultaneously, but those who have credit for the first semester may register for Course 102 only, if they wish, selecting either hour of recitation at their convenience, or beginning attendance at both hours with the fourth week of the session. It is advisable for such students to be present the full two-hour period each day, however, as a systematic review is generally necessary where time has elapsed since the first semester was taken. Two hours daily. Credit, six hours. Dr. Wilkinson.

303s. Intermediate Spanish. This course is designed for such students as have had one or two years of college Spanish. It will be of such nature as to fit the needs of those desiring either semester of second-year Spanish in Ohio University, or work in addition to the regular second year in college, and will not overlap or conflict with other courses given previously either in the regular year or in the summer. The course will include grammar review, practice in composition, and introduction to Spanish literature, and as much conversation in Spanish as is feasible. The course is recommended especially to teachers or prospective teachers who would like a thorough review. One hour daily. Credit, three hours. Dr. Wilkinson.

319. Advanced Spanish. This course offers special work to students qualified to undertake advanced study. Those interested should consult the instructor on program and choice of subjects. Credit, one to four hours. Dr. Wilkinson.

SOCIOLOGY

The courses offered in this Department are designed to develop in the minds of students an intelligent appreciative interest in the general problems of moral and social well being. Sociology may be defined as the science of interdependent and integrated living and the art of making harmonious and helpful adjustments in the various relationships of life.

201. Educational Sociology: Introduction. A discussion of education as a social process conditioned by social groups and institutions, social attitudes and values; the pupil as a person and a member of various groups; the sociological basis of teaching and classroom organization; the sociological aspects of the curriculum; the school in its relation to the community. Credit, two hours. Mr. Jeddelloh.

203. Principles of Sociology. The purpose of this course is to direct the student in a comprehensive survey of the most important principles underlying the general field of Sociology, to give him a working use of the chief concepts employed as instruments of sociological analysis and interpretation and to acquaint him as far as possible with the standard literature in the field of general sociology. Credit, three hours. Dr. Ash.

204. Principles of Sociology. A continuation of Course 203 but stressing more particularly social problems. Credit, three hours. Mr. Jeddelloh.

Note—Courses 203 and 204 are designed to serve two main purposes: First, to accommodate those who want only a one or two semester course in Sociology, and second, to serve as a general foundation course for those wishing to specialize in Sociology.

211. Introductory Rural Sociology. A study of rural society. This course will consider the composition of the rural population, the rural family and standards of living, and an analysis of rural institutions such as the school, church, recreation agencies, local government, and health agencies. The fundamental differences between rural and urban groups will be considered as well as the major rural social processes. Credit, two hours. Dr. Ash.

212. The Rural Life Movement. This course is a general review of the work of the various movements and agencies which have as their purpose the improvement of rural life, such as the Grange, Farm Bureau Federation, American Country Life Association, 4H Clubs, and others. The history, the structure and functions, and a critical analysis of the problems and the utility of these and other organizations will be considered. Programs for the improvement of rural society with the problems therein involved will be discussed. Credit, two hours. Dr. Ash.

410. Development of Western Civilization. A comparative study of various primitive civilizations and of the different culture elements that have entered into the formation of modern Western Civilization commonly designated "Modern Christendom." Open only to advanced students in Sociology who have also taken college courses in History. Credit, three hours. Dr. Ash.

417. Criminology and Penology. This course will attempt to survey the more important general facts with respect to crime, the criminal, and his treatment by society. Emphasis will be placed on the nature and extent of crime, the factors conditioning criminality, characteristics of criminals, the

historical development of methods of punishment, recent theories and practices of punishment, institutions for the confinement, punishment, and social degeneration of criminals, trends in criminal law, court procedure, police systems, probation, parole, etc. Particular attention will be paid to measure and theories which point in the direction of a scientific criminology. Credit, three hours. Mr. Jeddelloh.

421. Social Service. An introduction to social case work with attention to problems of individuals and families in their social relationships. Case records will be analyzed and studied from point of view of understanding the basis of the failure of the individuals in self-maintenance, of interpreting their reactions and behavior in terms of their life experiences and relationships and of evaluating the treatment followed. Credit, three hours. Miss Horlacher.

SPEECH AND DRAMATIC ART

103. Public Speaking I. A beginning course. The purpose of this study and practice is to enable the student, in some measure, to overcome stage fright, to think on his feet before an audience, to feel at home on the platform, to find suitable topics to talk about, to discover sources of worthwhile things to say, to establish contact with his audience, to build a speech that shall be both interesting and persuasive.

The use of voice and body in the delivery of a speech will be stressed. Credit, two hours. Mr. Staats.

106. Oral Expression. Elective in Kindergarten-Primary course. Practice and study in the oral presentation of subject matter. Credit, one hour. Mr. Cooper.

304. Oral Interpretation of Poetry and Prose. The objectives of this course are: to aid the student in an analysis of any literary production; to get the meaning from the printed page and to respond to its appeal; to read distinctly; to give the sense, the thought-element; to exhibit vocally the relative values of groups of thought; and to cause the hearers to understand and respond to the appeal of literary truths. Credit, two hours. Mr. Staats.

306. Parliamentary Law. A study, with considerable practice, of the art of conducting a public gathering; leading, or taking part in group discussions. The art of presiding over an assembly, introducing proper motions, and speaking to questions from the floor. The art of getting things successfully done in any organized group of people. Credit, two hours. Mr. Cooper.

310. Extempore Speaking. This course is designed to give the speaker facility in outlining a subject, clarity of thought, skill in organizing material, and effectiveness in properly presenting, on short notice, thoughts previously gathered. The textbook material is devoted entirely to discussion of current problems before the American people. Public Speaking I is a prerequisite. Credit, three hours. Mr. Staats.

311. Effective Speaking. This course is concerned with the Speaker and his Audience, with such topics as, what makes a successful speaker; capturing the attention of the audience; how to make an interesting speech; how to open and close a talk; making your meaning clear and convincing; how to get response and action; the secrets of a good delivery; and methods of famous

speakers. The course offers considerable opportunity for class discussions. Credit, three hours. Mr. Cooper.

315. Play Directing (A methods course). A practical course of instruction in the technique of staging a play, and in the art of directing play rehearsals. The course is designed to enable the student to "put on" a play successfully in his own school or town. It is, therefore, a study of the art of acting as well as of the art of directing. A study of stage terms, characterization, stage balance and grouping, stage movements and business, tempo, pause, emphasis, climax, stage pictures, etc. Plays selected for high school, college, and town presentation are read, staged, and criticized as a part of the class work. Credit, three hours. Mr. Cooper.

PART II. THE POST SUMMER SESSION

The post summer session is organized to meet the needs of students who wish to utilize the three weeks of time for their advancement in collegiate study. It is expected that students who register for the various courses will be organized into formal classes only when the number of students in any course makes such organization advisable. It is probable that most of the study will be carried on in an informal way on the conference basis. Under this plan the needs of each student can be met whenever a teacher of the selected subject is available.

In order that plans may be made, students who expect to attend the post summer session are asked to notify the Office of the Registrar not later than Saturday, July 22nd. When filing such notice please state the title and course number of the course which is desired.

The departments of the University which will offer work during the post summer session are herewith listed with a general statement of courses which can be offered.

DEPARTMENTS OF INSTRUCTION

ART

The courses in Art listed below will be offered if there is demand for them. The program of hours will be arranged to fit the needs of students who register. Additional advanced courses can be made available if students request them.

201. Art Education. Art principles carried out in original designs in line, dark and light, and color. Representative Drawing and Painting, Lettering. Credit, two hours. Miss Work.

202. Art Education for Intermediate and Higher Grades. Discussion of modern tendencies in teaching art with variations of definite application to activities of the classroom. Prerequisite, Course 201. Credit, one hour. Miss Work.

224. Watercolor. Principles of art structure applied in the painting of still-life and landscape compositions. Fundamentals of form, solidity, and depth are stressed. Credit, two hours. Miss Work.

BIOLOGY

The Biology Department will offer Biological Problems, 363. This is an advanced course and will offer opportunity for research along several lines of work offered by the department.

CIVIL ENGINEERING

The Department of Civil Engineering will give opportunity for study in the various courses of the department if the demand is sufficient to warrant it. Professor L. J. Addicott is available for the giving of such work.

CLASSICAL LANGUAGES

The Department of Classical Language will offer courses, if desired.

EDUCATION

Dr. E. A. Hansen and Dr. E. C. Class will be available to give courses in Education. They will be willing to direct the work of any of the courses which they usually offer. They will also direct advanced students in research in minor problems in Education.

ENGLISH

Dr. R. A. Foster of the College of Education and Miss Greta Lash of the College of Liberal Arts are available for the giving of instruction in the various fields of English, both composition and literature.

GEOGRAPHY AND GEOLOGY

Courses in geography will be in charge of Miss Jane Atwood. She is willing to direct students in the work of any of the courses which she offers in the department.

HISTORY AND GOVERNMENT

Professor T. N. Hoover and Professor O. D. Morrison are available for the giving of courses in American History. Mr. Hoover will give any course which he usually offers in the department. Mr. Morrison suggests 215, United States since the World War; 425, The United States, 1865-1877; 422, Seminar in American History.

JOURNALISM

The Department of Journalism can offer the following courses: Editing Practice 351, 352, each two to three hours; Reporting Practice 335, 336, 337, each two to three hours. This work will be directly in charge of Mr. Harris and Mr. Smiley of The Athens Messenger.

MATHEMATICS

Dr. Robert L. Morton and Dr. H. E. Benz of the College of Education will make available the following courses, three hours of credit for each course: Mathematics 207. Teaching Arithmetic in the Primary Grades.
Mathematics 209. Teaching Arithmetic in the Intermediate Grades.
Mathematics 404. Teaching Mathematics in the Jr. High School.
Mathematics 409. Statistics.

One professor in the College of Liberal Arts will be available in case there is demand for regular courses or for graduate work on the conference basis.

PHILOSOPHY

Dr. Gamertsfelder will make the following course available for this session.

313. **American Philosophy.** A study of the philosophical background of American life and institutions, particularly as philosophy is related to our

form of government, educational theory and practice, literature, religious beliefs, morals and national character. Credit, two hours.

PSYCHOLOGY

Opportunities will be given for students during this post summer session to pursue courses in Educational, General, and Child Psychology. Minor Problems may also be pursued by advanced students for credit. The maximum credit obtained will be three hours. However, in Minor Problems a student may wish to complete one or two hours only. Dr. H. C. Lehman will offer these courses and he may be assisted by one or two other members of the regular staff if the demand for courses is sufficient.

SOCIOLOGY

Dr. Ash of the Department of Sociology will offer courses in this department if there is a demand for them.

SPEECH AND DRAMATIC ART

Professor Staats will offer the following described courses as there is demand for them.

103a. Business and Professional Speaking I. A beginning course. Designed to develop self-confidence, persuasive skill in presenting inspirational and promotional addresses, speech efficiency in conducting personal conferences and professional discussion. A study of types of professional speeches. Considerable platform practice in making the kind of speech that a business or professional man is likely to be called upon to deliver. Credit, two hours.

319-320. Dramatic Interpretation. Theory and practice of acting for the amateur actor. A study of the interpretative art planned for the individual as well as the ensemble. By means of pantomime, improvisation of dramatic scenes, the monologue, excerpts from plays, the student is aided in building the dramatic character. Opportunity for the learning of stage technique is given by casting students from this course in the laboratory plays presented in the play directing class. Credit, three hours.

302. Public Speaking II. A course for those who have completed Public Speaking 103 or its equivalent. It offers a more extended study of the principles introduced in the former course. Much drill work and practical application of the principles of speech receive major emphasis. Credit, three hours.



