BULLETIN

University of Kentucky



Graduate School
1932-1933

JULY, 1932

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THE GRADUATE SCHOOL

WILLIAM D. FUNKHOUSER, A. M., Ph. D., Sc. D., Dean* THEODORE TOLMAN JONES, A. M., Ph. D., Acting Dean

INTRODUCTORY STATEMENT

ince

Graduate work is offered in all colleges in the University. Approximately three hundred courses are listed in the catalogue, under the various departments, which are accepted for graduate credit.

The following advanced degrees are conferred by the University: Master of Arts, Master of Science, Master of Science in Agriculture, Master of Science in Home Economics, Civil Engineer, Mechanical Engineer, Electrical Engineer, Metallurgical Engineer, Mining Engineer.

The degree of Doctor of Philosophy is offered with major work in the following departments: Chemistry, Education, Economics, History, Mathematics, Physics, Psychology, and Political Science. Minor work may be carried in any department offering graduate courses.

ADMISSION TO GRADUATE STANDING

Graduates of institutions accredited by the University may be admitted to the Graduate School upon the presentation of a certificate of graduation and an official transcript of undergraduate courses taken. The status of the institution is to be ascertained from the Registrar of the University. Graduates from non-accredited institutions are encouraged to secure a bachelor's degree from an accredited institution. In particular cases they may be admitted to the Graduate School on the basis of doing additional work before being admitted to full graduate status.

It should be clearly understood that admission to the Graduate School does not necessarily admit a student to full graduate status. A student only attains full graduate status when he has fulfilled all the preliminary requirements of the degree which he seeks and of the department under whose direction he is pursuing graduate work.

Department prerequisites are determined jointly by the Dean of the Graduate School and the respective departments. In brief, it may be stated that such prerequisites usually consist of the equivalent of an undergraduate major. In some fields, the equivalent of an undergraduate minor is sufficient.

Members of the faculty of the University of Kentucky having a rank higher than that of instructor may not be considered as candidates for advanced degrees at this institution.

^{*}On leave of absence, 1932-1933.

REGISTRATION

The first step in the procedure for admission to the Graduate School is the filing of a formal application with the Registrar on a form prepared for that purpose. Applicants from institutions other than this University are also required to file an official transcript showing (a) all undergraduate work covered, (b) graduate work taken, if any, and (c) degrees received.

If the record submitted to the Registrar entitled him to admission he should confer with the Dean of the Graduate School and his major professor concerning preliminary requirements that he may have to satisfy and as to the graduate courses that he should take.

Preliminary requirements may be added from time to time as found necessary and all such requirements, together with graduate courses, must be recorded in the Registrar's Office and must be satisfied by the student before he is eligible for the degree for which he is registered.

All courses listed in this bulletin, and all courses which may appear later in the regular University catalogue, which have numbers above 100, may be counted as credit towards a graduate degree. A grade of D in a course will not be given graduate credit.

FEES

Registration and laboratory fees are the same as for undergraduate students in the college in which the major work is done.

Before the advanced degree is conferred, a fee of fifteen dollars must be paid at the Business Office of the University. This covers the graduation fee, diploma fee, fee for binding thesis and all other incldental fees.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS AND MASTER OF SCIENCE

Students having completed the equivalent of an A. B. or B. S. degree from an accredited liberal arts college or a standard teachers' college, may become candidates for the degree of master of arts of master of science.

Two plans are provided for satisfying the requirements for $\mbox{\ensuremath{\mathtt{l}}}$ master's degree, as follows:

- 1. Twenty-four credits in graduate courses exclusive of the thesis, one academic year (36 weeks) in residence, and an acceptable thesis.
- 2. At the option of a department (not of the student) the master's degree may be granted for the completion of forty-five credits in graduate courses with an average standing of B or better, three semesters (54 weeks) in residence, and no requirements of a thesis.

The credits (semester hours) may not include credits received in a thesis course. All of the work may be done in one field but it should

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Any residence the M. preferably be done in a major subject and one or two minors. At least half of the work must be taken in major courses.

RESIDENCE

The residence requirements may be fulfilled by any combination of regular semester or summer school sessions which total the required number of weeks. This does not mean that the work prescribed for each individual student can always be completed in the minimum length of time. Inadequate preparation or assistance in departments very frequently makes a longer period necessary. Part-time work during a regular semester is evaluated on the basis of the amount of work carried.

The transfer of acceptable graduate credits from other institutions or of other work done in absentia, such as writing a thesis under the direction of the major professor, cannot reduce the standard residence requirements.

THESTS

If a thesis submitted, two typewritten copies of the completed thesis must be presented not later than three weeks before the time set for the oral examination. One copy is presented to the Dean of the Graduate School to be bound and placed in the University Library and the other to the major professor to be retained by the department concerned.

Examinations of regular class work are taken by all resident graduate students. A final oral examination is given the candidate not later than fifteen days before the close of the semester. The Dean appoints an examining committee of at least three members for the purpose, selecting its members from the major and minor professors under whom work was done. The Dean is ex officio a member of all such examining committees. The candidate is asked to defend his thesis and is examined on any subject matter related to his field.

MASTER OF SCIENCE IN AGRICULTURE OR IN HOME ECONOMICS

Students holding a bachelor's degree from a standard agricultural college may obtain the degree of Master of Science in Agriculture or Master of Science in Home Economics by satisfying the same requirements as those designated for the M. A. and M. S. degrees. The work is prescribed by the major professor with the approval of the Dean.

REQUIREMENTS FOR THE DEGREES IN ENGINEERING: C. E., CIVIL ENGINEER; E. E., ELECTRICAL ENGINEER; M. E., MECHANICAL ENGINEER; MET. E., METALLURGICAL ENGINEER; E. M., MINING ENGINEER.

Any of these advanced engineering degrees may be obtained in residence by satisfying the same requirements as those outlined for the M. A. and M. S. degrees, provided the student holds a bachelor's

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eived in t should degree from an engineering college of recognized standing. The course of study should be arranged in consultation with the head of the department in which the student expects to do his major work and must have the approval of the Dean of the College of Engineering and the Dean of the Graduate School.

These degrees may also be obtained by graduates of the College of Engineering of the University of Kentucky for work done in absentia three or more years after receiving the degree of Bachelor of Science in engineering, providing this time has been spent in practical engineering work and an acceptable thesis is presented. At least one year's notice must be given the Dean of the Graduate School that graduate work is being done, and such work must have his approval and that of the major professor under whose supervision the thesis is prepared.

The fees for the degree obtained in absentia are \$15.00 registration fee, and \$15.00 ten days before the degree is granted.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is conferred upon a candidate who, after completing not less than three years of graduate work devoted to the study of a special field of knowledge, passes the required examination in the subjects, presents a satisfactory dissertation, and is deemed worthy of recognition as a scholar of high attainments in his chosen province.

The Doctor's degree is intended to represent not a specified amount of work covering a specified time, but the attainment, through long study, of independent and comprehensive scholarship in a special field. Such scholarship should be shown by a thorough acquaintance with present knowledge in his special field of learning and a marked capacity for research.

REQUIREMENTS FOR APPLICANT

Admission

Admission to the Graduate School and acceptance of advanced credits from other institutions must first be approved by the Registrar.

In order to be accepted as an *applicant* for the degree of Doctor of Philosophy the student must present evidence that he has completed an undergraduate course and has received his baccalaureate degree from a college of recognized standing.

The Graduate Committee reserves the right to decide in each case of applicancy for a degree whether the prerequisite training has been satisfactory and, if any of the years of advanced work have been passed in another institution, whether they may be properly regarded as having been spent under suitable guidance and favorable conditions. Private study is not considered as equivalent to university work. In any case the student must pass the qualifying examinations at the University of Kentucky and spend the last year of the residence requirements at this institution.

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A student wishing to become an *applicant* for the Doctor's degree must first regularly register in the Graduate School of the University of Kentucky and must then classify with the Dean of the Graduate School who will appoint a special committee for that student. This special committee, the chairman of which shall be his major professor, will consist of members of the departments in which the applicant elects to do his major and minor work and this committee will supervise his work throughout his period of study.

Not every applicant for the Doctor's degree is a candidate. A student is not a candidate for the degree until he has passed the qualifying examinations, satisfied the language requirements, and made formal application to be so enrolled.

COURSES OF STUDY

Every applicant for the degree must select one major and at least one and not more than two minor subjects.

The major subject should be one in which he intends to concentrate his efforts; the minor subjects should be closely allied to the major field or be subjects which will be of value in the major work and should be approved by the major department.

The applicant's principal work must be in the major subject. Although no absolute regulations are laid down in respect to the time to be devoted to the major and minor subjects, it may be stated in general that the major subject should represent two-thirds of the student's entire time.

Any regular graduate course may be assigned as part of the applicant's work by his special committee. Only courses numbered above 100 in the University catalogue are considered as of graduate status. The number and extent of such courses is determined by the special committee.

REQUIREMENTS FOR CANDIDATES

RESIDENCE

A minimum of three collegiate years of resident graduate work, of which at least the last year must be spent at the University of Kentucky, is required for the doctorate. The full time of each of these years must be spent in study. Part-time students and those holding assistantships or engaging in other outside activities will of course be required to take a proportionately longer time.

While it is expected that a well-prepared student of good ability may secure the degree upon the completion of three years of study, it should be understood that this time requirement is a minimum and is wholly secondary to the matter of scholarship. Neither time spent in study, however long, nor the accumulation of facts, however great in amount, nor the completion of advanced courses however numerous, can be substituted for independent thinking and original research.

Work done in other institutions of learning may be accepted toward the doctorate at the University of Kentucky but no work is

credited which has not been done in a college or university of recognized standing or in a research laboratory.

LANGUAGE REQUIREMENTS

The applicant must give evidence of having a good reading knowledge and of being able to translate at sight at least two modern foreign languages. This proficiency is determined by examinations conducted by the respective language departments. Ordinarily French and German are expected to be offered, but other languages may be substituted on recommendation of the special committee if it is considered that such languages are of greater importance in the special field of work The language requirements must be satisfied before the applicant can be admitted to the qualifying examination.

QUALIFYING EXAMINATION

Applicants for the degree of Doctor of Philosophy are required to pass a Qualifying Examination. This examination shall be taken during the second semester of the second year of residence. The examination shall be both oral and written and shall cover both major and minor subjects. It shall be prepared and given to the applicant by a committee of five to be appointed by the Dean of the Graduate School. The language requirements must have been met before the qualifying examination is taken. No applicant may proceed to his final examination until one year of work has been completed after he has passed the qualifying examination. If the applicant fails to pass the qualifying examination, no re-examination shall be allowed except upon the recommendation of the special committee and the approval of the Graduate Committee. If the applicant passes the qualifying examination he is then considered as a candidate for the degree and may make formal application for this rating.

DISSERTATION

Each candidate must present a dissertion covering his thesis work. This dissertation must give evidence of the candidate's ability to carry on independent investigation and must be satisfactory in style and composition. It must represent a definite contribution to the knowledge of his subject, must be the result of independent work, must include original research and must in some way add to or otherwise modify what was previously known on the subject. Two bound typewritten copies of the thesis and an abstract of not less than 1,200 nor more than 3,000 words must be formally presented to the Dean of the Graduate School at least four weeks before the final examination.

PRINTING OF DISSERTATION

One hundred printed copies of the dissertation must be presented to the University within one year from the time when the degree is conferred. Not later than one week before the conferring of the degree the candidate must deposit with the Business Agent of the University the sum of \$50.00, this amount to be returned if the printed copies are received within the time specified. The University does not obligate i Comm I'nive

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The candidate may have the dissertation printed at his own expense, in which case he must present one hundred copies to the University before the degree is granted. If the candidate has the dissertation printed at his own expense, he will be expected to use good substantial paper and sightly typography. A page four by six inches with outside margin of at least one inch is recommended. The dissertation must have a cover and title page and the latter, in addition to the title and the name of the author, must bear the following inscription:

"A dissertation submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy in the University of Kentucky."

If the dissertation is published in a technical journal or other recognized educational publication, the reprints will be accepted if presented with special printed covers and proper title page.

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All candidates who desire to be admitted to the final examination must file an application, approved by the Dean of the Graduate School, with the Registrar of the University at least three weeks before the examination is held.

FINAL EXAMINATION

After the acceptance of the dissertation by the special committee and the Dean of the Graduate School, the candidate shall be given a final oral examination by a committee of five members which shall include the Head of the Major Department or his delegate presiding, one additional professor selected by the major department, one professor selected by each of the minor departments and additional members (to make the total of five) selected by the Dean of the Graduate School. The President of the University and the Dean of the Graduate School are ex-officio members of all examining committees.

The final examination shall not be held until at least one year after the student has been accepted as a candidate for the degree.

The completion of three years of residence work confers no right upon the student to be so examined.

RECOMMENDATION

After the final examination has been passed, the name of the candidate will be presented to the University Senate for recommendation to the Board of Trustees for the degree of Doctor of Philosophy in course.

FELLOWSHIPS AND SCHOLARSHIPS

For the encouragement of research and scholarship the following fellowships and scholarships have been established:

Ten University scholarships with a stipend of \$200.00 each. Five University fellowships with a stipend of \$400.00 each. One Registrar's fellowship with a stipend of \$500.00.

Scholars and fellows will be expected to devote their whole time to graduate work, and no teaching or other departmental work may be required of them. Students employed as assistants in departments should as a rule take two years to satisfy a year's requirement.

Fellowships and scholarships are open to those who already hold, or will receive at the close of the academic year, a bachelor's degree from any college or university of good standing, provided the student has shown some special aptitude for the line of work he desires to pursue.

The primary object of these appointments is to stimulate research and not to give pecuniary aid. No departmental duties of any kind will be required of fellows and scholars. Candidates for the awards must be graduates of standard colleges or universities and must show evidence of high scholarship and fitness for graduate study. No student should apply for the award who does not cherish a real and earnest desire to do research work. The appointments are made for one year only but may be renewed if it can be satisfactorily shown that the prosecution of research undertaken should continue.

Forms for making application may be secured from the Dean of the Graduate School, University of Kentucky, Lexington, Kentucky. All applications should be on file not later than the 15th of April.

GRADUATE STUDENTS NOT CANDIDATES FOR A DEGREE

Graduate students who are not candidates for an advanced degree are not required to designate major or minor subjects, but may elect their work with a view to the special purpose for which they are in attendance at the University.

Any course of study announced for advanced undergraduates and graduates is open for election by such students upon the same conditions that are imposed upon those who are candidates for degrees.

Should a graduate student who has not arranged for his work with a view to obtaining a degree, subsequently desire to become a candidate for a degree, the amount of credit he is to receive for work already done will be determined at the time he applies for admission to candidacy for the degree.

No work is given graduate credit unless the student was enrolled in the Graduate School at the time during which the work was taken.

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olled aken. All graduate students are members of the Graduate Club, in which they are expected to take an active part. The club serves the purpose of developing an *esprit de corps* among graduate students and provide ways and means for securing prominent men for addresses on various subjects of interest.

GRADUATE COURSES OF STUDY

The courses offered for graduate work are listed under the $\ensuremath{\mathsf{follow}}$ ing groups:

I. LANGUAGES AND LITERATURES

Ancient Languages

English

German

Romance Languages

II. SOCIAL SCIENCES

Archaeology (See Biological Sciences)

Commerce

Commercial Education (See Education)

Economics

Educational Psychology (See Education)

Farm Economics (See Agriculture)

History

History of Education (See Education)

Law (See Law)

Markets and Rural Finance (See Agriculture)

Philosophy

Philosophy of Education (See Education)

Political Science

Psychology

Sociology

III. BIOLOGICAL SCIENCES

Agronomy (See Agriculture)

Anatomy and Physiology

Animal Industry (See Agriculture)

Animal Pathology (See Agriculture)

Anthropology and Archaeology

Bacteriology

Botany

Entomology (See Agriculture)

Horticulture (See Agriculture)

Hygiene

Psychology (See Social Sciences)

Zoology

IV. PHYSICAL SCIENCES

Chemistry

Engineering (See Engineering)

Geology

Mathematics and Astronomy

Physics

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V. AGRICULTURE

Agricultural Education (See Education)

Agronomy

Animal Industry

Animal Pathology

Entomology

Farm Economics

Home Economics

Home Economics Education (See Education)

Horticulture

Markets and Rural Finance

VI. EDUCATION

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Administration

Agricultural Education

Commercial Education

Educational Psychology

Elementary Education

History of Education

Home Economics Education

Philosophy of Education

Secondary Education

VII. ENGINEERING

Civil Engineering

Electrical Engineering

Mechanical Engineering

Metallurgical Engineering

Mining Engineering

VIII. FINE ARTS

Art

Music

IX. LAW

I. LANGUAGES AND LITERATURES

ANCIENT LANGUAGES AND LITERATURES

LATIN

109—LATIN LITERATURE (Selections). The authors read will probably be: Juvenal (Selected Satires); Martial (Selected Epigrams). These writers will be read for their literary value, and for the light they throw on the political and social life in Rome at the close of the first century.

Prerequisite: Latin 7 or 8. 3 credits; 1st semester (Jones)

110—LATIN LITERATURE (Selections). The authors read will probably be: Suetonius (Claudius and Nero); Seneca (Selections). The private life of the Caesars is discussed in detail. The principles of the Stoic Philosophy are explained.

Prerequisite: Latin 7 or 8. 3 credits; 2nd semester (Jones)

114a—LATIN COMPOSITION. The course will begin with easy passages in connected discourse and will proceed to more difficult selections.

Prerequisite: Latin 5. 1 credit; 1st semester (Jones)

114b—LATIN COMPOSITION. A continuation of 114a.

Prerequisite: Latin 5. 1 credit; 2nd semester (Jones)

120—GREEK CIVILIZATION (given entirely in English). A brief review of Ancient Greek history; the private and public life $^{\rm of}$ the people; archaeology.

Prerequisite: Junior Standing. 3 credits; 1st semester (Jones)

121—ROMAN CIVILIZATION (given entirely in English). A brief review of Roman history; private and public life of the Romans; Roman archaeology.

Prerequisite: Junior Standing. 3 credits; 2nd semester (Jones)

122a—GREEK LITERATURE IN ENGLISH TRANSLATION.

Several of the great authors will be studied, beginning with Homer.

Prerequisite: Junior Standing. 3 credits; 1st semester (Jones)

122b—A continuation of 122a. Prose writers will be studied; historians, orators, philosophers.

Prerequisite: Junior Standing. 3 credits; 2nd semester (Jones)

151a—COURSE IN INDIVIDUAL WORK. The work assigned will depend upon the needs of the student.

Prerequisite: Junior Standing. 3 credits; 1st semester (Jones)

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151b—COURSE IN INDIVIDUAL WORK. A continuation of 151a.

Prerequisite: Junior Standing. 3 credits; 2nd semester (Jones)

201a—LATIN PASTORAL POETRY. This course is based mainly on Virgil's Ecologues and Georgics. The development of the author's talent will be noted and his models traced. In addition one or two dramas will be read, or selections from Lucretius.

Prerequisite: Graduate Standing. 3 credits; 1st semester (Jones)

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201b—LATIN ELEGIAC POETRY. Selections from Catullus, Tilbullus, Propertius, and Ovid will be read. The change in the subject matter of the Elegy will be noted. Scanning. Mythological references studied.

Prerequisite: Graduate Standing. 3 credits; 2nd semester (Jones)

GREEK

149—ANABASIS. One book of the Anabasis will be read, and easy selections from other writers. Exercises in construction and composition.

Prerequisite: Greek 51. 3 credits; 2nd semester (Jones)

152—ANABASIS. Selections from the remaining books of the Anabasis and from other writers of equal difficulty will be read.

Prerequisite: Greek 149. 3 credits; 1st semester (Jones)

153—HOMER. The Iliad, Books 1.6. The Homeric Question. Life in the Homeric Age, Mycenean Antiquities. Recent discoveries will receive due attention. Scanning.

Prerequisite: Greek 149. 3 credits; 2nd semester (Jones)

154—PLATO. The Apology and Crito, selections from Phaedo. The relation of Plato to Socrates, Socrates as a moral teacher, his methods of investigation, will be discussed.

Prerequisite: Greek 152. 3 credits; 1st semester (Jones)

155—HERODOTUS. Books 6-7. This course will include a rapid survey of Greek History from the Ionic Revolt to the end of the Persian Wars.

Prerequisite: Greek 152. 3 credits; 2nd semester (Jones)

ENGLISH

The Department of English requires, as a prerequisite for the master's degree, attainment in English equivalent to that required of an undergraduate English major at the University of Kentucky. For the M. A. degree, a minimum of fifteen hours of English must be offered, including seminar throughout the year. A maximum of nine hours in other subjects is permitted, provided these courses have the approval of the Graduate Committee of the Department of English. Students in Library Science may offer ten credits in that subject but

the remaining credits must all be in English. All candidates for the master's degree in English will be required to attain a reading knowledge of one foreign language before receiving the degree.

104—MILTON. A study of Milton's poetry and most important prose work. The relation of Milton to his contemporaries. Graduate students will be assigned special topics for investigation.

3 credits; 1st semester (Dantzler)

105—BROWNING. An intensive study of the art and teaching of Browning. Graduate students will be assigned special topics for investigation.

3 credits; 2nd semester (Dantzler)

106—THE ROMANTIC MOVEMENT IN ENGLISH POETRY. A rapid survey of the characteristics of the classical period, and a more careful study of growing signs of Romanticism in the early part of the 18th century. The French Revolution and its influence on the chief poets of the Romantic Movement. Special emphasis on Wordsworth, Byron, Shelley, Keats and other prominent poets of the first quarter of the 19th century.

3 credits; 1st semester (Brady)

107--VICTORIAN POETRY. Extensive study of the ideas of the chief poets of the Victorian era, with special emphasis on the works of Tennyson, Browning, Arnold, Swinburne and Rossetti.

3 credits; 2nd semester (Brady)

110a—SHAKESPEARE—COWEDY. Shakespeare's comedies will be studied in detail.

3 credits; 1st semester (Farquhar)

110b—SHAKESPEARE—TRAGEDY. A continuation of 110a. 3 credits; 2nd semester (Farquhar)

111a—THE NOVEL BEFORE SCOTT. The development of fiction from the romance to Jane Austen.

3 credits; 1st semester (Gallaway)

111b—THE ENGLISH NOVEL OF THE NINETEENTH CENTURY. A continuation of 111a, although the latter is not required for admission. It aims to acquaint the student with the development of the novel in English from Walter Scott to and including Stephen Crane.

3 credits; 2nd semester (Knight)

116—THE CONTEMPORARY DRAMA. Development and tendercies in Continental, British, and American Dramatic literature, 1850 to 1918. Selected readings.

3 credits (Farquhar)

117-LITERARY COMPOSITION. Meant to stimulate original

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writing in any form the student prefers. The class becomes a laboratory for readings, criticisms and discussions. Those taking it should be interested, at least in a speculative way, in becoming writers.

2 credits; 2nd semester (Knight)

123a—AMERICAN LITERATURE BEFORE 1860. A survey course which purposes to introduce the student to influences in American life and thought as well as to its letters.

3 credits; 1st semester (Knight)

123b—AMERICAN LITERATURE AFTER 1860. A continuation of the above, which is not a prerequisite.

3 credits; 2nd semester (Knight)

127a—LITERATURE OF THE BIBLE. A literary study of the Bible by Books. It develops an appreciation of literature generally because of the demand that literature identify itself with the highest thought and feeling.

2 credits; 1st semester (Farquhar)

127b—LITERATURE OF THE BIBLE. This is a continuation of 127a,

2 credits; 2nd semester (Farquhar)

130a—COMPARATIVE LITERATURE. Extensive reading of literary masterpieces through the ages from Homer to the present day. A study of the great traditions of civilization as reflected in the literary monuments. Lectures, assigned readings, and class discussion. Intended for advanced undergraduates or graduate students. The reading is assigned entirely in translations, but a reading knowledge of at least one foreign language is highly desirable.

3 credits; 1st semester (Brady)

 $130b\mbox{--}COMPARATIVE$ LITERATURE. A continuation of English 130a.

3 credits; 2nd semester (Brady)

134—DEVELOPMENT OF THE ESSAY FROM BACON TO THE PRESENT DAY. Class discussion of assigned readings from representative essayists. Study of various types, such as the familiar, critical, historical, and philosophical essay, with some practice by the student in writing original essays.

3 credits; 1st semester (Brady)

135—PRE-VICTORIAN PROSE. A careful study of some of the prose monuments of English Literature with special emphasis on the groups of writers surrounding the period of the French Revolution, with consideration of the philosophical and political writing of the age.

3 credits; 2nd semester (Brady)

136-VICTORIAN PROSE. A careful study of Carlyle, Ruskin, Newman, Spencer, Arnold, Huxley, and related writers of the period in

the field of prose. Assigned parallel readings, class discussion, and lecture.

3 credits; 1st semester (Brady)

141—RESTORATION—18TH CENTURY DRAMA. A course in the types of drama arising or developing between 1660 and 1774. Special attention given to foreign influences on the English drama and the relations between the drama and the 18th century life.

3 credits; 1st semester (Kelley)

142—ENGLISH LITERATURE OF THE RENAISSANCE. A survey of the literature of the Elizabethan and Jacobean periods, exclusive of the drama. Attention will be given to the foreign sources of the English Renaissance. The sonnet will be studied from its origins to its development in Spenser. The pastoral from Theocritus to Spenser, Utopian literature from Plato to More, the romance from Auccasin and Nicolette.

3 credits; 2nd semester (Dantzler)

145—ELIZABETHAN DRAMA. A study of Elizabethan drama and dramatists, excluding Shakespeare, contributing to the development of English drama. Special study of the influence of foreign drama upon Elizabethan drama.

3 credits; 2nd semester (Kelley)

152a—ENGLISH LITERATURE FROM THE RESTORATION TO SHERIDAN. The principles of English classicism. Dryden and lesser Restoration figures: Defoe, Swift, Pope, Addison, Steele.

3 credits; 1st semester (Gallaway)

152b—ENGLISH LITERATURE FROM THE RESTORATION TO SHERIDAN. Continuation of the survey from the death of Pope to 1798. Johnson and his circle: Burke, Goldsmith, Gray, Walpole, Cowper. The Pre-Romantic Movement.

Prerequisite: English 152a or the consent of the instructor.

3 credits; 2nd semester (Gallaway)

153—RESTORATION—EIGHTEENTH CENTURY DRAMA. A study of the dramatic types that arose or developed between the closing of the theatres in 1642 and the death of Sheridan.

3 credits; 1st semester (Kelley)

201a—LITERARY CRITICISM. This course is mainly an application of the philosophic and historical elements of literary criticism to some period of literature or to the works of some author in a period. It is criticism that essays the unity of all literature, its everlasting growth and the importance of inductive observation of literary phenomena.

Prerequisites: English 108a-b. 3 credits; 1st semester (Farquhar)

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201b—LITERARY CRITICISM. A continuation of 201a. Special problems assigned to students.

3 credits; 2nd semester (Farquhar)

2022—STUDIES IN CONTEMPORARY DRAMA. This course is an application of the philosophy and history of drama to the modern árama as a whole and to the work of some particular dramatists. It includes a particular study of the work of Ibsen as prerequisite to any other study.

Prerequisite: English 116. 3 credits; 1st semester (Farquhar)

202b—STUDIES IN CONTEMPORARY DRAMA. A continuation of 202a. Special problems assigned to students.

3 credits; 2nd semester (Farquhar)

204a—BEOWULF. A literary and linguistic study of Beowulf. Lecture and recitation. One year of Old English and a reading knowledge of German are desirable.

2 credits; 1st semester (Dantzler)

204b—BEOWULF. A continuation of 204a.

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2 credits; 2nd semester (Dantzler)

205—CHAUCER. Chaucer's contribution to English literature. The greater part of his poetry will be read. Lecture and recitation.

3 credits; 1st semester (Dantzler)

207—SPENSER. A study of Spenser and his poetry. Lecture and recitation. A problem will be assigned to each member of the class for study.

3 credits; 2nd semester (Dantzler)

208—CARLYLE. A comprehensive study of Carlyle, his position as a man of letters, and a critic of literature. His literary essays, political philosophy, various writings on history, including *The French Revolution*. His social ethics and moral philosophy: *Sartor Resartus*, *Chartism*, *Past and Present*.

3 credits (Brady)

LIBRARY SCIENCE

126—PLACE, FUNCTION, ADMINISTRATION, AND OPPOR-TUNITY OF THE HIGH SCHOOL LIBRARY. A study of the place, function, administration and opportunity of the library in the modern school. The librarian's relations to faculty, students, and outside agencies; the fundamentals of library planning and equipment; personnel problems and their management; business management, including accounts, records and statistics; methods of stimulating reading habits and handling an effective service are major topics discussed. Lectures, problems, assigned readings.

3 credits; 1st semester (King)

128—CHILDREN'S LITERATURE. A brief introduction to the field of children's literature and a comparative study of different classes and types of books with regard to the independent reading of children of different age groups and reading interests, with special emphasis on myth, folk tale and legend, followed by the reading and discussion of all types of books suitable for the junior and senior high school. Special study of story telling; of illustration and physical make-up of books; of editions; of children's magazines and book-reviewing periodicals; and of aids in the selection of books for young people.

2 credits; 2nd semester (Semmons)

129—CATALOGING AND CLASSIFICATION. A study of the principles and form of cataloging by the unit card system with some use of Library of Congress cards; of the assigning of subject headings; and of the principles of classification with their application in the effective administration of the library. Practice work under supervision is required in classifying books by the Dewey Decimal system and in making a shelf list and dictionary catalog. Lectures, problems and assigned readings.

2 credits; 2nd semester (Semmons)

132—LIBRARY WORK WITH CHILDREN. The effective organization and administration of library work with children, developed through a study of the history of the work of the economic and social background of the pupil, of the qualifications of the librarian, and of the equipment of rooms and the assembly of materials. Special emphasis on methods of directing the child's reading. Not offered 1931-32.

2 credits; 2nd semester (Semmons)

133—REFERENCE AND BIBLIOGRAPHY. A study of essential reference works, particularly those most valuable in school libraries, including dictionaries, encyclopedias, atlases, yearbooks, periodical indexes, and reference books on special subjects, with some consideration of subject and trade bibliographies, government documents, and vertical file material; and of the standards by which such material is selected. Lectures, problems and assigned readings.

3 credits; 1st semester (Semmons)

134—LIBRARY RECORDS AND METHODS. A course planned to emphasize the essentials of library organization and the importance of routine processes in the library, as related to effective library service. The various procedures necessary to the acquisition, accessioning, circulation and care of books and minor materials, and purchase of supplies, by means of assigned readings, problems, class discussions and occasional lectures.

2 credits; 2nd semester (Semmons)

138-METHODS OF TEACHING THE USE OF THE LIBRARY.

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The course emphasizes the function of the library in the modern school and community; the value of developing in students a love of reading and research and of teaching them the effective use of library facilities. It includes the reading of articles on library lessons in school; a study of methods of teaching the use of the library with adaptation to grade taught, of plans for presenting the various types of materials; and the organization by the class members of a definite course of lessons for teaching the use of the card catalog and general reference tools in a high school library. Prerequisite 133.

2 credits; 2nd semester (Semmons)

139—FIELD WORK. Comparable to practice teaching. Supervised practical work in all departments of the University High School or other school library two periods a week of two consecutive hours, supplemented by seminar discussions.

Prerequisites: 129, 133, 150; four hours a week.

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2 credits; 1st semester (Semmons)

150—BOOK SELECTION. The study of principles and standards in the choice of books and periodicals. Practical problems in book selection and acquisition; a study of American publishers, of book reviewing periodicals and aids to book selection; the writing of booknotes; the reading and discussion of typical books in the fields of biography, travel, essays, poetry, fiction, history, sociology, art, and science.

2 credits

154—SEMINAR. A survey of the field of library science through a study of the history and personnel of the modern library movement and of the various agencies that have developed—library associations, schools, commissions, periodicals, etc.; of library economy with special emphasis on the importance of routine processes in the library as related to good library service; of adult education in its special application to the guidance of the reading of teachers; of publicity methods within and outside the library. General discussion of problems, special reports on assigned topics.

Prerequisites: English 126, 129, 133, 150 2 credits

GERMAN

101a—NINETEENTH CENTURY LITERATURE. Studies in the German drama of the 19th century with special emphasis on selected

Prerequisite: German 3b. 3 credits; 1st semester (Melcher)

101b—NINETEENTH CENTURY LITERATURE. Continuation of course 101a.

Prerequisite: German 3b 3 credits; 2nd semester (Melcher)

 $102a-\mbox{\em GERHARDT}$ HAUPTMANN. Reading, discussions and reports.

Prerequisites: German 4a-b. 3 credits; 1st semester (Bigge)

102b—GERHARDT HAUPTMANN. Continuation of Course 102a.

Prerequisite: German 4a-b. 3 credits; 2nd semester (Bigge)

105a—INDEPENDENT WORK COURSE. This course is designed for students of particular excellence in the department.

3 credits; 1st semester (Melcher, Bigge)

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105b—INDEPENDENT WORK COURSE. Continuation of Course 105a.

3 credits; 2nd semester (Melcher, Bigge)

ROMANCE LANGUAGES AND LITERATURES

FRENCH

109a—FRENCH LITERATURE OF THE XIX CENTURY. The works of the writers of XIX century are studied, i e., Victor Hugo, Thiophile Guatier, DeMusset, and Daudet.

3 credits; 1st semester (Zembrod)

109b—FRENCH LITERATURE OF THE XIX CENTURY. A continuation of 109a.

3 credits; 2nd semester (Zembrod)

110a—FRENCH LITERATURE OF THE XVII CENTURY. The classics of Corneille, Racine, and Moliere are studied. Students are to familiarize themselves with the history of French society and civilization. Reports written in French are to be handed in at regular intervals. Advanced lessons in syntax and composition once a week.

3 credits; 1st semester (Zembrod)

110b—FRENCH LITERATURE OF THE XVIII CENTURY. A continuation of 110a.

3 credits; 2nd semester (Zembrod, Horsfield)

113a—ROMANCE LANGUAGES. This course is for graduate students who are majoring in one of the romance languages. No definite work is put down. Work is assigned to suit the needs of the students. A good reading knowledge of German is desirable.

3 credits (Zembrod)

113b—ROMANCE LANGUAGES. A continuation of 113a. 3 credits (Zembrod)

SPANISH

104a—SPANISH LITERATURE. Spanish novel and drama of the XVI and XVII centuries; syntax and composition. This course

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enables the student to become familiar with some of the works of the greatest novelists and dramatists of the golden age of Spain's literary history.

3 credits; 1st semester (Server)

104b—SPANISH LITERATURE. A continuation of 104a. 3 credits; 2nd semester (Server)

112a—SPANISH LITERATURE. Spanish novel and drama of the XIX century; syntax and composition.

2 credits; 1st semester (Server)

112b—SPANISH LITERATURE. A continuation of 112a. 3 credits; 2nd semester (Server)

II. SOCIAL SCIENCES

ARCHAEOLOGY (See Biological Sciences)
COMMERCE (See Economics and Commerce)
COMMERCIAL EDUCATION (See Education)

ECONOMICS AND COMMERCE

102—LABOR PROBLEMS. A study of the labor market in its industrial phases, including such directly related topics as immigration, unemployment, and labor organizations.

Prerequisite: Course 1a. 3 credits; 1st semester (Carter)

103—TRANSPORTATION. Growth of the railway net; pools and traffic associations; principles and practice of rate-making as exemplified by the decisions of the Interstate Commerce Commission and the courts; state and federal regulation, with comparison of policies in foreign countries.

Prerequisite: Course 1a. 3 credits; 2nd semester (Sullivan)

104—GOVERNMENT FINANCE. A study of public receipts; public expenditures; the principles of taxation with special reference to their application to the tax systems, federal and state.

Prerequisite: Course 1a. 3 credits; 1st semester (Martin)

105—MONEY AND BANKING. Nature and functions of money; the importance of credit; relation of money and credit to prices; bank deposits and loans; complete study of our national banking system and comparison with those of foreign countries.

Prerequisite: Course 1a. 3 credits; 1st semester (Wiest and Sullivan)

106a—ADVANCED ACCOUNTING. Corporation accounting, cost accounting, municipal accounting, and auditing.

Prerequisites: Courses 7a and 7b. 3 credits; 1st semester (Haun)

106b—ADVANCED ACCOUNTING. Continuation of 106a. 3 credits; 2nd semester (Haun)

107—STATISTICAL METHOD. Training in the process of treating multiple phenomena with mathematical exactitude. The methods are illustrated with material from the fields of psychology, education, economics and sociology. Recitation, one hour, laboratory, four hours. Not open to freshmen and 3 credits; 1st semester (Palmer) sophomores.

108—INSURANCE. Fundamental aspects of insurance; principles

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principle corporate ing fund Prerequi and their main application; nature of the contract; policies and premiums; life, casualty, health, fire, marine and other hazards. 3 credits; 2nd semester (Averett) Prerequisites: Course 1a, Mathematics 14.

109a-BUSINESS LAW. A survey of the principles of contracts, sales, bills and notes, and that portion of the law of torts applicable to business practices.

3 credits; 1st semester (Durbin)

109b—BUSINESS LAW. Continuation of 109a. 3 credits; 2nd semester (Durbin)

110-BUSINESS CYCLES. 'The nature and characteristics of the economic factors which underlie the cyclical fluctuations in business conditions; the methods of business and investment forecasting and their practical application.

Prerequisites: Courses 1a and 107. 3 credits; 2nd semester (Palmer)

112a-INDIVIUAL WORK IN ECONOMICS. In this course a selected group of advanced students who have at least a standing of 2 are given special problems for intensive investigation. The students are expected to do more work than the usual amount required per credit hour. Each student makes reports of his studies to the class which is conducted on a seminar basis.

Prerequisite: Course 1a.

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2 credits; 1st semester (Martin, Palmer and others)

112b-INDIVIDUAL WORK IN ECONOMICS. Continuation of 112a. 2 credits; 2nd semester (Martin, Palmer and others)

113-AUDITING. The theory of auditing, the valuation of assets, analysis of accounting procedure, and the presentation of statements. Special problems applicable to particular businesses will also be presented.

Prerequisites: Courses 7a, 7b. 3 credits; 2nd semester (Haun)

115-CONTEMPORARY ECONOMIC THOUGHT. A survey of current literature of theoretical economics. Special emphasis is placed on analysis of fundamental institutions. Prerequisite: Course 1a.

117-CORPORATIONS FINANCE. Stocks and bonds, sound fiscal Principles concerning the issue of securities, the management of the corporate income, the disbursement of dividends, the creation of sinking funds, and reorganization procedure. Prerequisites: 1a, 7a, 7b and 9.

3 credits; 2nd semester (Lawrence and Averett)

3 credits; 1st semester (Martin)

 $118\mbox{--}COST$ ACCOUNTING. The place of cost accounting in the general field of accounting, special records and cost statistics, application to particular businesses.

Prerequisites: Courses 7a, 7b. 3 credits; 1st semester (Haun)

119—RETAIL MERCHANDISING. Selecting a business location, internal layout, departmentalization, mechandising control, store policies toward the public, training and management of personnel, and related subjects.

Prerequisites: Courses 1a, 10. 2 credits; 2nd semester (McIntyre)

120—ORGANIZATION OF ECONOMIC GROUPS. A survey of economic groups and their economic and social relationships; the business organization aspects of farmers' organizations, chambers of commerce, trade and industrial associations.

Prerequisite: Course 1a. 3 credits; 1st semester (Sullivan)

124—STATE AND LOCAL TAXATION. The classified property tax, separation of sources of revenue and the place of income, inheritance, and excise taxes in a state and local system; taxation of such businesses as banks, public utilities, and mining and such forms of property as rural and urban real estate, personalty and forests.

Prerequisite: Course 1a. 3 credits; 2nd semester (Martin)

125—ADVANCED ECONOMIC HISTORY OF EUROPE. An advanced study of population, immigration, labor, agriculture, industry, and finance and the effects of the various lines of development upon national life.

Not open to freshmen and sopohomores nor to students who have had course 2 except when doing graduate work.

3 credits; 1st semester (Jennings)

126—ECONOMICS OF PUBLIC UTILITIES. No credit for this course can be given if the student has credit for Political Science 158. Growth and development of public utilities; valuation; rate-making; financing; the holding company; regulation; current problems; accounting.

Prerequisite: Course 1a. 3 credits; 1st semester (Carter)

127—INTERNATIONAL ECONOMIC POLICIES. Medieval notions concerning trade; modern fallacies respecting foreign trade; free trade; protectionism; preferential tariffs; colonial tariff policies; dumping; commercial treaties; international patent control; encouragement of foreign shipping; international investments and the movement of capital; international debts; reparations; current international economic problems.

Prerequisite: Course 1a. 3 credits; 2nd semester (Sullivan)

128—FOREIGN EXCHANGE. The theory and practice of foreign exchange; inter-bank relations; the exchange market; supply and

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demand for foreign exchange; types of foreign bills; the rate of exchange; international gold movements; dollar exchange; settlements without use of foreign exchange, investment and speculation in exchange.

Prerequisite: Course 1a. 2 credits; 1st semester (Palmer)

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129—CREDITS AND COLLECTIONS. The theory of credits; forms of credits; classes of credit and credit machinery; duties and qualifications of a credit man; elements determining the credit risk; sources of credit information; analysis of the financial statement; collections; legal remedies of the creditor and credit safeguards.

Prerequisites: Courses 1a, 10. 2 credits; 1st semester (Averett)

130—LABOR LEGISLATION. The status of labor law, mediation, conciliation, arbitration, the minimum wage, the eight-hour day, unemployment relief, safety and health legislation, and social insurance.

Prerequisite: Course 1a. 3 credits; 2nd semester (Carter)

131—INVESTMENTS. The general field of investments. Emphasis is placed upon problems which face the investor rather than the seller of securities. Analysis of corporation statements for investment purposes; the security market; market influences on security prices; effect of interest changes on security prices; analysis of specific types of investments; and the development of investment programs. Prerequisites: Courses 1a and 9. 2 credits; 2nd semester (Palmer)

132a—C. P. A. PROBLEMS. This course is designed primarily for those intending to write on C. P. A. examinations. It is entirely a problem course with class discussion centering about the advanced points of accounting theory illustrated in the problems. Among the points covered are: 1. Application of Funds Statement. 2. Balance Sheet Criticism. 3. Bank Accounts. 4. Branch Accounts. 5. Burglary and Fire Loss. 6. Club Accounts. 7. Comparative Statements. 8. Consolidated Statements. 9. Construction Accounts. 10. Contractors' Accounts. 11. Estate Accounts. 12. Executors' Accounts. 13. Fraud 14. Goodwill. 15. Institutional Accounts. 16. Municipal Accounts. 17. Professional Accounts. 18. Railroad Accounts. 19. Real Estate Accounts. 20. Realization and Liquidation. 21. Reserves. 22. Sinking Funds. 23. Statement of Affairs and the Deficiency Account. 24. Trustee Accounts. 25. Valuation of Assets. 26. Working Capital, et cetera. Prerequisites: Courses 106a, 106b. 3 credits; 1st semester (Haun)

132b—C. P. A. PROBLEMS. Continuation of 132a. 3 credits; 2nd semester (Haun)

133—INCOME TAX PROCEDURE. The preparation of income tax returns for individuals and corporations of all classes and a practical application of principles of accounting. The returns prepared cover such points as: 1. Rates of tax. 2. Exemptions and credits. 3. What included and what excluded from gross income. 4. Deductions

allowed. 5. Deductions not allowed. 6. Partnership returns. 7. Returns of estates and trusts. 8. Administrative provisions. 9. Definitions and general provisions.

Prerequisites: Courses 106a, 106b. 3 credits; 1st semester (Haun)

134—ADVANCED ECONOMIC HISTORY OF THE UNITED STATES. An advanced study of English colonial policy, population growth, immigration, territorial expansion, agriculture, manufactures, tariff, labor, industrial combinations, commerce, transportation facilities, money and banking, and conservation.

Not open to freshmen and sophomores nor to students who have had course 3 except when doing graduate work.

3 credits; 2nd semester (Jennings)

135—ADVANCED MARKETING. The literature and problems in the retail distribution of consumers' goods; wholesale distribution of consumers' goods; industrial goods; sales organization; sales promotion and advertising and price policies.

Prerequisite: Course 10. 3 credits; 1st semester (McIntyre)

136—SALES MANAGEMENT. The case method will be used supplemented with outside reading and written reports.

Prerequistes: Course 11 or 3 credits; 2nd semester (McIntyre)

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137—PROBLEMS IN MANAGEMENT. Emphasis is placed upon factory management, but an attempt is made to coordinate managerial aspects of business in its entirety. Fundamental principles underlying efficient management; correct office procedure; economies gained through proper plant location and plant layout; the routing and storing of products; and standardized operating practices. Approximately half of the semester is devoted to the consideration and criticism of business reports dealing with various managerial problems and prepared by members of the class.

Open only to seniors of the College of Commerce who are required to take either this course or 138, and to graduate students who have had the necessary prerequisite training.

3 credits; 2nd semester (Carter)

138—INVESTIGATION OF BUSINESS PROBLEMS. The method of surveying, analyzing and actual investigation of problems of business management. It is intended for mature students who have had a thorough training in commerce and who are capable of doing research work under the guidance of the instructor. The work will involve the statistical analysis of data secured through interviews, question-

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Open only to seniors of the College of Commerce who are required to take either this course or 137, and to graduate students who have had the necessary prerequisite training.

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139—ADVANCED TIME SERIES AND INDEX NUMBERS. The selection and fitting of trend curves, the measurement of typical and varying seasonal factors, the special methods of correlation necessary for time series, the advanced study of index-number theory, and the technique of statistical forecasting. The principal aim of the course is to prepare students for the professional use of statistical methods in the business world.

Prerequisite: An elementary 3 credits; 1st semester (Palmer) course in statistics.

140—ADVERTISING CAMPAIGNS. The procedure necessary for developing an advertising campaign; a study of successful advertising campaigns as used by leading business houses throughout the country; and the planning and execution of an advertising campaign in conjunction with some local business house. The advertising campaign worked out by the student will be checked and tested for its effectiveness.

Prerequisites: Course 11,
Psychology 5, or the consent of the instructor.

3 credits; 2nd semester (McIntyre)

141—MANAGERIAL STATISTICS. An advanced practical course in the use of charts and graphs by the business manager; logarithmic, double logarithmic and other rulings, pin maps, organization charts, work schedule graphs, computation graphs and nomographs, plotting the error area of trends, construction of three-dimensioned surfaces, etc. Data will be drawn from the fields of accounting, advertising, personnel work, credit granting, purchasing, scheduling and the like. Prerequisites: An elementary 3 credits; 1st semester

course in statistics and analytic geometry.

(Palmer)

202a—SEMINAR. An extended original investigation of some specific topic with a view to giving training in methods of research and studying intensively a particular subject in the field of economics.

3 credits; 1st semester (Martin and others)

202b—SEMINAR. Continuation of 202a. 3 credits; 2nd semester (Martin and others) 203—HISTORY OF ECONOMIC THOUGHT. A survey of the history of economic thought from the ancient period to about the end of the Classical School.

Prerequisite: Course 1a.

3 credits; 1st semester (Wiest)

204—ECONOMIC HISTORY OF THE UNITED STATES PRIOR TO 1860. An examination of original sources and class reports; intensive investigation of all the subjects in detail prior to 1860.

Not open to students who had courses 134, and 121-22.

2 credits; 1st semester (Jennings)

205—ECONOMIC HISTORY OF THE UNITED STATES SINCE 1860. A continuation of course 204, but may be taken independently. Not open to students who had 2 credits; 2nd semester courses 134, and 121-22. (Jennings)

206—MUNICIPAL FINANCE. The budget problems of municipalities are analyzed; the debt policies critically examined; and the auditing and reporting plans compared and evaluated. Problems of taxation are dealt with incidentally. Each individual conducts one or more independent investigations.

3 credits; 1st semester (Martin)

207—LITERATURE OF PUBLIC FINANCE. Several of the great masterpieces of government finance are read critically. Each student makes a careful study of one system or of the development of one idea. A reading knowledge of French or German is desirable, but not necessary.

3 credits; 1st semester (Martin)

208—ADVANCED ECONOMIC THEORY. A critical, comparative analysis of "orthodox" economic theory in the light of recent criticism is attempted. The course is built around a comprehensive system of economic theory.

3 credits; 2nd semester (Martin)

209—COMPARATIVE BANKING AND MONETARY SYSTEMS. A comparative study of banking system and monetary policies in the principal countries of the world; emphasis is placed upon present-day organization; the commercial bank with its monetary functions is the main theme of the course, but brief surveys of investment banking systems are also attempted.

3 credits; 2nd semester (Wiest)

 $210-\rm RESEARCH$ STATISTICS. For those who wish to become connected with government, state and industrial research bureaus; particularly devoted to the study of the practical applications of probable error formulae, in estimating the most profitable size of

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samples. Applications will be made in the fields of frequency series, correlation problems, and time series.

Prerequisites: An elementary course in statistics and consent of instructor.

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3 credits; 2nd semester (Palmer)

211—ADVANCED MONEY AND BANKING. A general survey of the subject is attempted with the emphasis upon its historical and theoretical aspects.

3 credits; 2nd semester (Wiest)

EDUCATION PSYCHOLOGY (See Education)
FARM ECONOMICS (See Agriculture)

HISTORY

To become a candidate for the Master's degree in History, the applicant must present twenty semester hours of college history—being the equivalent of the A. R. degree with History as a major in the University of Kentucky.

Applicants for the degree of Doctor of Philosophy who select History as the major field of study will adopt a program in line with the following requirements and suggestions, always subject to the approval of the Department:

Examination for Admittance to Candidacy

Early in the second year of graduate study the applicant will be required to take an examination for admittance to candidacy. This examination will be both written and oral and will cover the course work in both the major and minor fields. In addition, the History Department may require the applicant to present specific fundamental fields even if these have not been covered in course work. The duration of the written examination will be 8 hours in the case of a major and 2 to 3 hours in the minor. There will be an oral examination of not less than 2 hours. Meeting successfully this examination admits the applicant to candidacy following approval by the Dean of the Graduate School.

COMPREHENSIVE ORAL EXAMINATION

Later in his work the candidate will be required to pass a comprehensive written and oral examination in not less than five specified fields of history which have been previously selected with the approval of the Department. The candidate will be expected to show that his knowledge in these fields is of a definitive character. For the purposes of this examination the subject is organized into the following divisions and special fields:

DIVISION I

- 1. The Ancient Orient and Greece.
- 2. Roman History.
- 3. Political and Institutional History of the Middle Ages.

- 4. History of Continental Europe, 1300-1648.
- 5. English History to 1485.

DIVISION II

- 1. English History since 1485.
- 2. History of Continental Europe, 1648-1871.
- 3. History of Continental Europe since 1871.
- 4. History of North America and the U.S. to 1789.
- 5. History of the United States, 1789-1876.
- 6. History of the United States since 1876.

DIVISION III

- The Expansion of Europe.
 The Far East.
- 3. The Near East.
- 4. Latin-America.
- 5. Canada.

In order that the candidate may have a reasonable distribution of the fields for intensive study which will be tested in this examination he must select:

at least 1 field from division I,

at least 2 fields from division II,

and may select one field from division III.

In addition to the specific detailed examination on these selected fields the candidate should understand that he will be expected to have general familiarity with the broader fields of European and American history. 184

FINAL EXAMINATION

After the acceptance of the dissertation by the special committee appointed for this purpose and by the Dean of the Graduate School the candidate shall be given a final oral examination. In this examination the candidate shall be required to defend his thesis and also to present for examination the special field in which the thesis subject lies.

105-COLONIAL AMERICA. A study of the beginnings of the English colonies, the colonial background, political, social and economic development, extension of their frontiers, inter-colonial wars, and external relations with the Dutch, French and Spanish. Emphasis on imperial policies and imperial control and the controversies arising therefrom.

Prerequisite: One year of

3 credits; 2nd semester (Knapp)

American or English history in College.

106-LATIN AMERICA. A rapid survey of the colonial period of Latin America, the struggle for independence, and the development of National problems—political, social, economic. Lectures, text, and readings.

3 credits; 1st semester (Knapp)

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114—THE RENAISSANCE. A study of the Italian Renaissance from 1300 to 1500. The states and cities of Italy and their scholars; general movements, political and other; rise of the modern spirit along the several lines of art and science, education, philosophy, commerce and exploration. Text, lectures, reports.

3 credits; 1st semester (Tuthill)

115—THE RENAISSANCE IN THE NORTH. This course will properly follow Course 114 in tracing the awakening of the new spirit in France, England, and Germany, and in sketching the background of the Reformation period.

Prerequisites: History 4a-b.

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3 credits (Tuthill)

119a—THE FRENCH REVOLUTION AND NAPOLEON. A study of the period 1789-1815 in Europe, treating of the appearance and manifestation of the spirit of revolt. Conditions in France and adjoining nations, the evolution of France from 1778 to 1795 and subsequent changes under Napoleon. Open to juniors, seniors and graduate students, with supplementary reading for the latter.

3 credits; 1st semester (Tuthill)

119b—THE NINETEENTH CENTURY. Starting with the fall of Napoleon, this course treats the successive political changes in 1823, 1830, 1848 and 1871, together with the outstanding commercial, cultural and scientific features of European life after 1815; the expansion of Europe in Africa and Asia, and the reactions upon the great states of the world.

3 credits; 2nd semester (Clyde)

120—THE TWENTIETH CENTURY. A study of recent and contemporary movements, chiefly in Europe. The rise and conflict of the chief colonial empires; European interference and control in Asia and Africa; forces and elements leading up to the great war; general features of the past twenty-five years, including socialism, public education, invention and discoveries. Reports on current literature and assigned reading on a liberal scale.

3 credits; 2nd semester (Tuthill)

226—THE OLD SOUTH. The exploration and settlement of the southern colonies, the development of their political and social institutions and economic interests, the American Revolution in the South, the ratification of the Constitution, and the growth of cotton production. It includes an historical study of the institutions, political philosophy, economic theory, social structure, and politics of the South prior to the Civil War. Lectures, collateral reading, and an essay.

3 credits; 1st semester (Knapp)

 $^{236}\mathrm{-HISTORY}$ OF THE WEST. A study of the westward expansion in the United States and its influence upon the political, social

and economic development of the United States. Lectures, collateral reading and reports.

3 credits (Knapp)

147-RECENT HISTORY OF THE UNITED STATES. An intensive study of the principal movements and episodes in the history of the people of the United States from the Spanish American War to the present.

Prerequisite: One year of

3 credits; 2nd semester (Knapp)

American history.

160-THE CIVIL WAR PERIOD IN KENTUCKY. A close study of neutrality, war and readjustment with emphasis on political, economic, and social developments in Kentucky from 1860 to 1870.

166a—DIVISION AND REUNION, 1850-1877. An intensive study of sectionalism in the United States from 1850 to 1860. The political, military, economic, industrial and educational aspects of the period of the Civil War, and Reconstruction. Emphasis on the problems of the Border States.

3 credits (Knapp)

170-THE ERA OF LOUIS XIV. A study of the general conditions of Western Europe from 1648 to 1715, and particularly of the institutions and power of France under the leadership of Louis XIV, as reflected in the life and culture of Europe and her colonies. Prerequisite: One year of

3 credits (Tuthill)

European history.

184-THE GEOGRAPHIC BASIS OF AMERICAN HISTORY. A study of the relationship of geography to history and the influence of physiography upon the settlement and growth of various regions of the Americas.

Prerequisites: Ten semester

1 credit (Knapp)

hours of American

history.

202—THE AMERICAN REVOLUTION.

3 credits (Knapp)

203—THE FEDERAL CONVENTION OF 1787.

2 credits

206-AMERICAN CONFEDERATION.

3 credits (Knapp)

230—DEVELOPMENT OF THE POPULIST MOVEMENT. A close study of the origin and development of the Populist movement through the last quarter of the 19th century.

3 credits (Knapp)

280-EUROPEAN HISTORIOGRAPHY. A study of the principal

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collections of material bearing on European history together with guides to books and periodicals in various fields. Periods will be chosen according to the needs of students. Lectures, discussions, problems.

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2 credits; 1st semester (Tuthill)

281—AMERICAN HISTORIOGRAPHY. A study of the principal historians of United States and their works; periodical and monographic literature; public documents and collections of source materials; guides to and methods of historical investigation. Lectures, discussions, problems.

2 credits; 2nd semester (Knapp)

282—HISTORICAL CRITICISM. A study of the process of collecting, assembling, criticising and presenting material relating to thesis and seminar courses. A standard treatise will be used.

2 credits (Tuthill)

COURSES IN THE "300" GROUP

SEMINARS—basically research in character. These are not content courses. They provide laboratory training in historical research (collection and critical analysis of bibliography, note-taking and organization of materials, and the presentation of a properly documented thesis). It is desirable that the student take the Senior Seminar before enrolling in "300" courses. 3 hours crdeit. 2 class hours. 1 conference hour.

300a, b, c, d—SEMINAR IN AMERICAN DIPLOMACY.
3 credits (Clyde)

315a, b, c, d—HENRY CLAY.

3 credits (Knapp)

320a, b, c, d—ORIGINS OF THE GREAT WAR.

3 credits (Tuthill)

 340a , b, c, d—SEMINAR IN AMERICAN DIPLOMACY IN THE PACIFIC AREA.

3 credits (Clyde)

365-THE AMERICAN CIVIL WAR.

3 credits (Knapp)

366—RECONSTRUCTION.

3 credits (Knapp)

331—SEMINAR IN MODERN BRITISH HISTORY.

3 credits (Hall)

HISTORY OF EDUCATION (See Education)

MARKETS AND RURAL FINANCE (See Agriculture)

LAW (See Law)

PHILOSOPHY

101a—HISTORY OF PHILOSOPHY. A critical survey of Greek Philosophy and the Philosophy of the Middle Ages.

3 credits; 1st semester (Kuiper)

101b—HISTORY OF PHILOSOPHY. A critical survey of Modern Philosophy from the Renaissance to contemporary times.

3 credits; 2nd semester (Kuiper)

109a—INDEPENDENT WORK IN PHILOSOPHY.
3 credits; 1st semester (Kuiper)

109b—INDEPENDENT WORK IN PHILOSOPHY.
3 credits; 2nd semester (Kuiper)

111a—CONTEMPORARY PHILOSOPHY. A study of contemporary realism, idealism, pragmatism, etc., with special reference to the writings of Bertrand Russell, S. Alexander, F. H. Bradley, B. Bosanquet, Wm. James, John Dewey, and Henri Bergson.

Prerequisites: Philosophy

3 credits; 1st semester (Kuiper)

101a, b.

(Not given 1931-32)

111b—CONTEMPORARY PHILOSOPHY. Continuation of 111a.

*Prerequisites: Philosophy 3 credits; 2nd semester (Kuiper) 101a, b.

(Not given 1931-32)

115—INTERMEDIATE LOGIC. A second course in logic, including an introduction to symbolic logic and its relation to traditional logic.

Prerequisite: Philosophy 31. 3 credits; 1st semester (Kuiper)

118—PLATO AND ARISTOTLE. A study in English of the chief dialogues of Plato, and of Aristotle's Ethics, Politics, and Metaphysics.

3 credits; 2nd semester (Kuiper)

201a—SEMINAR IN PHILOSOPHY. One two-hour meeting a week for discussion of current developments in Philosophy as found in recent books as well as in periodicals.

1 credit; 1st semester (Kuiper)

201b—SEMINAR IN PHILOSOPHY. Continuation of 201a. 1 credit; 2nd semester (Kuiper)

Note:—Other courses such as Epistemology, Aesthetics, Philosophy of Religion, and special periods in the History of Philosophy will be given from time to time.

PHILOSOPHY OF EDUCATION (See Education)

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POLITICAL SCIENCE

The Political Science Department offers courses leading to M. A. and Ph. D. degrees.

The student who holds a baccalaureate degree from a standard college is eligible to enter the department as a candidate for an advanced degree. An A. B. or B. S. degree is the only definite prerequisite for entering graduate study in the field of political science. However, students who are deficient in their social science background must make up such deficiencies before they will be recommended for a degree by the department. Students entering with these deficiencies will find the work more difficult, and the period required for the completion of the degree longer than if there were no deficiencies in the social science background. The applicant may remove such deficiencies by private study or by taking undergraduate courses. Each individual case is handled on its own merits.

101-LATIN AMERICAN RELATIONS.

3 credits (Vandenbosch)

150—INTERNATIONAL LAW.

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3 credits (McVey or Vandenbosch)

154—COUNTY GOVERNMENT.

3 credits (Manning)

155a—COMPARATIVE GOVERNMENT.

3 credits (Jones)

155b—COMPARATIVE GOVERNMENT. Continuation of 155a.

3 credits (Jones)

156-COLONIAL GOVERNMENT.

3 credits (Vandenbosch)

157—CITY ADMINISTRATION.

3 credits (Manning)

158—PUBLIC UTILITIES.

3 credits (Manning)

164—AMERICAN FOREIGN SERVICE AND INTERNATIONAL

ORGANIZATION.

3 credits (Vandenbosch or Walp)

165-WORLD POLITICS.

3 credits (Blanding)

171-POLITICAL THEORY.

3 credits (Vandenbosch or Cole)

201a—SEMINAR.

2 credits (Jones)

201b—SEMINAR.

2 credits (Jones)

202—SCOPE AND METHOD IN POLITICAL SCIENCE.
3 credits (Vandenbosch or Cole)

(Given 1931-32 and alternate years.)

203—PUBLIC ADMINISTRATION.

3 credits (Manning)

(Given 1931-32 and alternate years.)

205-FREEDOM OF THE SEAS.

3 credits (Vandenbosch)

207—IMPERIALISM AND NATIONALISM.

3 credits (Blanding)

(Given 1931-32 and alternate years.)

210—SUPREME COURT AND POLITICS.

3 credits (Cole)

211—INTERNATIONAL ADMINISTRATIVE BODIES.

3 credits (Vandenbosch or Walp)

(Given 1932-33.)

212-MUNICIPAL FRANCHISES.

3 credits (Manning)

(Given 1930-31 and alternate years.)

213—FEDERAL CENTRALIZATION.

3 credits (Jones)

(Given 1930-31 and alternate years.)

215—ADMINISTRATION OF JUSTICE.

3 credits (Manning)

216—TYPES OF POLITICAL ORGANIZATIONS.

3 credits (Cole)

255—COMPARATIVE GOVERNMENT.

3 credits (Jones)

(Given 1931-32 and alternate years.)

PSYCHOLOGY

The department has accumulated for a number of years a mass of test records of the intelligence, special abilities and achievements of students in all the colleges of the University. It also has estimates of personal traits and the histories of many students. Taken together, these afford a rare opportunity for graduate work in student personnel problems. The director and executive secretary of the University Personnel Bureau are also affiliated with the department.

Another field in which special facilities are provided is that of

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the psychological clinic. The department has maintained such a clinic for years. It has established close contacts with the public schools, the welfare agencies, the Eastern State Hospital for the Insane, the reformatory institutions, and the State Institution for the Feeble-Minded, all of which are located at or near Lexington.

The department undertakes special research in business and industrial personnel problems and in the development and training of normal children. It is well equipped for experimental and statistical studies in these fields. Connected with the department is a Kentucky Station of the Psychological Corporation, a national organization for conducting authoritative work in applied psychology.

The experimental laboratory is especially equipped for the objective determination of emotions, their relation to perceptual acts, sets, drives, conditioning, etc. Research may be attacked also on lower animals with facilities provided in the animal house.

Apparatus, test equipment, and library facilities are available for advanced work in the following list of courses for which a year's work in general psychology is a prerequisite:

104—SOCIAL PSYCHOLOGY. Description and explanation of social phenomena in terms of the original and acquired reaction systems of the individual. So-called types are characterized in respect to the social problems they afford. Topics given special consideration: crowds, mob behavior, propaganda, and nationalism.

3 credits; 1st semester (Dimmick)

114—ABNORMAL PSYCHOLOGY. Atypical conduct and thinking are studied from both the theoretical and the practical points of view. The major psychoses and neuroses are given special consideration. Some opportunity for clinical observation is provided.

3 credits; 2nd semester (Dimmick)

111—MENTAL MEASUREMENTS. An analysis and interpretation of individual and group tests of general mental ability. History and significance of the testing movement; construction and evaluation of group tests.

3 credits; 1st semester (Dimmick)

109a—DIAGNOSIS OF DEVELOPMENT. Provides for acquisition of technique in the administration of well-known individual tests and scales which furnish criteria of the levels of intellectual and emotional development. Emphasis is placed upon the Standard Revision and the Herring Revision of the Binet-Simon Scale.

Prerequisite: Psychology 111.

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2 credits; either semester (Dimmick)

109b-DIAGNOSIS OF DEVELOPMENT. A continuation of 109a in respect to aims. Training is given in the administration of

standardized performance tests and scales and in the interpretation of the data yielded by these.

Prerequisite: Psychology 111.

2 credits; either semester (Dimmick)

116—COMPARATIVE PSYCHOLOGY. Two hours of lectures, two hours of laboratory a week. A survey of the field of animal behavior with special reference to experimental technique. Opportunity for research experience in an animal laboratory. Topics include problems of heredity and environment, activity, instinct, motivation, learning sensory discrimination, and personality in sub-human species. Relationships to human problems indicated.

3 credits; 2nd semester (Newbury)

119—PSYCHOLOGICAL CLINIC. Two hours lecture and discussion. A survey of clinical work on the diagnosis and adjustment of problem children and adults. The course gives a background for social, mental hygiene, and clinical work.

2 credits; 2nd semester (Dimmick)

110—EXPERIMENTAL PSYCHOLOGY. Experimental techniques and their application to present psychological problems. The student is encouraged to select his own problems. Example of such problems are: effect of changed surroundings on learning; peripheral retinal sensitivity; binocular fuson. One hour lecture; four hours laboratory.

3 credits; 2nd semester (White)

113—PSYCHOLOGY OF LEARNING. An experimental study of the learning process together with an analysis of the types of learning. One hour lecture; four hours laboratory.

3 credits; 1st semester (White)

112—PERSONNEL ADMINISTRATION. The functions of personnel work in business and industry. The selection and placement of employes, their training, supervision and motivation; the scientific study of work and fatigue. Given in alternate years with 221.

3 credits; 2nd semester (Miner)

120a-d—INDEPENDENT WORK IN PSYCHOLOGY. Designed for advanced students and graduates who undertake minor research problems to be conducted in regular consultation with the instructor. A minimum of six hours time per week is required.

2 credits; both semesters (Miner and others)

Courses open only to Graduate Students

201a—SEMINAR IN PSYCHOLOGY. One two-hour discussion each week of research under way by graduate students and members of the staff.

1 credit; 1st semester (Miner and the staff)

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201b, c, etc.—SEMINAR IN PSYCHOLOGY. Continuation of 201a.

These numbers are provided for registration in succeeding semesters.

1 credit; either semester (Miner and the staff)

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210a—RESEARCH IN PSYCHOLOGY. Research or thesis work may be registered under this number. A minimum of nine hours per week is required on research conducted in consultation with the instructor.

3 credits; 1st semester (Miner and others)

210b, c, etc.—RESEARCH IN PSYCHOLOGY. Continuation of research. These numbers are provided for registration in succeeding semesters.

3 credits; either semester (Miner and others)

211—MENTAL WORK AND FATIGUE. A laboratory course. Four hours devoted to experiments and one hour discussion. Prerequisites, an advanced course in experimental psychology and elementary statistics or their equivalent.

3 credits; 1st semester (White)

212—THE EMOTIONS. A laboratory course. Four hours devoted to experiments and one hour discussion. Prerequisites, an advanced course in experimental psychology and elementary statistics or their equivalent.

3 credits; 2nd semester (White)

213—THE OBSERVATION PROCESSES. A laboratory course. Four hours devoted to experiments and one hour discussion. Prerequisites, an advanced course in experimental psychology and elementary statistics or their equivalent.

3 credits (White)

215—MEASUREMENTS OF HUMAN RELATIONSHIPS. An advanced course which considers the treatment and interpretation of human measurements. The course deals with the computation and interpretation of simple, partial and multiple correlations, regressions, equations, and reliability of measures.

3 credits; 2nd semester (Asher)

217—PSYCHOLOGY OF LANGUAGE. An experimental course dealing with both written and spoken language. The development and physical basis of language, together with its function in thought processes. The main emphasis will be placed upon the experimental phases of the subject. Two hours lecture and two hours laboratory. (Not Given 1932-33)

3 credits; 2nd semester (White)

218—SYSTEMATIC PSYCHOLOGY. An historical and critical study of fundamental concepts and current schools of psychology with a view to their evaluation.

3 credits; 1st semester (Miner)

221—STUDENT PERSONNEL. The methods of dealing with student personnel problems in college and high school, including the problems of selection, classification, sectioning of classes, grading, personal adjustment, motivation, guidance and vocational placement. The functions of a personnel officer. Given in alternate years with 112.

3 credits; 2nd semester (Miner and Beaumont)

Note: Other courses such as Human Measurements, Genetic Psychology, Psychological Interpretation, Etc., will be given from time to time.

SOCIOLOGY

101—SOCIAL DEPENDENCE. A study of poverty and social dependence, and of measure of relief afforded through philanthropic agencies, or organized charity, together with general or special measures for the prevention, elimination, or reduction of poverty, and for social betterment.

3 credits; 1st semester (Best)

102—SOCIAL PATHOLOGY. A study of mortality rates, of diseases and accidents, and of mental and physical defectiveness, from a sociological point of view, together with a consideration of general social measures for prevention and treatment.

3 credits; 2nd semester (Best)

[Not Given 1931-32]

103—CRIMINOLOGY. A study of general conditions as to crime and delinquency, of measures of punishment and reform of the prisoner, of criminal procedure and its possible reform, and of measures for the prevention of crime.

3 credits; 1st semester (Best)

105—SOCIAL SYSTEMS. A study of social systems that have existed or have been proposed from early times, together with an examination of the theories of representative sociologists.

3 credits; 1st semester (Best)

[NOT GIVEN 1931-32]

106—AMERICAN IMMIGRATION. A study of immigrant peoples and races in the United States, and of their general effects upon American life, together with an examination of a general national policy upon the subject.

3 credits; 2nd semester (Best)

107—COMMUNITY WELFARE WORK. A limited social service course involving a study, with practical observations, of actual social conditions among local communities, of the work of agencies and organizations dealing with them, and of general measures for their improvement.

3 credits; 1st semester (Best)

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al nd ir $_{\rm 109-THE}$ FAMILY. A study of the family, both in its historical $_{\rm aspects}$ and in connection with the problems before it under modern conditions.

3 credits; 1st semester (Best)

112—COMMUNITY ORGANIZATION. A study of the theory and of practical results of organization among individuals and among different agencies in the community for the advancement of its life. 3 credits; 2nd semester

201a—SOCIOLOGY SEMINAR. Consideration mainly of theses, methods of research, and current sociological literature.

1 credit; 1st semester (Best)

201b—SOCIOLOGY SEMINAR. Continuation of 201a. 1 credit; 2nd semester (Best)

III. BIOLOGICAL SCIENCES

AGRONOMY (See Agriculture)

ANATOMY AND PHYSIOLOGY

105a—HUMAN OSTEOLOGY. The study begins with the development of the skeleton. This is followed by the process of ossification and the histology of bones. Each bone of the body is studied in detail, drawings being made from the bone. The bones surveyed during this division of the course are: Those of the face and cranium; vertebrae; ribs; sternum; hyoid. The work may be amplified to most any extent and some comparative anatomy included. Recitation, one hour a week; laboratory, four hours a week.

3 credits; 1st semester (Allen, Sherwood)

105b—HUMAN OSTEOLOGY. Continuation of A-P 105a. The bones of the upper and lower extremities (arm and leg) including the pectoral and pelvic girdles are thoroughly studied, detailed drawings of each bone being made from furnished specimens. Recitation, one hour a week; laboratory, four hours a week.

3 credits; 2nd semester (Allen, Sherwood)

106a—ENDOCRINOLOGY. This is the study of the glands of internal secretion or endocrine glands. Each gland is introduced with the consideration of its anatomical location and structure, gross and microscopic. This is followed by a comprehensive study of its functions, including the normal activity, hyperactivity and hypoactivity. The foregoing are demonstrated to the class. Recent scientific articles bearing upon the subject are reviewed and discussed. The glands taken up in this course are the thyroid, parathyroids, thymus and supraenals. Lectures, demonstrations and recitations.

Prerequisites: A+P 1a and 1 or 3 credits; 1st semester (Allen)
2a and 2b; Zoology 7b;
Chemistry 1a and 1b: and

Chemistry 1a and 1b; and the consent of the instructor.

106b—ENDOCRINOLOGY. Continuation of 106a. The endocrine glands which are studied are the pituitary, pancreas, organs of reproduction and pineal. Lectures, demonstrations and recitations. Prerequisites: A+P 1a and 1b or 3 credits; 2nd semester (Allen)

2a and 2b; Zoology 7b; Chemistry 1a and 1b; and the consent of the instructor.

 $107a\mathrm{--ADVANCED}$ ANATOMY. An introduction to the anatomy of the nervous system. The aim of this course is to provide an intro-

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tion tory, Prere ductory laboratory course on the form, structure and functional arrangements of the nervous system for students of biology, physiology, psychology and those who are planning the study of the medical sciences. The work of this course includes a careful study of the nervous systems of lower vertebrates, namely, fishes, amphibia and reptiles. Recitations and lectures, one hour a week; laboratory, four hours a week.

Prerequisies: A+P 1a and 1b 3 credits; 1st semester (Sherwood) or the equivalent.

107b—ADVANCED ANATOMY. Continuation of 107a. Special consideration is given to the structure of the mammalian brain in which the conductive systems are most completely organized. Recitations and lectures, one hour a week; laboratory, four hours a week. Prerequisite: A+P 107a. 3 credits; 2nd semester (Sherwood)

the medical sciences. In the course, graphic records which show the character of contraction of muscle (skeletal and smooth) are made. This is followed by observing the different factors that vary the character of the contraction. Experiments are performed to show that muscle is a thermogenic and an electrogenic organ. The nervous system which includes the structures and functions of the spinal cord, the medulla oblongata, the cerebellum, the cerebrum and the autonomic system are taken up in great detail. The course will close with an intensive study of the special sense-organs. Practically half of the semester will be devoted to the nervous system. Lectures, recitation. three hours a week; laboratory, four hours a week.

Prerequisites: A+P 1a and 1b or the equivalent; Chemistry 1a and 1b; Physics 1a and 1b; also, the consent of the instructors.

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5 credits; 1st semester
(Allen, Sherwood)

108b—ADVANCED PHYSIOLOGY. This is a continuation of 108a. The course is opened with the study of the circulatory system. Much time is given to the consideration of the mechanics of the heart, its nervous regulation and the functional peculiarities of its tissues. The mechanics of the circulation (hemodynamics) which includes the nervous regulation of the blood vessels are also surveyed. Other subject material to be covered consists of the respiratory system; the gastro-intestinal tract with its secretory organs; the processes of digestion, absorption, excretion, heat production; voice and the production of speech. Lectures and recitation, three hours a week; laboratory, four hours a week.

Prerequisite: A+P 108a.

5 credits; 2nd semester (Allen, Sherwood)

116a—SEMINAR IN ANATOMY AND PHYSIOLOGY. All students who are majoring in the Department are required to take this course. At each meeting of the Seminar, an assigned scientific article of physiological or anatomical subject-matter will be reviewed thoroughly by a member of the seminar and then discussed in general. In addition to the foregoing, each member of the seminar will be required to follow closely the current publications bearing upon the subjects of the class and present brief reports of such articles which are of interest. One two-hour discussion period a week.

Prerequisites: A+P 1a and 1b 1 credit; 1st semester or the equivalent. (Allen, Sherwood)

116b—SEMINAR IN ANATOMY AND PHYSIOLOGY. Continuation of 116a. One two-hour discussion period a week.

Prerequisites: A+P 1a and 1b 1 credit; 2nd semester or the equivalent. (Allen, Sherwood)

201a—RESEARCH IN PHYSIOLOGY. The pursuit of an assigned problem in which the student will have the opportunity to demonstrate originality. Conference and laboratory, ten hours a week.

Prerequisites: A+P 1a and 1b or the equivalent; Chemistry 127a and 127b (131a and 131b desirable); Physics, one year.

5 credits; 1st semester (Allen, Sherwood)

201b—RESEARCH IN PHYSIOLOGY. Continuation of 201a. Conferences and laboratory, ten hours a week.

Prerequisites: A+P 1a and 1b or the equivalent; Chemistry 127a and 127b (131a and 131b desirable); Physics, one

5 credits; 2nd semester (Allen, Sherwood)

ANIMAL INDUSTRY (See Agriculture)

ANIMAL PATHOLOGY (See Agriculture)

ANTHROPOLOGY AND ARCHAEOLOGY

101—PRINCIPLES OF ANTHROPOLOGY. Fundamental principles of anthropology; relationships of physical anthropology, anthropometry, ethnology, ethnography and archaeology; anthropology of the New World; North American prehistory; ancient human occupation in the Mississippi Valley; outline of man's prehistoric past in Kentucky; anthropological studies of Kentucky materials.

2 credits; 1st semester (Funkhouser)

102—KENTUCKY ARCHAEOLOGY. Review of archaeological research in the United States; prehistoric cultures of the Mississippi

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Valley; development of ancient crafts; methods of classification of artifacts; significance of neolithic tools, weapons and problematical forms; a study of the artifacts and cultures represented in Kentucky.

**Prerequisite: A & A 101a. 2 credits; 2nd semester (Webb)

BACTERIOLOGY

102—GENERAL BACTERIOLOGY. Morphology, classification, physiology, observation and cultivation of bacteria and related micro-organisms; their relation to certain fermentations and to the preservation of food; their influence on the plant food in the soil. Micro-organisms in milk, water, air, and soil. Relation of micro-organisms to disease; sources and modes of infection; use of germicidal agents; theories of immunity.

Prerequisite: Chemistry 1b.

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4 credits; 2nd semester (Scherago, Weaver and assistants)

103—PATHOGENIC BACTERIOLOGY. Cultivation, morphology, means of identification, powers of resistance, pathogenesis, distribution, channels of infection and means of dissemination of pathogenic microorganisms, especially those related to specific infectious diseases of man and animals. Study of preparation, standardization, and uses of vaccines, toxins, antitoxins, and other biological products related to the diagnosis, prevention and treatment of specific infectious diseases. Application of the various phenomena of immunity in the diagnosis of infectious diseases; agglutination, precipitation, and complement fixation reactions. Anaphylaxis.

Prerequisites: Bacteriology 52 or 102, or 2b and

4 credits; 1st semester
(Scherago and assistants)

Chemistry 1b.

104-APPLIED BACTERIOLOGY. A course in bacteriological analysis to supplement courses 52 or 102.

Prerequisites: Bacteriology 2b and Chemistry 1b or Bacteriology 52 or 102.

2 credits; 2nd semester (Weaver and assistants)

106—BACTERIOLOGY OF FOODS. Microbiology of milk and milk products, eggs, tomato products, meat and meat products; food preservation; bacterial food poisoning.

Prerequisites: Bacteriology 2b and Chemistry 1b, or Bacteriology 52 or 102.

4 credits; 1st semester (Weaver)

107—BACTERIOLOGY OF WATER AND SEWAGE. The microflora of water; importance of the colon-typhoid group of bacteria on water; methods of water analysis and interpretation of results; special media used in isolating and identifying the colon-tyhoid group of bacteria; methods of water purification; microflora of sewage; methods of sewage analysis; methods of sewage disposal; bacteriological study of swimming pools; methods of analysis; effect of treatment on bacteriological content; regulations concerning swimming pools. Water purification plants, sewage disposal plants and swimming pools will be visited and studied.

Prerequisites: Bacteriology 2b and Chemistry 1b, or Bacteriology 52 or 102.

4 credits; 2nd semester (Weaver)

110a-LABORATORY DIAGNOSIS. Laboratory methods in the diagnosis of disease. Designed for students taking the course in Medical Technology.

Prerequisite: Bacteriology 103.

3 credits; 2nd semester (Scherago)

110b-LABORATORY DIAGNOSIS. A continuation of 110a. 3 credits; 2nd semester (Scherago)

111-GENERAL PATHOLOGY. A general course in Pathology, consisting of lectures, demonstrations, recitations and laboratory work. The laboratory work comprises examination of gross specimens and microscopic examination of morbid tissue. Emphasis will be placed on pathological technique and on the study of pathological histology. 4 credits; 2nd semester Prerequisites: Physiology 1a and 1b; Zoology 7b. (Scherago)

115-INDIVIDUAL WORK. Students will be assigned special problems in laboratory work and reference reading. Prerequisite: Any Bacteriology 3 credits (Scherago, Weaver)

course above 102.

125-IMMUNOLOGY AND SEROLOGY. The theories and mechanism of immunity. The production of antitoxin, agglutinins, bacteriolysins, opsonins, precipitins, hemolysins, and cytotoxins; their practical applications; the preparation of their homologous antigens. The study of ferments and antiferments; the study of hypersensitive ness.

Prerequisite: Bacteriology 103.

5 credits; 2nd semester (Scherago)

150a and c-SEMINAR.

1 credit; 1st semester (Scherago, Weaver)

150b and d-SEMINAR.

1 credit; 2nd semester (Scherago, Weaver)

201a—RESEARCH IN BACTERIOLOGY.

5 credits; 1st semester (Scherago, Weaver)

201b—RESEARCH IN BACTERIOLOGY. A continuation of course 201a.

5 credits; 2nd semester (Scherago, Weaver)

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BOTANY

 $106a\mathrm{--}\mathrm{SPECIAL}$ PROBLEM. The qualified student will be assigned some problems for solution.

3 credits (McFarland, McInteer)

106b—SPECIAL PROBLEM. A continuation of 106a.

3 credits (McFarland, McInteer)

111—CLASSIFICATION OF PARASITIC FUNGI. Entire time will be taken up in studying the fungi that cause diseases of plants, both cultivated and wild.

1 credit (McFarland)

125a—MORPHOLOGY OF FUNGI. A detailed study of the differ ent types of fungi from the standpoint of morphology, cytology and physiology.

4 credits (McFarland)

125b—MORPHOLOGY OF FUNGI. A continuation of 125a. 4 credits (McFarland)

126a—MYCOLOGY. A course which employs the entire time of the student in identification of unknowns.

4 credits (McFarland)

126b—MYCOLOGY. A continuation of 126a.

4 credits (McFarland)

150a—ADVANCED SYSTEMATIC BOTANY. A continuation of course 105, but more work and more difficult plants are studied.

5 credits (McFarland, McInteer)

150b—ADVANCED SYSTEMATIC BOTANY. A continuation of 150a.

5 credits (McFarland, McInteer)

206a-RESEARCH IN MORPHOLOGY.

5 credits (McFarland, McInteer)

206b—RESEARCH IN MORPHOLOGY. A continuation of 206a. 5 credits (McFarland, McInteer)

207a—RESEARCH IN MYCOLOGY.

5 credits (McFarland)

207b—RESEARCH IN MYCOLOGY. A continuation of 207a. 5 credits (McFarland)

210a-RESEARCH IN PLANT PHYSIOLOGY.

5 credits (McFarland)

 $^{210b}\!\!-\!\!\mathrm{RESEARCH}$ IN PLANT PHYSIOLOGY. A continuation of $^{210a}\!.$

5 credits (McFarland)

213a—RESEARCH IN SYSTEMATIC BOTANY.

5 credits (McFarland, McInteer)

213b—RESEARCH IN SYSTEMATIC BOTANY. A continuation of 213a

5 credits (McFarland, McInteer)

ENTOMOLOGY (See Agriculture)

HORTICULTURE (See Agriculture)

HYGIENE AND PUBLIC HEALTH

The Department of Hygiene and Public Health does not at this time give advanced work leading to a degree in public health. The courses listed below are available as minors for students who wish to become candidates for graduate degrees in related departments.

105—ADVANCED HYGIENE. A more detailed study of the material covered in Hygiene 1, with preparation of papers and reports.

Prerequisite: Hygiene 1. 2 credits; 1st semester

(Chambers, Heinz)

110—HEALTH EDUCATION AND HEALTH SUPERVISION OF SCHOOLS. A course designed primarily for Education students dealing with the essentials of Health Supervision and Health Inspection of schools.

Prerequisites: Hygiene 1, 105.

3 credits; 2nd semester (Chambers, Heinz)

112—PUBLIC HEALTH ADMINISTRATION. Lectures, discussions, and reports dealing with Federal, State, and Municipal Health Administration and Organization.

Prerequisite: Hygiene 1. 3 credits; 2nd semester (Heinz)

113—VITAL STATISTICS. A study of the part Vital Statistics plays in the problems of Modern Public Health, with emphasis on population, collection of Vital Statistics and their interpretation.

Prerequisite: Hygiene 1. 3 credits; 1st semester (Heinz)

114—INDUSTRIAL HYGIENE A course dealing with the general problem of industrial sanitation, occupational diseases, accidents and welfare of the industrial worker, industrial medical service, etc.

*Freequisite: Hygiene 1. 3 credits; 2nd semester (Heinz)

115—EPIDEMIOLOGY. Lectures, discussion, and reports on the occurrence of epidemics of disease, the scope, theories, and practices of modern epidemiology.

Prerequisite: Hygiene 1. 3

3 credits; 1st semester (Heinz)

116—SOCIOLOGIC AND ECONOMIC ASPECTS OF DISEASE.

Prerequisite: Hygiene 1. 3 credits; 2nd semester (Heinz)

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ZOOLOGY

101a—HISTOLOGY. Histology of the tissues. Lectures and laboratory work on the preparation of material for microscopic study. The latter part of the course is designed to acquaint the student with microscopic manipulation and at the same time familiarize him with the tissues of the animal body.

Prerequisites: Zoology 1a-b. 3 credits; 1st semester (Brauer)

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101b—HISTOLOGY. Histology of the organs. A continuation of course 101a. Lectures and laboratory work on the microscopic anatomy of the animal body.

Prerequisite: Zoology 101a. 3 credits; 2nd semester (Brauer)

102—ORNITHOLOGY. A study of the life histories, anatomy and physiology and taxonomy of birds with particular reference to the habits, songs, eggs, nests, migrations and economic importance of our native birds.

3 credits (Funkhouser, Allen)

105—MEDICAL ENTOMOLOGY. Insects (and briefly other animals) affecting the health and comfort of man. Identification, life histories and etiology of many important species. Methods of study and methods of control. For pre-medical students.

3 credits; 1st semester (Allen)

106—EMBRYOLOGY. A general course in ontogeny. Lectures on maturation, fertilization, cleavage, organogenesis, and anomalies of development. The laboratory work consists of a study of the germ cells, maturation, cleavage and development of the chick and of the pig.

4 credits; 2nd semester (Brauer)

107a—COMPARATIVE ANATOMY. Invertebrates. (1) Systematic consideration of all important phyla, classes, orders, and a few families.
(2) Dissection of a few types not previously studied. (3) Identification and drawings of external aspects of many genera. (4) Life histories. (5) Comparative organology and physiology of higher phyla.

4 credits; 1st semester (Allen)

107b—COMPARATIVE ANATOMY. Vertebrates. (1) Systematic consideration of classes, orders, and some families of Vertebrata.
(2) Detailed dissection of types not previously studied. (3) Comparative organology and (briefly) physiology of the several classes.
(4) Preparation of charts and diagrams of nervous systems, urinosenital systems, and vascular systems. (5) Identification and demonstration of the bones of at least the Mammalian skeleton.

4 credits; 2nd semester (Allen)

 $108a\mathrm{-PRINCIPLES}$ OF ZOOLOGY. An advanced lecture course $^{\mathrm{Open}}$ only to juniors, seniors and graduate students on the funda-

mental principles of biology. The first semester is devoted primarily to the study of organic evolution.

2 credits; 1st semester (Funkhouser)

108b—PRINCIPLES OF ZOOLOGY. A continuation of 108a. The second semester is devoted to the study of heredity, eugenics and animal instincts.

2 credits; 2nd semester (Funkhouser)

110a—INDIVIDUAL WORK. Special problems for individual students who are capable of pursuing independent investigations.

3 credits (Funkhouser, Allen, Brauer)

110b—INDIVIDUAL WORK. A continuation of 110a.

3 credits (Funkhouser, Allen, Brauer)

112—ICHTHYOLOGY. (1) Taxonomy of the fishes. Use of keys and literature. Drawing types of families. (2) Life histories and biology of many type species, illustrated by photographs. (3) Fish structure and physiology. (4) Fish culture and economic ichthyology; care of fishes, aquaria, etc. (5) Special studies, such as blind fishes, deep sea fishes, etc.

3 credits; 1st semester (Allen)

114—ZOOLOGICAL SEMINAR. (1) Occasional presentation of the results of research by members. (2) Reports on papers of technical or semi-technical nature in the current literature. (3) Occasional book reviews. (4) Discussion of biological principles and phenomena. (5) Biological news notes.

1 credit (Funkhouser, Allen, Brauer)

 $201a\mbox{--HERPETOLOGY}.$ Systematic and taxonomic studies of the Reptilia. For graduate students only.

3 credits; 1st semester (Funkhouser)

201b—HERPETOLOGY. A continuation of 201a. 3 credits; 2nd semester (Funkhouser)

202a—SYSTEMATIC ENTOMOLOGY. Research work on special groups of insects requiring advanced study in the literature of the subject and designed for students who desire to specialize in entomology. For graduate students only.

4 credits; 1st semester (Funkhouser)

202b—SYSTEMATIC ENTOMOLOGY. A continuation of 202a. In the second semester special attention is paid to entomotaxy and the bibliography of the group studied.

4 credits; 2nd semester (Funkhouser)

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IV. PHYSICAL SCIENCES

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202a. I the 101—PHYSICAL CHEMISTRY. For students in Agriculture and the biological sciences.

Prerequisites: Chemistry 7 and 8, 5 credits; either semester
Physics 1b, Mathematics 3 or 4. (Bedford)

102—ELECTRO CHEMISTRY. Elementary, electro-analysis, electroplating and preparation of some inorganic and organic substances by electrolysis.

Prerequisites: Chemistry 101 5 credits; either semester or 131b, 109, 127b. (Bedford)

104—SYNTHETIC INORGANIC CHEMISTRY. An intermediate course planned to aid the student in gaining a more adequate knowledge of practical inorganic chemistry. Elective.

5 credits; 2nd semester (Maxson)

106—ADVANCED ORGANIC CHEMISTRY. A laboratory course which includes the preparation of compounds of theoretical, biological and industrial importance together with references to the original literature, conferences and reports.

Prerequisite: Chemistry 127b. 5 credits (Barkenbus)

107—SELECTED PROBLEMS IN QUANTITATIVE ANALYSIS.

Prerequisite: Chemistry 114. 5 credits; 2nd semester (Tuttle)

108—COLLOID CHEMISTRY. A course involving the preparation of colloids and study of the physical and chemical properties of matter in the colloidal state.

5 credits; either semester (Maxson)

109—QUANTITATIVE ANALYSIS. A lecture and laboratory course devoted to the analysis of ores, alloys, etc.

Prerequisite: Chemistry 8. 5 credits; either semester (Tuttle)

110—PHYSICAL CHEMISTRY. Intermediate course.

Prerequisites: Chemistry 131b. 3 credits; either semester
and Calculus. (Bedford)

111—PHYSICAL CHEMISTRY. Intermediate course.

Prerequisite or concur2 credits; either semester
rent: Chemistry 110. (Bedford)

112—ADVANCED AGRICULTURAL ANALYSIS. A laboratory course having for its object the complete analysis of fertilizers, feeds, soils and agricultural products.

Prerequisite: Chemistry 8. 4 credits; 2nd semester (Tuttle)

114—ADVANCED QUANTITATIVE ANALYSIS. The analysis of iron and steel, slags and rocks.

5 credits; either semester (Tuttle)

118—WATER ANALYSIS. In this course waters are examined to determine their fitness for domestic and other purposes.

2 credits; 1st semester (Tuttle)

119a—INDUSTRIAL CHEMISTRY. A survey course on modern industrial chemistry using text as a basis for discussion.

2 credits; 1st semester (Maxson)

119b—INDUSTRIAL CHEMISTRY. A continuation of 119a. 2 credits; 2nd semester (Maxson)

122a—JOURNAL CLUB. Conferences and reports on chemical literature and training in the use of literature for research purposes.

1 credit; 1st semester (Maxson)

122b—JOURNAL CLUB. A continuation of 122a.

1 credit; 2nd semester (Maxson)

127a—ORGANIC CHEMISTRY. Recitations and lectures in the aliphatic series together with laboratory work on the preparation and study of such compounds as will emphasize basic principles and important synthetic methods.

Prerequisite: Chemistry 1b. 5 credits: 1st semester (Barkenbus)

127b—ORGANIC CHEMISTRY. A continuation of Chemistry 127a. Cyclic series.

Prerequisite: Chemistry 113a. 5 credits; 2nd semester (Barkenbus)

129—FOOD CHEMISTRY AND ANALYSIS. The composition, adulteration and preservation of food. Laboratory practice on the analysis of milk, sugar, baking powder, vinegar, alcoholic beverages, fats, etc.

Prerequisites: Chemistry 7 or 127a and 8.

5 credits; 1st semester (Tuttle)

130a—PHYSIOLOGICAL CHEMISTRY. The chemistry and metabolism of carbohydrates, proteins and fats. A study of the tissues, the secretions and excretions. The nature and action of enzymes. Nutrition, food values and requirements. The effects of a diet of selected food principles on the quantity of metabolic products.

Prerequisite: Chemistry 5 credits; 1st semester 7 or 127a. (Barkenbus)

130b—PHYSIOLOGICAL CHEMISTRY. A continuation of 130a. 5 credits; 2nd semester (Barkenbus)

131a—INTRODUCTORY COURSE IN PHYSICAL CHEMISTRY.

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206 Prerequ Based upon the fundamental laws of chemistry. Determination of atomic and molecular weights; gaseous, liquid and solid states of matter, solution, ideal and ionized; Thermo-chemistry.

4 credits; 1st semester (Bedford)

131b—INTRODUCTORY COURSE IN PHYSICAL CHEMISTRY. A continuation of 131a. Homogeneous and Hetrogeneous Equilibria; Chemical Kinetics; Structure of Matter; Periodic Law; Radio-Chemistry; Colloids; Electro-Chemistry.

Prerequisite: Chemistry 131a. 4 credits; 2nd semester (Bedford)

 $150\mathrm{--ADVANCED}$ INORGANIC CHEMISTRY. A survey course covering the less common side of inorganic chemistry including laboratory work in synthesis.

Prerequisite: Chemistry 131b. 4 credits; 2nd semester (Maxson)

201—SYNTHETIC INORGANIC CHEMISTRY. Practice and research in inorganic synthesis, with use of original literature.

5 credits; either semester (Maxson)

202—QUANTITATIVE ANALYSIS. A critical study of known procedures and research in analytical chemistry.

5 credits; either semester (Tuttle)

204a—ORGANIC CHEMISTRY. A laboratory course with conferences on special problems in organic chemistry.

Prerequisite: Chemistry 106. 5 credits; either semester (Barkenbus)

204b—ORGANIC CHEMISTRY.

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Prerequisite: Chemistry 204a. 5 credits; either semester (Barkenbus)

205a—ADVANCED PHYSICAL CHEMISTRY. Lectures on selected topics.

Prerequisites: Chemistry 131b and 2 credits; either semester (Bedford)

 $205b{\rm --ADVANCED}$ PHYSICAL CHEMISTRY. (Continuation of 205a.) Lectures on selected topics.

2 credits; either semester (Bedford)

206a—ADVANCED PHYSICAL CHEMISTRY. Laboratory course
on selected topics in Advanced Physical or Electro-Chemistry.

Prerequisite or concurrent: Chemistry 205a.

3 or more credits; either
semester (Bedford)

206b—ADVANCED PHYSICAL CHEMISTRY. Continuation of 206a.

Prerequisite or concur206b—ADVANCED PHYSICAL CHEMISTRY. Continuation of 206a.

3 or more credits; either
206b—Remistry 205b.

3 or more credits; either
206b—Remistry 205b.

207a—SYSTEMATIC INORGANIC CHEMSTRY. Lectures and conferences, two hours a week.

Prerequisite: Chemistry 131b or its equivalent.

2 credits; either semester (Maxson

207b—SYSTEMATIC INORGANIC CHEMISTRY. Continuation of Chemistry 207a. Lectures and conferences, two hours a week.

2 credits; either semester (Maxson)

208—THEORETICAL CHEMISTRY. A historical survey of atomic theories and their influence upon the development of chemistry. Two lectures and assigned reading a week.

2 credits; either semester (Stewart)

210a, b, c, d—SEMINAR. Reports and discussions of recent research and current literature. $2\ hours.$

1 credit; both semesters (Staff)

ENGINEERING (See Engineering)

GEOLOGY

101a—PALEONTOLOGY. A systematic study of the important phyla of fossil invertebrates, their classification, identification, and geological distribution.

Prerequisite: Geology 15a-b; Zoology 1a-b. 3 credits; 1st semester (McFarlan)

101b—PALEONTOLOGY. The stratigraphic use of fossils in the determination of the geologic age of strata. Collections are assigned, the fossils identified, and the age of the fauna determined.

Prerequisite: Geology 101a. 3 credits; 2nd semester (McFarlan)

104a, b, c, etc.—ADVANCED FIELD GEOLOGY. The preparation of a geologic map, structure, and stratigraphic sections of assigned areas.

Prerequisite: Geology 9b, 15a-b.

2 credits; (McFarlan)

105a, b, c, etc.—INDEPENDENT WORK IN GEOLOGY. May be elected in any field. Registration only after consultation with instructor in charge.

3 credits

106a—ECONOMIC GEOLOGY. Non-metallic mineral deposits (excepting petroleum, natural gas and asphalt). A study of origin, mode of occurrence, distribution and uses.

Prerequisite: Geology 15a-b. 3 credits (Meacham)

106b—ECONOMIC GEOLOGY. Metallic mineral deposits.

Prerequisite: Geology 15a-b. 3 credits (Meacham)

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109a—MINERALOGY. Crystallography and physical mineralogy, with emphasis on their use in mineral identification.

Prerequisite: Chemistry 1a-b. 2 credits; 2nd semester

(Robinson)

109b—MINERALOGY. Chemical, descriptive and determinative mineralogy. The origin, occurrence, associations and alteration products of minerals.

2 credits; 1st semester (Robinson)

116—OIL GEOLOGY. The origin, accumulation, and production of petroleum. A study of the geological features of the producing regions of the United States. Problems of geological exploration.

Prerequisite: Geology 15a-b. 2 credits; 2nd semester (Robinson)

117a, b, c, etc.—SEMINAR. A consideration of the literature dealing with current research. Required of seniors.

1 credit; both semesters

118a, b, c—FIELD WORK IN REGIONAL GEOLOGY. Two weeks in the field in the Appalachians. A study of regional geological features involving the various aspects of the science. The course is offered as a part of the first summer session coming early in June before the regular opening of the term. Required of major students at the end of their Junior year. Three distinct trips, offered in successive years, offer the opportunity for extended work of this type.

Prerequisites: Geology 15a-b;

2 credits

106a-b.

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(McFarlan and Meacham)

207a—PETROLOGY. Optical mineralogy. The use of optical properties in the determination of minerals in thin sections. A study of the minerals, their associations, and alteration products. $^{\rm Res}$

Prerequisite: Geology 109a-b;

3 credits (Robinson)

Physics 1a-b.

 $207b\mbox{--PETROLOGY}.$ A study of igneous rocks, their classification, origin, metamorphism and decay.

Prerequisite: Geology 107a.

3 credits (Robinson)

 $208\mbox{--}STRUCTURAL$ GEOLOGY. A study of rock structures, rock deformation and diastrophism.

Prerequisite: Geology 15a-b; 109a-b; Physics 1a-b.

210—STRATIGRAPHIC PALEONTOLOGY. A study of the more important index fossils and fossil associations used in stratigraphic work,

Prerequisite: Geology 101a-b.

3 credits (McFarlan)

211—PRINCIPLES OF SEDIMENTATION. A study of the origin and distribution of sediment in the forming of sedimentary rock, particularly the effect of various types of environment. A study of

the sedimentary rock as a means of determining ancient conditions on the earth.

Prerequisite: Geology 15a-b; 109a-b.

3 credits (Meacham)

202a-b—RESEARCH IN GEOLOGY. Consult instructor before registering.

5 credits

MATHEMATICS AND ASTRONOMY

MATHEMATICS

Graduate students will be able to obtain sufficient work to qualify for the doctor's degree. Graduate students must have had at least 12 credits beyond calculus before counting work toward an advanced degree. The White Mathematics Club and Pi Mu Epsilon meet regularly for the study of some book of general interest or for the presentation of special topics.

102-VECTOR ANALYSIS. An elementary course in the algebra and calculus of vectors with numerous applications in geometry and

Prerequisite: Course 7b.

3 credits; 2nd semester (Rees)

[GIVEN 1931-2; OFFERED 1932-3]

103-THEORY OF EQUATIONS. This course is based on Dickson's First Course in the Theory of Equations, which is used as a text. Prerequisite: Course 7a. 3 credits; 2nd semester (Brown) [GIVEN 1931-2]

104-ADVANCED ANALYTICS. An account of some of the most important modern methods as presented in the treatises of C. Smith and Salmon.

Prerequisite: Course 7a. 3 credits; 1st semester (LeStourgeon) [OFFERED 1932-3]

105a—DIFFERENTIAL EQUATIONS. A first course in differential equations based on A. Cohen's text.

Prerequisite: Course 7b.

3 credits: 1st semester (Davis)

[GIVEN 1931-2; OFFERED 1932-3]

105b—DIFFERENTIAL EQUATIONS. An extension of Math. 105a to more advanced topics with special study of certain ordinary and partial differential equations which have proved useful in Physicsand Mechanics.

Prerequisite: Course 105a.

3 credits; 2nd semester (Davis)

[GIVEN 1931-2; OFFERED 1932-3]

106a—ADVANCED CALCULUS. Topics included: Continuity of functions; derivatives and differentials; Taylor's series; power series; partial differentiation; total derivatives; implicit functions; Jacobians;

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by Sali GIVEN applications to geometry—elements of arc, area, and surface; maxima and minima; curvature and torsion.

Prerequisite: Course 7b. 3 credits; 1st semester (Downing)
[GIVEN 1931-2; OFFERED 1932-3]

106b—ADVANCED CALCULUS. Continuation of Math. 106a. Topics included: Definite integrals—existence, properties, differentiation of a definite integral, integration under the integral sign, improper integrals; Gamma and Beta functions; Dirichlet integrals; line, surface, and space integrals; elliptic integrals.

Prerequisite: Course 106a. 3 credits; 2nd semester (Downing) [GIVEN 1931-2; OFFERED 1932-3]

107—PROJECTIVE GEOMETRY. A brief course based on a text like Dowling's.

Prerequisite: Course 7a. 3 credits; 2nd semester (Boyd) [OFFERED 1932-3]

110a—INDEPENDENT WORK IN MATHEMATICS. Limited to upper division and graduate students of high standing.

Prerequisite: Course 7b. 3 credits; both semesters

[Given 1931-2; offered 1932-3]

116—ANALYTIC MECHANICS. Topics included: Composition and resolution of forces; statics of a particle; moments; couples; center of gravity; friction; simple harmonic motion; moments; constrained motion; work and energy; inertia; impulse.

Prerequisite: Course 7b. 3 credits; 1st semester (Downing) [OFFERED 1932-3]

119—MODERN GEOMETRY. A course covering the ground substantially as presented in Allschiller Court's text.

Prerequisite: Course 7a. 3 credits; 2nd semester (Boyd)
[GIVEN 1931-2]

120—MATHEMATICAL STATISTICS. Topics considered: averages, coefficients of dispersion and skewness, graphical representation, Bernoulli's Theorem, curve-fitting, theory of sampling. correlation, and regression lines.

Prerequisite: Course 7a. 3 credits; 2nd semester (South) [OFFERED 1932-3]

 $201a{\rm -\!GEOMETRIC}$ TRANSFORMATIONS. This course covers a large part of Winger's Projective Geometry.

3 credits; 1st semester (Boyd)

[OFFERED 1932-3]

 $202\mathrm{a-ALGEERAIC}$ CURVES. The classical theory as presented by Salmon, Wieleitner or Ganguli.

3 credits; 1st semester (Boyd)

|GIVEN 1931-2]

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ty of eries; ians; 204—CALCULUS OF VARIATIONS. Examples illustrating the various types of problems. The differential equation of a curve which minimizes a definite integral. Other properties of a minimizing are as deduced by Legendre, Weierstrass and Jacobi. Isoperimetric problems.

Prerequisites: Courses 105a, 106a.

3 credits; 1st semester

(LeStourgeon)

[GIVEN 1931-2]

205—DIFFERENTIAL GEOMETRY. An introductory study of the metric properties of twisted curves and surfaces. Altho vector analysis is not required, the student will find vector methods of great assistance in this study.

3 credits; 2nd semester (Rees)

[GIVEN 1931-2]

207a—THEORY OF NUMBERS. This course covers the material in Chapters 1-5 inclusive of Dickson's "Introduction to the Theory of Numbers."

3 credits; 1st semester (Latimer)

[OFFERED 1932-3]

207b—THEORY OF NUMBERS. This course covers the material in Chapters 6-10 inclusive of Dickson's "Introduction to the Theory of Numbers."

3 credits; 2nd semester (Latimer)

[OFFERED 1932-3]

211—HIGHER ALGEBRA. This course covers the material in Chapters 2-11 inclusive and Chapter XX in Bocher's "Introduction to Higher Algebra."

Prerequisite: Course 7a.

3 credits; 1st semester (Latimer)

[GIVEN 1931-2]

217—ALGEBRAIC INVARIANTS. This course covers the material in Dickson's "Algebraic Invariants."

Prerequisite: Course 7b.

3 credits; 2nd semester (Latimer)

[GIVEN 1931-2]

Note: Other courses such as Fourier's Series, Potential Function, Infinite Series, Substitution Groups, Solid Analytics, Theory of Functions of a Real Variable, Theory of Functions of a Complex Variable, Practical Astronomy, will be given from time to time.

ASTRONOMY

251a—CELESTIAL MECHANICS. Topics included: Rectilinear motion; central forces of various types; potential and attraction of bodies; problem of two bodies; Ivory's theorem; Kepler's equation.

3 credits; 2nd semester (Downing)

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Note: Other courses such as Fourier's Series, Potential Function, Infinite Series, Substitution Groups, Solid Analytics, Practical Astronomy, will be given from time to time.

PHYSICS

The Department of Physics is well equipped with instruments of precision and has adequate library facilities necessary to the proper conduct of the following list of advanced and graduate courses:

101—THEORY OF HEAT. A lecture and experimental course covering the fundamental principles of heat. Opportunity is offered to use the gas thermometer, resistance thermometer, and various types of radiation pyrometers. Determination of vapor pressure and densities, coefficients of viscosity, freezing and boiling points, latent and specific heats, heats of combustion, thermal conductivities. Calibration of thermocouples, etc.

Prerequisites: Physics 3b, 6, and

5 credits (Koppius)

Mathematics 7a.

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n of n. 102a—ELECTRICITY AND MAGNETISM. A course developing the fundamental theory of electricity and magnetism, emphasizing the physical concepts of electrical quantities and applying these to practical problems. The laboratory work is designed both to emphasize the principles covered and to give the student experience in the careful use of electrical measuring instruments. Lectures and recitations three hours, laboratory four hours a week.

Prerequisites: Physics 3b, 6, and

5 credits (Warburton)

Mathematics 7a.

 $103\mathrm{-THEORY}$ OF LIGHT. A course covering the general theory of reflection, refraction, diffraction and polarization.

Prerequisites: Physics 3b, 6, and

5 credits (Webb)

Mathematics 7a.

104—THEORETICAL MECHANICS. This course begins with a careful statement of the fundamental laws of mechanics and the conditions under which they hold. Defined quantities are introduced logically. The work is usually based on some standard text but will be supplemented by lectures. The student is expected to solve a representative list of problems.

Prerequisites: Physics 3b, 6, and

5 credits (Pardue)

Mathematics 7a.

 $111\mathrm{-ELECTRICITY}$ AND MAGNETISM. This course comprises the lectures and recitations of course 102a.

Prerequisites: Physics 3b, 6, and

3 credits (Warburton)

Mathematics 7a.

113-RADIO COMMUNICATON. A discussion of the theory of

transmission and reception of wireless waves. The theory of the detector and amplification properties of the vacuum tube. Prerequisites: Physics 3b and 6. 3 credits (Hahn)

116a-PHYSICAL MANIPULATIONS. A course for those who wish to acquire a technique in various physical manipulations, as for example, glass blowing, and the preparation and use of materials used in physical experiments.

Prerequisites: College Physics or

1 credit (Webb)

College Chemistry.

116b-PHYSICAL MANIPULATIONS. A continuation of 116a. 1 credit (Webb)

119-PRINCIPLES OF X-RAYS. A basic course in X-rays for the advanced undergraduate and graduate, dealing with the production and properties of X-rays, the mathematical development of the formulae of absorption, scattering, polarization, etc.; methods of wave length measurement; the Compton effect and related quantum phenomena; a review of articles in the various scientific periodicals.

Prerequisites: Physics 3b, 6, and

3 credits (Hahn)

Mathematics 7a.

120-X-RAY TECHNIQUE. An introductory course in X-ray technology dealing with the design and operation of X-ray equipment, the use of intensifying screens, dark room procedure, etc. Some practice will be given in the radiography of the extremities and teeth with special attention to voltage, current, time and distance factors. Lectures and recitations two hours a week.

Prerequisites: Physics 1a-b.

2 credits (Hahn)

201-PHYSICAL OPTICS. This course covers in mathematical formulation the theories of interference and diffraction, the theory of optical instruments, the propagation of light in crystalline media and a comparison of the various theories of light.

Prerequisites: Physics 103, one addi-

3 credits (Webb)

tional 100 course in Physics,

and Mathematics 105a.

202-MEASUREMENTS IN OPTICS. A course in the measurements of wave lengths; Fresnell mirrors and biprisms; determination of optical constants by Michelson's interferometer; reflection and transmission grating; spectroscopes and concave grating spectrograph. This course is designed to supplement 201.

Prerequisite: Physics 103.

2 credits (Webb)

204-DYNAMICS OF A PARTICLE, INCLUDIG WAVE MOTION. A mathematical presentation of the dynamics of a particle in a conservative medium, and the calculations of the velocity of propagation of various wave forms and their synthesis and analysis by Fourier's theorem. A study of the velocity of propagation as a function of

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213-Lectures the opti isotropic conducti Prerequ tion

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wave length, including a consideration of varying degrees of freedom and boundary conditions.

Prerequisites: Physics 104, one addi-

3 credits (Koppius)

tional 100 course in Physics,

and Mathematics 105a.

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205-KINETIC THEORY OF MATTER. A course of lectures covering the classical kinetic theory of gases, including the theorems of Clausius, Joule, Maxwell and Boltzman. Coefficients of viscosity and slip. Brownian movements and specific heat relations are treated from the kinetic theory standpoint and equations of change of state are developed.

Prerequisites: Physics 101, one addi-

3 credits (Koppius)

tional 100 course in Physics,

and Mathematics 105a.

210a-ELECTRODYNAMICS. The mathematical theory of electricity and magnetism, including an analysis of the energy relations between charges and between currents. Numerous problems are solved by introducing boundary conditions in the general solutions of the differential equations. The expressions for retarded potentials and the Maxwell field equations are developed. Vector notation is used throughout.

Prerequisites: Physics 102a and

3 credits (Warburton)

Mathematics 105.

210b-ELECTRODYNAMICS. A treatment of the subject from the relativity point of view and on the electron theory. The topics treated will be the simultaneous and retarded fields of a point charge, the derivation and solution of the field equations, the dynamical equation of the electron, radiation from an electron and groups of electrons. Prerequisites: Physics 102a and 3 credits (Pardue)

Mathematics 105a.

Note: 210a and 210b are independent of each other.

212—CONDUCTION OF ELECTRICITY THROUGH GASES. course of lectures covering in chronological order the outstanding discoveries connected with the conduction of electricity through gases at low pressures. The subjects of diffusion, ionic mobility, e/m measwements, positive ray analysis, isotopes, photo-electricity, etc., are

Prerequisites: Physics 102a and 104.

3 credits (Koppius)

213-ELECTRO-MAGNETIC THEORY OF LIGHT. A course of Lectures covering the classical electro-magnetic theory as applied to the optical phenomena of reflection, refraction and polarization. Both isotropic and non-isotropic media as well as conducting and nonconducting media are treated.

Prerequisites: Physics 103, one addi-

3 credits (Webb)

tional 100 course in Physics, and Mathematics 105a.

215—QUANTUM THEORY. A brief review of the Bohr and Bohr Sommerfeld theories. The general aspects of wave mechanics, matrix mechanics, uncertainty principle. Application of the above theories to numerous and important problems.

Prerequisites: Physics 217a and

3 credits (Pardue)

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Mathematics 105a.

216a—RECENT ADVANCES IN PHYSCS. Current developments in physics are carefully studied with special interest placed upon their background and their trend. Useful training is afforded in the organization of the literature upon special topics.

Prerequisites: One specialized 200

1 credit (Staff)

course in Physics.

216b—RECENT ADVANCES IN PHYSICS. A continuation of 216a.

1 credit (Staff)

217a—THEORETICAL PHYSICS. Lectures upon advanced classical and relativity dynamics, hydrodynamics of perfect fluids and of viscuous fluids, properties of elastic media. A substantial portion of the treatment of many of the topics will be taken from Page's "Introduction to Theoretical Physics."

Prerequisites: Two 100 courses in Physics,

3 credits (Pardue)

and Mathematics 105a.

217b—THEORETICAL PHYSICS. A continuation of 217a. Statistical mechanics, classical and modern. Origin of spectra including the classical theory of molecular spectra. Transformation of the elements. There is a slight flexibility which may be used to fit the needs of the students.

3 credits (Pardue)

218—THERMODYNAMICS. First and second laws of Thermodynamics, entropy, derivation of thermodynamic equations and their application to physical phenomena.

Prerequisites: Physics 101, 205, and

3 credits (Webb)

Mathematics 105a.

220a—SEMINAR. A weekly meeting of the staff and advanced students of the department for presentation and discussion of recent developments in physics as reported in the current literature and of work in progress in the department. Credit is given only to those who satisfactorily present papers.

1 credit (Staff)

220b—SEMINAR. A continuation of 220a.

1 credit (Staff)

223a—GENERAL PHYSICS. Course covers Mechanics, Heat and Wave Motion. This course limited to graduate students of the College of Education.

Prerequisites: One year of Elementary

7 credits (Koppius)

Physics and Mathematics 2 and 3.

223b—GENERAL PHYSICS. A continuation of 223a. Covers Electricity, Sound and Light.

7 credits (Warburton)

 $224\mbox{--}X\textsc{--}X\mbox{--}RAYS$ AND THEIR APPLICATIONS TO PHYSICAL PROBLEMS. A course for students in physics and chemistry, giving the present theory of X-ray production, and the application of X-rays to microphysical problems.

Frerequisites: Physics 201. 3 credits (Hahn)

225—THESIS. This course is intended for graduate students who are prepared to undertake special problems. Except in the case of a purely mathematical problem the entire time is to be devoted to work in the laboratory

(Staff)

226a—RESEARCH IN PHYSICS.

3 credits (Staff)

226b—RESEARCH IN PHYS!CS.

3 credits (Staff)

227a—RESEARCH IN PHYSICS.

5 credits (Staff)

227b—RESEARCH IN PHYSICS.

5 credits (Staff)

250a—RELATIVITY. A theory of space and time measurements as applied to physical phenomena.

Prerequisites: Physics 103 and either

3 credits (Webb)

Physics 102a or 104.

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3 credits (Webb)

V. AGRICULTURE

AGRICULTURAL EDUCATION (See Education)

AGRONOMY

113—METHODS AND RESULTS IN AGRONOMY EXPERIMENTATION. A study of the essentials of reliable experimentation. Experimental data from various sources are studied, with special emphasis upon interpretation.

Prerequisite: Agronomy 1. 3 credits; 1st semester (Roberts)

105—ADVANCED CROPS. The important crops are studied in more detail than is possible in the standard course in crops. Structure, classification and history of crop plants are given special attention. Soil and climatic adaptation, economics of production, and numerous other fundamental problems of crop production are studied. To as large an extent as possible the best crop literature is reviewed. Some attention is given to the more practical phases of production, chiefly to give students an opportunity to become familiar with advances that have been made in the art of crop production in recent years.

3 credits; 2nd semester (Kinney)

106—FIELD CROP IMPROVEMENT. In this course principles of genetics applicable to plant breeding, technique of breeding and development of plant breeding in the past are studied. Classification and inheritance of the various crops and the problems of improvement connected with each are given attention.

2 credits; 2nd semester (Kinney, Fergus)

115—SOIL MANAGEMENT. Deals with erosion, soil moisture, tillage operations, soil organic matter and nitrogen, including animal and green manures, lime and fertilizers. Lectures 3 hours.

Frerequisite: Agronomy 1. 3 credits; 1st semester (Roberts)

110—ADVANCED SOILS. Biological studies in soils. Reference, classroom and laboratory work dealing with the biological processes in soils in relation to soil productivity. The studies include carbon dioxide production, ammonification, nitrification, nitrogen fixation, sulfofication, solvent action of biological activity products, and partial soil sterilization.

Prerequisites: Agronomy 1 and 3 credit permission of the instructor.

3 credits; 1st semester (Karraker)

111—ADVANCED SOILS. Physico-chemical studies in soils. Reference, classroom and laboratory work on the physico-chemical conditions and changes in soils, emphasizing the theoretical and tech-

nical p colloids work. Prerequ

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nical phases. Soil formation, air and water soil relationships, soil colloids, soil solution, and soil reaction are important parts of the

Prerequisites: Agronomy 1 and permission of the instructor. 3 credits; 2nd semester (Karraker)

112a-b-SPECIAL WORK IN SOILS.

Prerequisites: Agronomy 1 and 3 credits each semester; permission of instructors.

1st and 2nd scmesters (Roberts, Karraker)

114a-b-SPECIFIC CROPS. This course is for the student who wishes to study a crop intensively.

Prerequisite: Permission of instructors.

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2 credits; each semester (Kinney, Fergus)

202-SPECIAL PROBLEMS IN CROP PRODUCTION.

2 credits; either semester (Kinney)

203a-LITERATURE OF PLANT PATHOLOGY.

3 credits; 1st semester (Valleau)

203b-LITERATURE OF PLANT PATHOLOGY.

3 credits; 2nd semester (Valleau)

204a-b-INVESTIGATION IN SOILS.

Prerequisite: Permission of instructors.

2 credits; each semester (Roberts, Karraker)

207a—SEMINAR.

1 credit (The Agronomy Staff)

207b—SEMINAR.

1 credit (The Agronomy Staff)

ANIMAL INDUSTRY

102—FARM BUTCHERING AND CURING MEATS. slaughtering and blocking out of beeves, veals, hogs and lambs. Animals are judged on foot and on the hook. Wholesale and retail cuts are studied. A general study is made of the whole field of meat industry. Meat curing and cures are studied with special emphasis on pork.

Prerequiste: A. I. 21.

4 credits, 1st semester (Wilford)

104-ANIMAL BREEDING. A survey of the methods by which the breeders have built up the different types of domestic animals. Prerequisites: A. I. 17 and 4 credits, 2nd semester

A. I. 119.

(Anderson)

105-BEEF PRODUCTION. A study of the development of the beef cattle industry in this and other countries. The feeding, breeding and management of beef cattle are given the most attention. Laboratory work consists in judging beef cattle and practical problems relating to the industry.

Prerequisite: A. I. 20.

3 credits, 2nd semester (Good)

106-PORK PRODUCTION. A study of breeds and types. General management and feeding of all classes of swine supplemented with laboratory in judging and management.

Prerequisite: A. I. 20.

3 credits; 1st semester (Wilford)

107—SHEEP PRODUCTION. Breeds and market classes; judging, breeding, feeding, management and marketing of sheep; production and marketing of wool.

Prerequisites: A. I. 17; 21.

3 credits; 2nd semester

(Horlacher)

110-ADVANCED STOCK JUDGING. Primarily for judging team candidates. Admission by permission of instructor. Prerequisites: A. I. 17; 21. 3 credits; 1st semester

(Horlacher)

111a-b—SPECIAL PROBLEMS IN ANIMAL HUSBANDRY. 3 credits (Staff)

132a-b—SPECIAL PROBLEMS IN DAIRYING. 3 credits (Staff)

133a-b—SPECIAL PROBLEMS IN POULTRY. 3 credits (Staff)

119—GENETICS. A study of the fundamental laws of heredity. 3 credits; 1st semester (Anderson) Section for men and section for women. Repeated 2nd semester.

120-SYSTEMS OF LIVE STOCK PRODUCTION. A survey of the systems of live stock production in the various countries of the world; designed to give the student a broad view of the live stock industry.

Prerequisites: A. I. 17; 21; 22; 23.

3 credits; 1st semester (Horlacher)

121-ADVANCED GENETICS. Study of the laws of heredity as they have been applied in plant and animal improvement and may be made applicable for human betterment.

Frerequisite: A. I. 119.

3 credits; 1st semester (Anderson)

124-ADVANCED STUDY OF THE DAIRY BREEDS. A classification of prominent strains and families within the leading dairy breeds. Interpretation of herd book data, advanced classification, selective and super registration, present day breed problems, selection by type, proved sires and a constructive dairy breeding program. Lecture two hours a week; laboratory four hours a week. 4 credits; 2nd semester (Ely)

Prerequisite: A. I. 23.

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201 Probler mutton

202 Prerega 125—DAIRY CATTLE FEEDING AND MANAGEMENT. The application of the principles of nutrition to dairy cattle feeding problems, up-to-date methods contributing to maximum efficiency in the production of quality dairy products on the farm.

Prerequisite: A. I. 20. 3 credits; 2nd semester (Ely)

127—ADVANCED POULTRY BREEDING. Fundamental genetic principles involved in poultry breeding. Emphasis laid on the transmission of egg production, broodiness, egg shell color and feather color. A breeding program is mapped out, analyzed, and studied in detail

Prerequisite: Genetics. 3 credits; 2nd semester (Martin)

129—DAIRY BACTERIOLOGY. The application of bacteriological principles to the production and processing of milk and other dairy products, involving methods of micro-organisms into dairy products, effects of their growth and methods for their control. Lecture 2 hours; laboratory 4 hours a week.

Prerequisite: Bacteriology 52 or 102.

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(Morrison)

130—BUTTER AND ICE CREAM. A study of the various processes and problems involved in the manufacture and storage of butter and ice cream. Lecture 1 hour, laboratory 4 hours a week.

Prerequisite: A. I. 23. 3 credits; 1st semester (Barkman)

131—MARKET MILK AND CHEESE. A study of the problems connected with the production and handling of milk and manufacture of certain types of cheese. Lecture 1 hour, laboratory 4 hours a week. Prerequisite: A. I. 23. 3 credits; 2nd semester (Morrison)

A. I. 134—ADVANCED POULTRY PRODUCTION. Advanced problems involved in incubation, brooding, pathology, nutrition and flock management.

Prerequisite: A. I. 22. 3 credits; 2nd semester (Martin)

A. I. 135—ARTIFICIAL INCUBATION AND BROODING. The fundamental principles involved in the operating of mammoth incubators and brooders; hatchery operation and management. Practice in the operation of mammoth incubators and storage brooders.

Prerequisite: A. I. 22. 2 credits; 2nd semester (Assistant)

201—ECONOMIC FACTORS INVOLVED IN MEAT PRODUCTION. Problems involving the economical production of beef, pork, and mutton.

3 credits; each semester (Good, Horlacher, Wilford, Harris)

202—MEATS. Research in any field touching on the industry.

Prerequisite: A. I. 102. 3 credits; both semesters

(Wilford)

203—RESEARCH IN GENETICS. Special problems involving original investigation on the part of the student. Throughout the year.

Prerequisite: Approval of head 3 credits; each semester of department. (Anderson)

204a-b—RESEARCH IN DAIRYING. Special problems involving original investigation on the part of the student. Throughout the

Prerequisite: Approval of head 3 credits; each semester of department. (Ely or Barkman or Morrison)

205—INVESTIGATIONS IN BREEDING LIGHT HORSES. 3 credits (Anderson)

206a-b—RESEARCH IN POULTRY. Special problems involving original investigation on the part of the student. Throughout the year.

Prerequisite: Approval of head 3 credits; each semester of department. (Martin or Insko)

207—INVESTIGATIONS IN WOOL. Special research problems.

Prerequisite: A. I. 107. 3 credits; either semester

(Horlacher)

208—RESEARCH IN ANIMAL BREEDING. Special problems involving original investigation on the part of the student. Throughout the year.

Prerequisite: Approval of head 3 credits; each semester of department. (Anderson)

209a-b—ANIMAL HUSBANDRY SEMINAR. Throughout the year.

1 credit; each semester (Good and Staff)

ANIMAL PATHOLOGY

116—DISEASES OF DOMESTIC ANIMALS. The course deals with the various infectious and parasitic diseases of animals, their distribution, general nature, methods of dissemination, sanitation, prevention and eradication. The work is presented from the stand-point of hygiene and preventive medicine, special emphasis being placed on the transmissible diseases. Lectures, recitations and reference reading.

4 credits; 2nd semester (Dimock)

126—ANATOMY AND PHYSIOLOGY OF DOMESTIC ANIMALS. A study of anatomy and physiology of domestic animals to show the correlation of structure and function of the various organs of the body. The work is outlined so as to give the student an understanding of anatomy and physiology as related to work offered in other courses as livestock judging, butchering, animal nutrition, animal breeding and animal diseases.

4 credits; 1st semester (Hull)

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201a ment of lems inco Prereque 103, 2011 201a-b--INVESTIGATION IN ANIMAL DISEASES. Special problems involving original investigation on the part of the student. Frerequisite: 126 and 116 or 4 credits; each semester equivalent. (Dimock and Staff)

ENTOMOLOGY

102—ADVANCED AGRICULTURAL ENTOMOLOGY. Life history, control and means of identification of the common and important insects of Kentucky; the making and care of school collections, cages and aquariums. Field trips and practical demonstrations of insect control. Especially planned for those intending to take up vocational agricultural teaching and county agent work.

Prerequisite: Entomology 10. 3 credits; 2nd semester (Price)

103—ECONOMIC ENTOMOLOGY. FRUIT AND GARDEN INSECTS. Beneficial and injurious insects of fruit and garden crops with special attention to the life histories, habits and control of injurious species found in Kentucky. A discussion of practical and specific control measures for each insect considered as garden and fruit pests.

Prerequisite: Entomology 10. 3 credits; 1st semester (Price)

ANIMALS PARASITES. Beneficial and injurious insects of common farm crops including those of stored grains and forage. Also internal and external parasites of domestic animals. Detailed discussions of the more important Kentucky species with special reference to life histories and control measures. General theories of agronomic practice in the control of insects; fumigation methods and treatment for animal parasites.

Prerequisite: Entomology 10. 3 credits; 2nd semester (Price)

106a—SYSTEMATIC AND TECHNICAL AGRICULTURAL ENTOMOLOGY. Insect physiology, anatomy, ecology and taxonomy; entomological literature and technique; studies of special groups of insects.

Prerequisites: Entomology 10 3 credits; 1st semester (Price) and any one of the follow-

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106b—SYSTEMATIC AND TECHNICAL AGRICULTURAL

ENTOMOLOGY. A continuation of 106a.

3 credits; 2nd semester (Price)

201a—ENTOMOLOGICAL PROBLEMS. Discussion and assignment of current insect subjects. Investigations of chosen insect problems including original research work.

Prerequisites: Entomology 10, 2 credits; 1st semester (Price) 103, 104, 106a and 106b.

201b—ENTOMOLOGICAL PROBLEMS. A continuation of 201a. 3 credits; 2nd semester (Price)

FARM ECONOMICS

203a—AGRICUTURAL ECONOMICS SEMINAR. Preparation and presentation of papers on current problems in the field of agricultural economics. Round table discussions, centering on the subject matter treated in the various reports, are held at each meeting, 2 credits; 1st semester (Farm Economics Staff)

 $203\mathrm{b-AGRICULTURAL}$ ECONOMICS SEMINAR. A continuation of $203\mathrm{a}.$

2 credits; 2nd semester (Farm Economics Staff)

107a—SPECIAL PROBLEMS IN FARM MANAGEMENT. Students enrolling in this course are assigned some special problem, as for example, the cost of producing some class of farm products such as dairy products, crop or live stock, the problem of profitable farm organization in a specified community; farm taxes, etc. Students are required to review the literature of the problem and report on it regularly to the instructor. In most cases they are also required to examine, classify and tabulate special statistical data previously collected by the College of Agriculture and to relate these data to the problem. Each student presents a final report showing results and conclusions arrived at.

1st semester (Nicholls)

107b—SPECIAL PROBLEMS IN FARM MANAGEMENT. A continuation of 107a.

2nd semester (Nicholls)

108—LAND PROBLEMS. The course deals particularly with problems of farm ownership and tenancy. Phases of the problem considered are the following: The classification of agricultural land; economic characteristic and peculiarities of land; principles involved in the determination of rent; the relation of rent to other distributive shares in production; factors determining the value and appraisal of farm land; problems of farm tenancy; land-tenant contracts and characteristics of such contracts which have been mutually satisfactory to landlords and tenants.

Prerequisite: Farm Economics 4. 2 credits; 1st semester (Nicholls)

109—ADVANCED FARM MANAGEMENT. A course giving advanced consideration to the fundamental principles underlying the choice of a farm, the selection of crop and live stock enterprises, the management of labor and equipment and the organization of these elements into an efficient and profitable farm business. Trips are made to nearby farms that illustrate these principles and study is devoted to the records of other successfully operated farms of the

Prerequisite: Farm Economics 113. 2 credits
[Not given in 1932-33]

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105a research Prerequi 113—FARM MANAGEMENT. The course consists in a study of the principles underlying the choice of proper types of farming; the comparative merits of intensive and extensive farming; the relation of live stock to farm management; the best size of farm; the relation of capital to farm profits; farm rental systems; the management of men and horse labor and machinery for greatest profits; the layout of fields and farm buildings; farm accounts, including the annual inventory; the choice of a region for farming and important considerations in buying a farm; the other vital questions of farm organization and management.

Prerequisite: Farm Economics 4. 3 credits; 1st semester (Nicholls)

120—RURAL COMMUNITY PROBLEMS. This course deals with the fundamental principles underlying the social organization of country life, and the application of those principles in the development of ways and means of community improvement. Among other matters will be considered the following: rural vital statistics; the shifting of the rural population; community hygiene and sanitation; good roads; the rural church; the rural school and organization for community betterment. An essential feature of the course will be a study of the student's own community, with a view of recommending action for the betterment of the general social, intellectual, moral and economic conditions.

3 credits; 1st semester (Oyler)

202a—RESEARCH IN FARM ECONOMICS. Open to graduate students. The student enrolling in this course is assigned an advanced problem in the field of farm economics. Stress is placed on the plan, technique and scientific method used by the student in developing his research problem. The student is required to submit a report embodying his methods, generalizations and conclusions.

(Nicholls)

202b—RESEARCH IN FARM ECONOMICS. A continuation of 202a.

(Nicholls)

HOME ECONOMICS

104—PROBLEMS IN TEXTILES. Study of physical and chemical properties of major and minor fibers. Social and economic aspects of textile and clothing trades. Laboratory work includes microscopy of fibers, physical tests and quantitative determination of fabric content. Term papers based upon individual problems.

Prerequisites: Home Economics 26; 4 credit.
Economics 1a.

4 credits; 2nd semester (Wade)

105a-b—SEMINAR IN NUTRITION. Investigations of recent research on nutrition.

Prerequisite: Senior or graduate standing.

1 credit; throughout year (Erikson)

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FARM ECONOMICS

203a—AGRICUTURAL ECONOMICS SEMINAR. Preparation and presentation of papers on current problems in the field of agricultural economics. Round table discussions, centering on the subject matter treated in the various reports, are held at each meeting.

2 credits; 1st semester (Farm Economics Staff)

203b—AGRICULTURAL ECONOMICS SEMINAR. A continuation of 203a.

2 credits; 2nd semester (Farm Economics Staff)

107a—SPECIAL PROBLEMS IN FARM MANAGEMENT. Students enrolling in this course are assigned some special problem, as for example, the cost of producing some class of farm products such as dairy products, crop or live stock, the problem of profitable farm organization in a specified community; farm taxes, etc. Students are required to review the literature of the problem and report on it regularly to the instructor. In most cases they are also required to examine, classify and tabulate special statistical data previously collected by the College of Agriculture and to relate these data to the problem. Each student presents a final report showing results and conclusions arrived at.

1st semester (Nicholls)

107b—SPECIAL PROBLEMS IN FARM MANAGEMENT. A continuation of 107a.

2nd semester (Nicholls)

108—LAND PROBLEMS. The course deals particularly with problems of farm ownership and tenancy. Phases of the problem considered are the following: The classification of agricultural land; economic characteristic and peculiarities of land; principles involved in the determination of rent; the relation of rent to other distributive shares in production; factors determining the value and appraisal of farm land; problems of farm tenancy; land-tenant contracts and characteristics of such contracts which have been mutually satisfactory to landlords and tenants.

Prerequisite: Farm Economics 4. 2 credits; 1st semester (Nicholls)

109—ADVANCED FARM MANAGEMENT. A course giving advanced consideration to the fundamental principles underlying the choice of a farm, the selection of crop and live stock enterprises, the management of labor and equipment and the organization of these elements into an efficient and profitable farm business. Trips are made to nearby farms that illustrate these principles and study is devoted to the records of other successfully operated farms of the

Prerequisite: Farm Economics 113. 2 credits; 1st semester [Not given in 1932-33] (Nicholls)

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Prerequisite: Farm Economics 4. 3 credits; 1st semester (Nicholls)

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120—RURAL COMMUNITY PROBLEMS. This course deals with the fundamental principles underlying the social organization of country life, and the application of those principles in the development of ways and means of community improvement. Among other matters will be considered the following: rural vital statistics; the shifting of the rural population; community hygiene and sanitation; good roads; the rural church; the rural school and organization for community betterment. An essential feature of the course will be a study of the student's own community, with a view of recommending action for the betterment of the general social, intellectual, moral and economic conditions.

3 credits; 1st semester (Oyler)

202a—RESEARCH IN FARM ECONOMICS. Open to graduate students. The student enrolling in this course is assigned an advanced problem in the field of farm economics. Stress is placed on the plan, technique and scientific method used by the student in developing his research problem. The student is required to submit a report embodying his methods, generalizations and conclusions.

(Nicholls)

202b—RESEARCH IN FARM ECONOMICS. A continuation of 202a,

(Nicholls)

HOME ECONOMICS

104—PROBLEMS IN TEXTILES. Study of physical and chemical properties of major and minor fibers. Social and economic aspects of textile and clothing trades. Laboratory work includes microscopy of fibers, physical tests and quantitative determination of fabric content. Term papers based upon individual problems.

Prerequisites: Home Economics 26; 4 credits; 2nd semester
Economics 1a. (Wade)

105a-b—SEMINAR IN NUTRITION. Investigations of recent research on nutrition.

Prerequisite: Senior or graduate 1 credit; throughout year standing. (Erikson)

106a-b—SEMINAR IN TEXTILES AND CLOTHING. Investigation of special textile and clothing problems.

Prerequisite: Senior or graduate 1 credit; throughout year standing. (Wade)

107a-b—EXPERIMENTAL COOKERY. Study of the application of chemical methods to the problem of cookery. Observation on effect of pH and determinations of losses in vegetable cookery; experimental work on batter and dough mixtures; shortening power of fats; properties of emulsions; comparison of slow and quick-acting baking powders; jellying properties of fruit juices.

Prerequisites: Home Economics 4; 5 credits; each semester 109. (Erikson, Grundmeier)

109—NUTRITION. Investigations in nutrition and in metabolic processes of the body. It includes sugar tolerance tests; protein and mineral balance experiments on human subjects; biological tests for vitamins and proteins of various foods.

Prerequisite: Home Economics 4. 4 credits; 2nd semester (Erikson)

112—PUBLIC SCHOOL NUTRITION. A study of the nutrition class movement with emphasis on causes and effects of malnutrition, methods of judging nutrition and height and weight standards. Development of health program in public schools. The laboratory work includes a health class with public school children.

3 credits; both semesters (Grundmeier)

115—CHILD CARE AND TRAINING. Survey of the field of child care and training from pre-natal life through the pre-school period. It includes consideration of problems of pre-natal life and infancy; standards for normal growth; breast and artificial feeding; habit formation; general care and hygiene.

Prerequisites: Home Economics 3; 3 credits; both semesters
Physiology 3; (Deephouse)
Psychology 7.

116—ADVANCED COSTUME DESIGN. History of Costume. A survey of costume from ancient to modern times, showing political, religious and industrial influence in design, and furnishing opportunity to create new designs applicable to modern needs. Study of Egyptian, Greek, Roman, French 18th and 19th Century Costumes. Prerequisites: Home Economics 29; 3 credits; 2nd semester Art 2b. (Wade)

117—INTERIOR DECORATION. Study of essentials of architecture in their relation to interiors. Correct composition and decoration of interiors. Drawings, elevations embodying color theory, and principles of decorative design are made. Problems and their practical solutions emphasized.

Prerequisites: Home Economics 45, 3 credits; 1st semester 26; Art 2b. (Wade)

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118—TAILORING. A study of the economics of clothing, budgets. Suit and coat are made.

prerequisite: Home Economics 47. 3 credits; 2nd semester (Wade)

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121a-b—SPECIAL PROBLEMS. Special problems in undergraduate research.

2 credits; throughout year (Staff)

201—ADVANCED HOME MANAGEMENT AND FAMILY RELATIONSHIPS. Open to seniors and advanced students. A lecture course affording opportunity for special study in family relationships. The social and economic problems of the home are stressed.

Prerequisites: Home Economics 42; 3 credits; 2nd semester
Sociology 1a; (Deephouse)
Economics 1a.

178—INSTITUTIONAL ORGANIZATION AND ADMINISTRATION. Principles of organization are studied, types of institutional service, modern industrial tendencies, advertisement, personnel, organization and financial control.

Prerequisite: Home Economics 180. 3 credits; 2nd semester (Hoover)

179—INSTITUTIONAL MANAGEMENT. Application of scientific principles of institutional management consisting of practical work in the institution six hours a day, six days a week, daily half-hour conferences and hour lecture a week. Remuneration: \$35 a semester plus noon meals and laundering of laboratory uniforms.

Prerequisite: Home Economics 178. 6 credits; 2nd semester (Hoover)

180—INSTITUTIONAL EQUIPMENT. Selection, arrangement, cost and care of institutional equipment is made. Problems of lighting, heating, ventilation, refrigeration are considered.

Prerequisite: Home Economics 79. 3 credits; 1st semester (Hoover)

HOME ECONOMICS EDUCATION (See Education)

HORTICULTURE

103—POMOLOGY. Apple Production. A course dealing with the theory and practice of commercial apple growing. Adaptation, soil relations, fruitfulness, and orchard management problems are studied in detail.

Prerequisite: Horticulture 1. 3 credits; 2nd semester (Waltman)

 $104\mathrm{--POMOLOGY}.$ Stone Fruits. A detailed study of commercial peach, plum, and cherry growing.

Prerequisite: Horticulture 1. 3 credits; 2nd semester (Waltman)

105—POMOLOGY. Small Fruits. A detailed study of the care and management of commercial plantings of strawberries, raspberries, and other bush fruits. Lecture one hour, laboratory two hours a week, first half; lecture two hours a week last half.

Prerequisite: Horticulture 1.

2 credits; 2nd semester

(Waltman)

106—GREENHOUSE CONSTRUCTION AND MANAGEMENT. A study of the details of greenhouse construction and management. Lecture 1 hour, laboratory 2 hours.

[NOT GIVEN 1932-1933]

2 credits; 1st semester (Emmert)

108—VEGETABLE FORCING. A study of the culture of vegetable crops under glass. Lecture 2 hours, laboratory 2 hours.

3 credits; 1st semester (Emmert)

110—VEGETABLE GARDENING. A study of the fundamental principles of vegetable growing, and the farmer's home garden.

3 credits; 2nd semester (Emmert)

111—MARKET GARDENING. A detailed study of commercial vegetable growing, with special emphasis on crops suited to Kentucky conditions.

Prerequisites: Horticulture 8, 110.

3 credits; 2nd semester (Emmert)

113—LANDSCAPE GARDENING. A study of lawns, trees and shrubs and their arrangement for home and school yard planting. Lecture 2 hours; laboratory 2 hours.

3 credits; 2nd semester (Elliott)

115a—SPECIAL PROBLEMS. This course is designed to permit advanced students to make an intensive study of some phase of horticulture in which they are particularly interested. May be taken only with approval of the instructor.

3 credits; 1st semester (Olney and Staff)

115b—SPECIAL PROBLEMS. A continuation of 115a.

3 credits; 2nd semester (Olney and Staff)

117—ELEMENTS OF FLORICULTURE. A study of the fundamental principles of flower growing under glass and in the garden. Lecture 2 hours; laboratory 2 hours.

3 credits; 2nd semester (Elliott)

118—FLOWER GARDEN AND HOME GROUNDS. A detailed study of the culture and arrangement of garden flowers for the home grounds. Lecture 2 hours; laboratory 2 hours.

3 credits; 2nd semester (Elliott)

200a-SEMINAR.

1 credit; 1st semester (Olney and Staff)

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200b-SEMINAR.

1 credit; 2nd semester (Olney and Staff)

MARKETS AND RURAL FINANCE

108—MARKETING. Principles and methods of marketing farm products; methods of marketing at country points and in central markets; classes and functions of middlemen; marketing specific commodities; market price; marketing costs; and cooperative marketing. Lectures 3 hours.

Prerequisite: Economics 1a. 3 credits; 1st semester (Price)

109—COOPERATIVE MARKETING. Principles, methods and problems involved in the cooperative marketing of farm products; legal, organization, and management problems which cooperatives encounter for different classes of farm products. Lectures 3 hours. Prerequisite: M. & R. F. 108. 3 credits; 2nd semester (Price)

110—ADVANCED MARKETING. Marketing live stock, dairy products, eggs, and poultry; analysis of local and terminal market organization; factors affecting efficiency of business set-up and financial organization of marketing agencies. Lectures 3 hours.

Frerequisite: M. & R. F. 108. 3 credits; 1st semester (Price)

111—AGRICULTURAL PRICES. A study of the factors influencing prices of farm products, price movements and trends, and price relationships. Methods of price comparison, long time price movements and cyclical tendencies are reviewed. Lectures 3 hours.

Prerequisite: Farm Economics 4. 3 credits; 1st semester (Card)

112—FARM FINANCE. Principles of financing the production and marketing of farm products; credit needs of agriculture, including short time, intermediate and farm mortgage credit requirements; organization and operation of the federal farm loan system, and other agencies which furnish credit for agriculture. Lectures 3 hours.

Prerequisite: Farm Economics 4. 3 credits; 2nd semester (Bradley)

113—AGRICULTURAL STATISTICS. Sources, methods of presentation and analysis of agricultural statistics with special reference to agricultural census and crop and live stock estimates; collection, tabulation and graphic presentation of data; measures of dispersion, index numbers, trends and correlation. Lectures 2 hours; laboratory 2 hours.

Prerequisite: Economics 1a. 3 credits; 1st semester (Card)

131—ADVANCED AGRICULTURAL PRICES. A review of price theory and statistical method with special reference to research in agricultural prices; analysis of various price studies with reference

to the theory upon which they are based, research methods used and reliability of conclusions drawn. Lectures 2 hours.

Prerequisites: M. & R. F. 111-113 2 credits; 1st semester or Commerce 107.

202a-b—SPECIAL PROBLEMS IN MARKETING AND RURAL FINANCE. Open to graduate students who have the necessary training and ability to do research on individual problems. The course consists of individual work on some selected problem related to agricultural marketing or agricultural finance. Prerequisite, approval of head of department.

3 credits; each semester (Price and Staff)

203a-b—SEMINAR. Analysis of current problems in the field of marketing and rural finance.

1 credit; each semester (Price and Staff)

204-RESEARCH IN MARKETING. Types of research in marketing. Laying out the research project. Analysis of data.

Prerequisite: M. & R. F. 108. 2 credits; second semester (Price)

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GENERAL STATEMENT OF REGULATIONS GOVERNING GRAD-UATE WORK IN THE COLLEGE OF EDUCATION

- 1. Of the graduate work offered by any candidate for the master's degree in education 15 semester hours (including the thesis course) must be in the courses at the 200 level or above.
- 2. The total number of credits (graduate and undergraduate combined) in education offered by any candidate for the master's degree must be at least 36 semester hours including the thesis course.
- 3. Two plans are provided for the work which leads to the master's degree:
 - A. The first plan consists of 30 semester hours of graduate work including the writing of a thesis.
 - B. The second plan requires the completion of 45 semester hours of graduate work with an average standing of B or better and no requirement of a thesis. Both plans involve the successful passing of an oral examination over the field of education and also the minor field, if any.*
- 4. The first semester of the thesis course shall be required of all candidates for the master's degree in education.
- 5. Educational Literature shall be a required course of all persons graduating on the 45 semester hour basis.
- 6. The residence requirement for those not writing a thesis shall be three semesters.

EDUCATIONAL ADMINISTRATION

101—SCHOOL ORGANIZATION. A course designed to familiarize the prospective teacher with those activities of school organization and administration in which she may be expected to participate. Topics emphasized are administrative control, selection of teachers, tenure, loads, salaries, retirement, supervision, classification and promotion, attendance, community relationships, and professional ethics. Prerequisite: Education 16. 3 credits; both semesters

(Chamberlain)

203—THE ELEMENTARY SCHOOL. A course designed primarily for supervisors and principals. Topics emphasized include scheduling, office duties, supervisory duties, pupil activities, the curriculum, philosophy of the elementary school, state standardization, research in

 $^{^{*}\}mathrm{No}$ student may elect this plan except with the approval of his major professor.

elementary school subjects, and modern procedures in administering the elementary school.

Prerequisite: 12 credits Education.

3 credits; 2nd semester

(Hill)

202a—CITY SCHOOL ADMINISTRATION.

Prerequisite: Graduate standing.

3 credits; 1st semester

(Holloway)

202b—COUNTY AND LOCAL DISTRICT SCHOOL ADMINISTRA-

Prerequisite: Graduate standing.

3 credits; 2nd semester

(Holloway)

204a-THE ADMINISTRATION OF HIGHER EDUCATION. This course deals with the following topics: problems relating to the organization and administration of universities, colleges, and teacher training institutions; financial problems of higher institutions; professional duties of registrars, deans, and business managers.

Prerequisite: Graduate standing. 2 credits; summer session

(McVev)

204b—THE ADMINISTRATION OF HIGHER EDUCATION, A continuation of Education 204a.

Prerequisite: Graduate standing.

2 credits; summer scssion

(McVey)

206-PROBLEMS OF COLLEGE TEACHING. This course covers among others the following topics: methods commonly used in college teaching; bases for measuring instruction; marking systems; qualifications for college teaching; and efforts being made to improve college instruction.

Prerequisite: Graduate standing.

2 credits; 2nd semester (Taylor)

207—SCHOOL BUILDINGS AND EQUIPMENT. The major topics considered are the measurement and evaluation of existing school building facilities, planning new school buildings, financing the building program, and building operation and maintenance.

Prerequisites: Education 101

3 credits; summer session

or equivalent.

(Chamberlain)

210—SPECIAL PROBLEMS IN SCHOOL ADMINISTRATION. 3 credits Prerequisite: Graduate standing. [NOT GIVEN 1930-31]

213-STATE AND COUNTY SCHOOL ADMINISTRATION. The state as a unit of school administration, the school district, the nation as a unit of school administration, the scope of the school system, financing the schools, and supervision by the state are the topics emphasized.

Prerequisite: Ed. 101.

3 credits; 1st semester (Holloway) .

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 $\tt 225a-SUPERVISION$ OF INSTRUCTION IN THE ELEMENTARY SCHOOL.

Prerequisite: Graduate standing.

3 credits; 1st semester (Holloway)

225b—SUPERVISION OF INSTRUCTION IN THE SECONDARY SCHOOL.

Prerequisite: Graduate standing.

3 credits; 2nd semester (Holloway)

231—FINANCING PUBLIC EDUCATION. Topics covered are budgetary procedure, school costs, school indebtedness, state finance, fiscal reports, and accounting procedures. These topics are treated primarily from the viewpoint of the superintendent of schools.

Prerequisite: Ed. 101. 3 credits; 1st semester (Hill)

232—HIGH SCHOOL ADMINISTRATION. A course designed primarily for high school principals and prospective administrators. Topics emphasized are secondary school organization, the principal, the staff, the pupil, program of studies, schedules, community relationships, records and reports, articulation, library, plant, finance, and the aims of secondary education.

Prerequisite: Ed. 226 or 250. 3 credits; 1st semester (Ligon)

290a—TECHNIQUE AND PROFESSIONAL WORK OF THE REGISTRAR. A comprehensive study of admissions including the literature, history and present day tendencies; the rules of the University; recommendations of the American Association of Collegiate Registrars; accrediting agencies; special problems in the administration of the office. Limited to six students. Lecture 1 hour, laboratory 2 hours a week.

Prerequisite or concurrent: Education 90a.

2 credits; 1st semester (Gillis)

290b—TECHNIQUE AND PROFESSIONAL WORK OF THE REGISTRAR. A comprehensive study of permanent records and transcripts, including the history. literature and present day tendencies; rules of the University; recommendations of the American Association of Collegiate Registrars. Special problems in the administration of the office. Limited to six students. Lecture 1 hour, laboratory 2 hours a week.

Prerequisite or concurrent: Education 90b.

2 credits; 2nd semester (Gillis)

291a, b, and c—PROBLEMS IN THE REGISTRAR'S FIELD OF ADMINISTRATION. Independent work. The purpose of the course is to give experience and training in the analysis and interpretation of data; organization of source material; so as to make the office an effective laboratory for the study of problems in administration and

education. A committee will conduct the final oral examination t_{θ} determine the administrative value of the study.

Prerequisite: Ed. 190a and b 2 cres or equivalent.

2 credits; either semester (Gillis)

301a-b—RESEARCH PROBLEMS IN EDUCATIONAL ADMINISTRATION.

Prerequisites: Ed. 202 and 213.

3 credits; both semesters (Holloway)

302a-b—SPECIAL PROBLEMS IN EDUCATIONAL FINANCE.

Prerequisite: Ed. 231. 3 credits; both semesters (Hill)

304a-b—SPECIAL PROBLEMS IN SCHOOL SUPERVISION.

Prerequisite: Ed. 125. 3 credits; both semesters (Holloway)

307a-b---SPECIAL PROBLEMS IN HIGH SCHOOL ADMINISTRATION.

Prerequisite: Ed. 232.

3 credits; both semesters (Ligon)

308a-b-SPECIAL PROBLEMS IN ELEMENTARY SCHOOL ADMINISTRATION.

Prerequisite: Ed. 202.

3 credits; both semesters (Chamberlain)

309a-b—SPECIAL PROBLEMS IN RURAL SCHOOL ADMINISTRATION.

Prerequisite: Ed. 213.

3 credits; both semesters (Holloway)

321a-b—SPECIAL PROBLEMS IN HIGHER EDUCATION.

Frerequisite: Either Ed. 204 3 credits; both semesters
or 205. (Taylor)

AGRICULTURAL EDUCATION

179—DETERMINING CONTENT IN VOCATIONAL AGRICULTURE. Interpreting data as a basis for course building. Working out the content of a four-year course in vocational agriculture.

3 credits: 2nd semester (Hammonds)

 $181\mathrm{--TEACHING}$ VOCATIONAL AGRICULTURE. Designed to prepare men for the teaching of agriculture. About one-half of the course is practice.

7 credits; both semesters (Hammonds, Woods and Armstrong)

185—APPRENTICE TEACHING. The student assists in regular department of vocational agriculture, under supervision.

Prerequisite: Ag. Ed. 181. 2 credits; both semesters (Hammonds and Woods)

188-FARM-PRACTICE SUPERVISION. Practice and directed

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study in supervising farm-practice of pupils in vocational agriculture.

1 credit; both semesters (Hammonds,

Woods and Armstrong)

280—METHOD IN TEACHING VOCATIONAL AGRICULTURE.
The principles of method are applied to the teaching of agriculture.
For men with experience in teaching vocational agriculture.
Prerequisite: Graduate standing. 3 credits; summer session
(Hammonds)

287—ADVANCED PROBLEMS IN AGRICULTURAL EDUCATION. The specific problems considered vary according to the needs of the group.

Prerequisite: Graduate standing. 3 credits; both semesters (Hammonds and Woods)

289—RESEARCH IN AGRICULTURAL EDUCATION. The student works on some problem of importance to agricultural education.

Prerequisite: Graduate standing. 3 credits; both semesters

(Hammonds and Woods)

COMMERCIAL EDUCATION

158—METHOD OF TEACHING COMMERCIAL SUBJECTS. A study of classroom methods in accounting, shorthand, typewriting, business English, business law, and other commercial subjects usually offered in the high school.

Prerequisites: A knowledge of 3 credits; 2nd semester and the subjects. first summer term (Lawrence)

159—THE COMMERCIAL CURRICULUM. Commercial subjects offered in the high school are examined to determine their content and the place each should occupy in the curriculum. Some time is given to the course of study.

Prerequisites: Senior standing 3 credits; 2nd semester and 2nd or experience in teaching or summer term (Lawrence) supervising commercial subjects.

EDUCATIONAL PSYCHOLOGY

118—EDUCATIONAL TESTS AND MEASUREMENTS FOR ELEMENTARY TEACHERS. The problem of measurement in the elementary school; formal and informal tests, marking systems, etc. Prerequisites: One semester 2 credits; 1st semester (Ross) of psychology.

119—FOUNDATIONS OF ELEMENTARY EDUCATION. The Dsychology of the child in the primary and intermediate grades.

Prerequisites: One semester 3 credits; 2nd semester (Ross) of psychology.

122a—EDUCATIONAL TESTS AND MEASUREMENTS FOR HIGH SCHOOL TEACHERS. The problems of measurement in the junior and senior high school, with special emphasis on standardized tests.

Prerequisites: Education 16. 2 credits; 1st semester (Ross)

122b—EDUCATIONAL TESTS AND MEASUREMENTS FOR HIGH SCHOOL TEACHERS. The construction and use of new-type tests, use and limitations of traditional examinations, marking systems, etc.

Prerequisites: Education 16. 2 credits; 2nd semester (Ross)

147—FOUNDATIONS OF SECONDARY EDUCATION. The psychology of the student in junior and senior high school.

Prerequisites: One semester 3 credits; 2nd semester (Ross)

of psychology.

152—PROBLEMS IN EDUCATIONAL PSYCHOLOGY. A critical survey of the conflicting schools of psychology, theories of learning, etc.

Prerequisites: Education 16. 3 credits; 2nd semester (Ross)

216—SEMINAR IN EDUCATIONAL TESTS AND MEASURE-MENTS. A critical study of certain problems in measurement. Individual work.

Prerequisites: Education 122a-b. 3 credits; 1st semester (Ross)

223—EDUCATIONAL STATISTICS. A non-mathematical study of the applications of statistical and graphical methods to educational data

3 credits; 1st semester (Ross)

ELEMENTARY EDUCATION

133—DIRECTED TEACHING IN THE ELEMENTARY SCHOOL. Supervised teaching in kindergarten or Grades I to VI. One hour per day of actual teaching and one hour per day reserved for conference and class work.

Prerequisites: Senior standing. 5 credits; both semesters (Duncan and Training Teacher)

172—TEACHING READING IN THE ELEMENTARY SCHOOL A practical application of principles derived from psychology and research. Discussion of aims, primary reading, activities leading to reading, reading in the intermediate grades, oral and silent reading, phonics, diagnostic and remedial work, means of testing and suitable material for each grade.

Prerequisite: Junior standing. 3 credits; 1st semester (Duncan)

173—TEACHING LITERATURE TO CHILDREN. A study of the literature for children from Kindergarten to Grade VI. Readings and

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book reports from various types; Mother Goose, folklore, modern fantastic tales, poetry, realistic stories, biography, myths and legends. Children's interests at different ages and stages of development; story telling and dramatization.

Prerequisite: Junior standing. 3 credits; 2nd semester (Duncan)

174—PRE-SCHOOL THEORY AND MANAGEMENT. A study of the nature, development, care and training educationally of the preschool child. Emphasis will be placed on the formation of proper emotional and social habits and standards for right environment set up. Students will schedule regular periods for observation and assistance in the Kindergarten (by appointment).

Prerequisite: Junior standing. 4 credits; 1st semester (Martin)

176—PRE-SCHOOL ORGANIZATION AND TEACHING. A study of the pre-school movement in Europe and America. A study of the organization, equipment, curriculum and methods of pre-school teaching. Students taking this course will schedule regular periods (by appointment) for observation and assistance in the Kindergarten.

Prerequisite: Junior standing. 4 credits; 2nd semester (Martin)

HISTORY OF EDUCATION

117a—HISTORY OF EDUCATION. This course is a survey of the history of secondary education from the Greek period to the present time.

3 credits; 1st semester (Noe)

117b—HISTORY OF EDUCATION. A survey of the history of elementary education beginning with Athenian education and closing with present elementary education in America.

3 credits; 2nd semester (Noe)

121—HISTORY OF EDUCATION IN THE UNITED STATES. A course in the history of the development of the public school system in the United States. It is designed to give a background for the appreciation of the aims and purposes of modern education.

[NOT OFFERED 1931-32]

3 credits

219—GREAT EDUCATORS AND THEIR WORK. A study of the lives and writings of the world's educators to enable the student to appreciate more fully the ideals, attitudes and contributions to society of the men and women in education who have served best.

Prerequisite: Graduate standing. 3 credits; 1st semester (Noe)

220—COMPARATIVE EDUCATION. A course giving comparisons of systems of education.

Prerequisite: Graduate standing. 3 credits; 2nd semester (Noe)

HOME ECONOMICS EDUCATION

160—TECHNIQUE OF TEACHING HOME ECONOMICS. A study of methods of teaching as applied to home economics.

Prerequisites: Home Economics 3 credits; both semesters

26, 6a and b, 29, 3, 51, Education 16.

3 credits; both semesters (Parker or Spickard)

162—DIRECTED TEACHING IN HOME ECONOMICS. Practical application of methods in teaching various phases of home economics.

Prerequisite: Education 160. 6 credits; both semesters

(Parker or Spickard)

Prerequisites: Education 160 and 162, experience in teaching.

3 credits; summer session (Parker or Spickard)

164-METHODS OF TEACHING CHILD CARE. A critical evaluation of subject matter in child care and methods of presenting it to high school pupils.

Prerequisites: Home Economics 115 3 credits; summer session or equivalent. (Parker or Spickard)

165—PROBLEMS IN VOCATIONAL EDUCATION. This course deals with the problems involved in teaching vocational homemaking in day, part-time and evening schools.

3 credits; 2nd semester (Parker or Spickard)

266—SEMINAR IN HOME ECONOMICS EDUCATION. Provision is made for students to make individual investigations and report on special problems in home economics education.

Prerequisite: Graduate standing. 3 credits; 2nd semester (Parker or Spickard)

268—HOME ECONOMICS CURRICULUM CONSTRUCTION. A study of the underlying principles of curriculum building for junior and senior high school home economics.

Prerequisites: Education 160, 162. 3 credits; 1st semester (Parker or Spickard)

178—METHOD OF TEACHING HOME MANAGEMENT AND FAMILY RELATIONS IN JUNIOR AND SENIOR HIGH SCHOOL. This course deals with the selecting of subject matter and methods suitable for junior and senior high school pupils.

Prerequisites: Home Economics 42, 2 credits: summer session experience in teaching. (Parker or Spickard)

261-HOME ECONOMICS SUPERVISION. A course planned

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primarily to help prepare teacher trainers and supervisors of home economics education.

Prerequisites: Education 160, 162, experience in teaching and approval of instructor.

3 credits; 1st semester (Parker or Spickard)

PHILOSOPHY OF EDUCATION

114-EDUCATIONAL SOCIOLOGY. A study in the application of sociological findings to the field of education.

Prerequisite: Nine hours in 3 credits; 1st and 2nd semesters education.

200-ADVANCED COURSE IN PHILOSOPHY OF EDUCATION. This is an advanced course dealing with the philosophy underlying the larger educational problems of today.

Prerequisites: Graduate standing 3 credits; 2nd semester and at least 12 hours

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205-REVIEW OF CURRENT EDUCATIONAL LITERATURE. An extensive study of current educational literature as found in educational periodicals.

Prerequisites: Graduate standing and 9 hours

3 credits; 1st semester

education.

(Adams)

222a-THESIS COURSE. This course is intended to acquaint the student with the various techniques of research and to aid him in methods of attack on his own particular research problems.

Prerequisites: Graduate standing 3 credits; 1st semester

and 12 hours

(Taylor)

education.

222b—THESIS COURSE. Continuation of 222a.

Prerequisite: Graduate standing 3 credits; 2nd semester and 12 hours education.

(Taylor)

227a—PRINCIPLES OF CURRICULUM CONSTRUCTION.* survey of modern curriculum making as carried on in progressive city school systems, laboratory schools and state school systems. Also an intensive study of the principles underlying curriculum revision. Prerequisites: Graduate standing and 3 credits; 1st semester

teaching experience. (Adams) 227b—TECHNIQUES IN CURRICULUM CONSTRUCTION. This course has to do with the techniques being used to determine content of courses of study.

Prerequisites: Graduate standing, 3 credits; 2nd semester teaching experience,

(Adams)

9 hours education.

^{*}Not offered either semester 1931-32.

230-PROBLEMS OF EDUCATIONAL SOCIOLOGY. An advanced course in the application of sociology to the educational field. Prerequisites: Graduate standing 3 credits; 2nd semester and 9 hours education, (Adams) including Education 114.

234-PROBLEMS OF CURRICULUM MAKING. This course deals with problems of curriculum making on the various educational levels. The problems have to do with content of material, grade placement of materials and objectives to be reached through the materials. Prerequisites: Graduate standing 3 credits; 1st semester and teaching experience.

SECONDARY EDUCATION

105-THE TECHNIQUE OF TEACHING. Deals with laboratory methods of instruction. Units: fundamental processes, control, operation, administration.

Prerequisites: Ed. 101.

3 credits; both semesters (Ligon)

149-EXTRA CURRICULAR ACTIVITIES. Underlying principles, faculty activities, home room activities, student council, clubs, athletics, publications, dramatics, honor societies, commencements. Prerequisite: Junior standing. 3 credits

153—DIRECTED TEACHING IN ENGLISH. For seniors. Topics: course of study, minimum essentials, materials, methods, testing. Part I, languages and composition; Part II, literature. Observation and practice five hours, conference two hours.

Prerequisites: Ed. 101, 122

5 credits; both semesters

18 hours of English. (Anderson)

154-DIRECTED TEACHING IN LANGUAGES. For seniors. Topics: aims and objectives, courses of study, methods, tests, equipment, analysis of textbooks. Observation and practice five hours, conference two hours.

Prerequisites: Ed. 101, 122

5 credits; both semesters

and 18 hours in subject

to be taught.

(West)

155-DIRECTED TEACHING IN THE SCIENCES. For seniors. Topics: aims and objectives, courses of study, methods, tests, equipment. General science, biology, physics and chemistry. Observation and practice five hours, conference two hours.

Prerequisites: Ed. 101, 122

5 credits; both semesters

and 18 hours in subject

(Kemper)

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156-DIRECTED TEACHING IN MATHEMATICS. For seniors.

Topics practiv Prerea and to

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177b-Education Prerequisi

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prerequisites: Ed. 101, 122 and 18 hours in subject to be taught.

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5 credits; both semesters (Mitchell)

157—DIRECTED TEACHING IN THE SOCIAL STUDIES. For seniors. Topics: objectives, preparation of the teachers, courses of study, methods, supplementary materials, visual instruction, testing and professional helps. Observation and practice five hours, conference two hours.

Prerequisites: Ed. 101, 122 and 18 hours in the subject to be taught.

5 credits; both semesters (Peck)

169a—DIRECTED TEACHING IN PHYSICAL EDUCATION. This course has been planned for students who desire to become directors of physical education and coaches of athletics in the public schools. They must have met the requirements for practice teaching in physical education in the College of Arts and Sciences.

Prerequisites: Ed. 101, 122.

2½ credits; first semester (Potter)

169b—DIRECTED TEACHING IN PHYSICAL EDUCATION. A continuation of Education 169a.

Prerequisites: Ed. 101, 122.

2½ credits; 2nd semester (Potter)

177a—DIRECTED TEACHING IN MUSIC. This course has been planned for teachers who contemplate becoming supervisors of music in the public schools. They must have met the requirement for practice teaching in music as specified by the department of music in the College of Arts and Sciences.

Prerequisites: Ed. 101, 122.

3 credits; first semester (Parker)

177b—DIRECTED TEACHING IN MUSIC. A continuation of Education 177a.

Prerequisites: Ed. 101, 122.

3 credits; 2nd semester (Potter)

226—THE JUNIOR HIGH SCHOOL. Units: The junior high school idea; peculiar functions of; program of studies; methods of teaching; the staff; administration.

Prerequisite: Ed. 101.

3 credits; 1st semester (Ligon)

250—THE SENIOR HIGH SCHOOL. History of early secondary schools, relation to elementary and higher education, foreign secondary

schools, growth to 1890, report of committee of ten, reorganization 1911, staff, curriculum, allied activities.

Prerequisite: Ed. 109.

3 credits; 2nd semester

(Ligon)

307—SPECIAL PROBLEMS IN SECONDARY EDUCATION. This course is designed for students who want to work on special problems.

Frerequisite: Master's degree 3 credits; both semesters or equivalent. (Ligon)

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VII. ENGINEERING

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CIVIL ENGINEERING

Prerequisites for graduate work: Students desiring to take any of the following courses should have a thorough working knowledge of chemistry, physics and mathematics. These courses are offered to graduates and to such practicing engineers as may be qualified to pursue them. For major work, a candidate must hold a baccalaureate degree in civil engineering.

201a—CONSTRUCTION. Advanced work in plain and reinforced concrete, theory, design and experimental work. Lectures, reading and design twenty hours a week.

10 credits; 1st semester (Terrell)

201b—CONSTRUCTION. Continuation of 201a. Lectures, reading and designing twenty hours a week.

10 credits; 2nd semester (Terrell)

231a—HIGHWAY ENGINEERING. Advanced course designed for graduate civil engineers who wish to enter the field of highway engineering. Road laws, organization of highway departments, traffic, cost contracts, and specifications, laboratory investigations on all kinds of surfacing materials. Structures, their design and maintenance. Twenty-four hours a week.

12 credits; 1st semester (Terrell)

231b—HIGHWAY ENGINEERING. Continuation of 231a. Twenty-four hours a week.

12 credits; 2nd semester (Terrell)

241a—RAILROAD ENGINEERING. Advanced course in location, construction, maintenance, economical selection of lines, grade reductions, cost of operation, valuation, structures and their maintenance. Fifteen hours a week.

7 credits; 1st semester (Newman)

241b—RAILROAD ENGINEERING. Continuation of 241a. Fifteen hours a week.

7 credits; 2nd semester (Newman)

251a—SANITARY ENGINEERING. Advanced course in sewer design, construction and maintenance. Design, maintenance, and operation of sewage disposal plants. Water supply and water works design, construction and maintenance. (Courses in water analysis, sewerage analysis and bacteriology should be taken in connection with this course.) Twenty hours a week.

10 credits; 1st semester (Terrell)

251b—SANITARY ENGINEERING. Continuation of 251a, Twenty hours a week.

10 credits; 2nd semester (Terrell)

271a—STRUCTURAL ENGINEERING. Advanced course in theory of structures, mill buildings, railroad and highway bridges. The use of influence diagrams and detail drawings. Eighteen hours a week.

9 credits; 1st semester (Carrel)

271b—STRUCTURAL ENGINEERING. Continuation of 271a. Eighteen hours a week.

9 credits; 2nd semester (Carrel)

ELECTRICAL ENGINEERING

201a—ADVANCED ALTERNATING CURRENTS. An intensive study of the fundamental theory of alternating current phenomena and machines. Designs of machines and layouts for central stations and distribution systems are made. Lectures and recitations five hours, laboratory ten hours, and drawing ten hours a week.

Prerequisite: B. S. in Electrical Engineering or its equivalent.

12 credits; 1st semester (Freeman)

201b—ADVANCED ALTERNATING CURRENTS. A continuation of course 201a. Lectures and recitations five hours; laboratory tenhours, and drawing tenhours a week.

Prerequisite: E. E. 201a.

12 credits; 2nd semester (Freeman)

202—TELEPHONE ENGINEERING. A study of the theory and operation of modern telephone exchanges. Layouts and designs are made to meet different assumed conditions. Lectures and recitations five hours; laboratory ten hours, and drawing ten hours a week.

Prerequisite: B. S. in Electrical
Engineering or its equivalent.

12 credits; 1st semester (Freeman)

203—ILLUMINATION. A study of the principles underlying both exterior and interior illumination. The characteristics of the various commercial illuminants are compared and layouts for lighting systems are made. Lectures and recitations five hours; laboratory ten hours and drawing ten hours a week.

Prerequisite: B. S. in Electrical
Engineering or its equivalent.

12 credits; 2nd semester
(Freeman)

MECHANICAL ENGINEERING

201a—AUTOMOTIVE ENGINEERING. An advanced course in the essentials of motor vehicle design, construction and operation.

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Recitation five hours a week; design ten hours a week, and laboratory fifteen hours a week.

Prerequisite: B. S. in Mech. Eng. 12 credits; 1st semester or its equivalent. (C. H. Anderson)

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201b—AUTOMOTIVE ENGINEERING. Continuation of M. E. 201a. Recitation five hours a week; design ten hours a week; laboratory fifteen hours a week.

Prerequisite: M. E. 201a. 12 credits; 2nd semester (C. H. Anderson)

202a—POWER PLANTS. Advanced work in the design, selection and operation of power plant equipment. Usually involves a research problem as the major topic for study.

Pierequisite: B. S. Mech. Eng. 12 credits; 1st semester or its equivalent. (O'Bannon)

202b—POWER PLANTS. Continuation of M. E. 202a.

Prerequisite: M. E. 202a. 12 credits; 2nd semester
(O'Bannon)

203a—HEATING AND VENTILATION. Advanced work in the design, selection and operation of heating and ventilating equipment, usually with special emphasis on a particular research problem.

Prerequisite: B. S. Mech. Eng. 12 credits; 1st semester or its equivalent. (O'Bannon)

203b—HEATING AND VENTILATION. Continuation of M. E. 203a.

Prerequisite: M. E. 203a. 12 credits; 2nd semester (O'Bannon)

METALLURGICAL ENGINEERING

101—ELEMENTS OF OIL SHALE ENGINEERING. Comprises an elementary study of the destructive distillation of oil shales for the production of oil, gas and by-products, together with the history of the oil shale industry and the economic factors upon which the future development of the industry depends.

Prerequisites: Phys. 3b, Chem. 10. 2 credits; 1st semester

(Crouse)

105—ADVANCED METALLURGY OF IRON AND STEEL. A consideration of the metallurgy of iron and steel from the standpoint of the calculations involved in figuring charges, slags, heat efficiency and similar factors of a metallurgist's work.

Prerequisite: Met. 114.

2½ credits; 1st half, 2nd semester (Crouse)

113-PYROMETRY. A laboratory course in the heat treatment

of steel including a study of the various methods used in the measuring of high temperatures. Laboratory four hours a week.

Prerequisites: Phys. 3b, 6; Met. 22. 1 credit; 1st half, 2nd semester (Crouse)

114—METALLURGICAL CALCULATIONS. Comprises a study of the calculations involved in the practical application of the principles of general metallurgy and the metallurgy of non-ferrous metals such as copper, lead, zinc and aluminum.

Prerequisites: Met. 4, 19; Phys. 3b, 6; 3 credits; 1st semester

(Crouse)

Chem. 10.

205—HEAT TREATMENT OF METALS AND ALLOYS. The various factors involved in the heat treatment of metals and alloys are considered with special emphasis to the particular metal or alloy on which the student wishes to specialize. Reference reading and laboratory work are emphasized. Lectures and recitations two hours a week; laboratory eight hours a week.

Prerequisite: B. S. in Met. Eng. or its equivalent.

6 credits; 1st semester (Crouse)

206—OIL SHALE TECHNOLOGY. Involving a detailed study of the principles and methods used in the production of oil from shales. Reference reading and laboratory work emphasized. It is desirable that the student have some knowledge of physical and organic chemistry. Lectures and recitations three hours a week; laboratory twelve hours a week.

Prerequisites: Chem. 10; Phys. 3b.

9 credits; 2nd semester (Crouse)

207—TECHNOLOGY OF ALLOYS. A study of the principles and practice used in the production of alloys of various kinds with special stress on any particular group of alloys that the student may choose. Reference reading and laboratory work are emphasized. Lectures and recitations two hours a week; laboratory eight hours a week.

Prerequisite: B. S. in Met. Eng. or its equivalent.

6 credits; 1st semester (Crouse)

208—ADVANCED METALLOGRAPHY. A detailed study of the structure of metals and alloys together with their preparation for examination under the microscope for such examination. Reference reading and laboratory work are emphasized. Lectures and recitations two hours a week; laboratory eight hours a week.

Prerequisite: B. S. in Met. Eng. or its equivalent.

6 credits; 2nd semester (Crouse)

 $209\mathrm{--ADVANCED}$ ORE DRESSING. A study of the technique of ore dressing plant design and an opportunity for original research in

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concentration problems. Lectures and recitations two hours a week, laboratory eight hours a week.

Prerequisite: B. S. in Met. Eng. or its equivalent.

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(Crouse)

210—TECHNOLOGY OF LOW TEMPERATURE CARBONIZATION. A detailed study of the principles and practices employed in the low temperature carbonization of carbonaceous materials such as bituminous and channel coals. Reference reading and laboratory work emphasized. Lectures and recitations two hours a week, laboratory eight hours a week.

Prerequisite: B. S. in Met. Eng. or its equipment.

6 credits; 2nd semester (Crouse)

MINING ENGINEERING

203—MINE ORGANIZATION. A detailed study of the structure and function of a mining enterprise from both the financial and engineering standpoints.

Prerequisite: B. S. in Min. Eng. or its equivalent.

3 credits; 1st semester (Emrath)

206—EXPLOSIVE ENGINEERING. A study of the principles involved in the use of explosives in large-scale mining and quarrying practice.

Prerequisite: B. S. in Min. Eng. or its equivalent.

2 credits; 2nd semester (Emrath)

207—ADVANCED PROSPECTING. A detailed study of the printiples involved in geophysical investigation of the mineral of the earth's crust.

Prerequisite: B. S. in Min. Eng. or its equivalent.

2 credits; 1st semester (Emrath)

208—COAL DUST INVESTIGATION. Research work. The design of a laboratory scale gallery for the investigation of the explosive qualities of native bituminous coals.

Prerequisite: B. S. in Min. Eng. or its equivalent.

4 credits; 2nd semester
(Emrath)

209—ADVANCED MINE ENGINEERING. A detailed study of the procedure and methods used, in collecting and recording data and engineering information, involved in the systematic development and exploitation of a mining property. Lecture and recitations three hours a week, drawing and mapping eight hours a week.

Prerequisite: B. S. in Min. Eng.

7 credits; 1st semester

or its equivalent.

VIII. FINE ARTS

ART

112a—ADVANCED COMPOSITION. A study of pictorial organization for advanced students. Six studio hours a week.

Prerequisites: 12 credits in Drawing 2 credits; 1st semester and Painting, 4 credits in Design, and approval of Department Head.

(Fisk)

112b—ADVANCED COMPOSITION. Continuation of 112a. One major problem will be carried out in this course. Six studio hours a week.

2 credits; 2nd semester (Fisk)

115a—INDEPENDENT WORK. Individual work in Painting, Illustration or Applied Design. Open only to advanced students upon approval of Department Head.

3 credits; 1st semester (Rannells, Fisk)

115b—INDEPENDENT WORK. Continuation of 115a.

3 credits; 2nd semester

(Rannells, Fisk)

116a—ETCHING. This is a course in the process of etching open only to advanced students whose work merits reproduction. Eight studio hours and weekly problems.

Prerequisites: 12 credits in Drawing 4 credits; 1st semester and Painting, 4 credits in Design, and approval of Department Head. (Fisk)

116b—ETCHING. Continuation of 116a. Eight studio hours and weekly problems,

4 credits; 2nd semester (Fisk)

140—SURVEY OF ART. This course is recommended to those students and graduates of the upper division who have not scheduled the regular undergraduate History of Art courses. Graphic and plastic arts are studied analytically for basis of judgment and appreciation. Lectures, conferences and reports. Three hours a week.

3 credits; both semesters (Rannells, Lowry)

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105—petency principal

106a-American pleading,

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IX. LAW

The following courses in the College of Law are accepted as graduate work when taken by students majoring in Political Science, Economics, Sociology, Commerce or other fields in which such courses are recommended by the major professors:

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lastic tion. 105—AGENCY. Keedy's Cases. Nature of the relation, competency of parties, appointment, delegation of authority, liabilities of principal and of agent, ratification, undisclosed principal, termination.

3 credits; 2nd semester (Moreland)

106a-106b—PLEADING I and II. Sunderland's Cases. The Anglo-American legal system, common law forms of actions, common law pleading, modifications thereof by the codes and equity pleading. 3 credits; 1st and 2nd semesters (Randall)

164—CONFLICT OF LAWS. Lorenzen's Cases. Domicile, jurisdiction of courts, procedure, contracts, property, movable and immovable, family law, divorce, inheritance, foreign administration, foreign judgments.

3 credits; 2nd semester (Black)

161a-161b—CONSTITUTIONAL LAW I and II. Evans' Cases. Division of powers, the dual system of government, scope of federal powers, taxation, money, banking, postal, military and treaty powers, regulation of commerce, the impairment of contracts, jurisdiction of federal courts, the police power, due process of law, equal protection of the law.

4 credits; 1st and 2nd semesters (Black)

101a-101b—CONTRACTS I and II. Williston's Cases. Formation, parties, consideration, formalities, contracts for the benefit of third persons, assignments, joint obligations, conditions and implied conditions, impossibilty.

6 credits; 1st and 2nd semesters (Murray)

107a-107b—CRIMINAL LAW I and II. Sayre's Cases. Nature of the crime problem, the theory of punishment, procedure, characteristics of particular crimes.

2 credits; 1st and 2nd semesters (Moreland)

121a-121b—EQUITY I and II. Cook's Cases, Volumes I and II. Methods of enforcing and legal effects of equitable decrees, relation of common law and equity, powers of courts of equity, inadequacy of remedy at law, interests protected, balancing the equities. Specific performance, affirmative and negative contracts, mutuality consideration, conditions, marketable title, laches and the Statute of Limita-

tions, partial performance with compensation, the Statute of Frauds, equitable conversion, equitable servitudes, misrepresentations, mistake, hardship, plaintiff's conduct as a defense.

6 credits; 1st and 2nd semesters (Moreland)

124a-124b—EVIDENCE I and II. Hinton's Cases. Court and jury, presumptions and burden of proof, admission and exclusion of evidence, competency, privileges, examination of witnesses, hearsay rule and its exceptions, dying declarations, admissions, and confessions; statements against interest, regular and official entries, reputation, statement of pedigree, spontaneous statements, the opinion rule, circumstantial evidence, best evidence rule, parole evidence rule.

4 credits; 1st and 2nd semesters (Randall)

123—NEGOTIABLE INSTRUMENTS. Bills and Notes. Smith and Moore's Cases. Formal requisites of negotiability, acceptance, delivery, endorsement, rights and duties of holder, liability of maker, acceptor, drawer and endorser.

3 credits; 1st semester (Roberts)

125a-125b—PRACTICE COURT I and II. Selected Cases. Presentation and argument of cases by members of the class before the trial court, proceedings in review before appellate court.

2 credits; 1st and 2nd semesters (Randall)

160a-160b—PRIVATE CORPORATIONS I and II. Richard's Cases (2nd edition). Characteristics, formation, powers and liabilities, rights of stockholders' directors, legislative control, dissolution, creditors.

4 credits; 1st and 2nd semesters (Evans)

104a—PROPERTY I (Personal Property). Warren's Cases. The nature of possession, separation of the custody or use from the possession, bailments, finders, bona fide purchase, judicial sale, Statute of Limitations, accession, tortious confusion, gifts, sale and bailments, liens and pledges, conversion.

3 credits; 1st semester (Roberts)

104b—PROPERTY II. Introduction to Real Property. Warren's Cases. Estates, common law method of creating and conveying estates, Statute of Uses, rights incident to the ownership of land, fixtures, easements, waste, emblements, licenses and covenants running with the land.

3 credits; 2nd semester (Roberts)

122—PROPERTY III. Titles and Conveyancing. Warren's Cases. Adverse possession, prescription, accretion, execution and delivery of deeds, boundaries, exception and reservation, easements by implication, covenants of title, estoppel, priorities.

3 credits; 1st semester (Murray)

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162—PROPERTY IV. Future Interest. Kale's Cases on Future Interests. Rights of entry, possibilities of reverter, reversions, remainders, executory limitations, limitations to classes, powers, rule against perpetuities and illegal restraints and conditions.

3 credits; 2nd semester (Roberts)

166—SALES. Williston's Cases. Subject matter of sale, executory and executed sales, bills of lading, fraud, liens and their enforcement, stoppage in transitu, inspection, warranty and remedies for breach of warranty, Statute of Frauds.

3 credits; 2nd semester (Murray)

102a-102b—TORTS I and II. Ames and Smith's Cases (Pound's Edition). Assault and battery, false imprisonment, negligence and contributory negligence, unintended non-negligent interference, deceit, malicious prosecution, defamation, interference with privacy, interferece with advantageous relations.

6 credits; 1st and 2nd semesters (Black)

120a-120b—TRIAL PROCEDURE I and II. Sunderland's Cases. The jurisdiction of courts, process and appearance, proceedings based on the record, incidents of jury trial, instructions, argument of counsel, verdicts, judgments, new trials, appellate practice, review.

2 credits; 1st and 2nd semesters (Randall)

165—TRUSTS. Scott's Cases. The nature of a trust as compared with other relations, the creation and elements of a trust including charitable trusts, resulting and constructive trusts, remedies of the cestui que trust, the transfer by the cestui to trust, who are bound, liabilities of the trustee, investment of funds, termination of trusts.

4 credits; 1st semester (Evans)

163—WILLS AND THE ADMINISTRATION OF ESTATES. Warren's Cases. Testamentary capacity, the making, revocation, republication and revival of wills, lapsed and void devises and legacies, jurisdiction of court to grant letters testamentary and of administration, the interests, contracts and transfers of the personal representative, inventary, inheritance tax, payment of debts, legacies and distributive shares.

3 credits; 2nd semester (Evans)

167—ADMINISTRATIVE LAW. Freund's Cases in Administrative Law, 2nd edition. Administrative power and action, administrative discretion, notice of hearing, summary action, relief against administrative action, mandamus, certiorari, and other extraordinary legal remedies, equitable relief, jurisdictional limitations, and administrative finality.

3 credits; 1st semester (Black)

168—ADMINISTRATION OF THE CRIMINAL LAW. Keedy's Cases on the Administration of Criminal Law. Police officers, arrest,

investigation of crime, the magistrate, indictment and information, jurisdiction of the trial court, venue, interstate rendition, arraignment, the petit jury, the prosecuting attorney, counsel for defense, the verdict, methods of review.

2 credits; 1st semester (Moreland)

146—BANKRUPTCY. Holbrook and Aigler's Cases. Relation of state and federal governments in matters of bankruptcy, the bankrupt, petitioning creditor, acts of bankruptcy, the trustee, provable claims, preferences and discharge.

2 credits; 1st semester (Moreland)

154—DAMAGES. Beale's Cases. Nature of damages, avoidable consequences, counsel fees, certainty, compensation, damages for non-pecuniary injuries, pain, inconvenience, mental suffering, aggravation value, interest, special rules in certain actions, damages for death, eminent domain.

2 credits; summer session (Moreland)

148—DOMESTIC RELATIONS. McCurdy's Cases. Marriage and divorce, property interests of husband and wife, mutual obligations of the spouses, parent and child.

2 credits; 2nd semester (Roberts)

145—INSURANCE. Woodruff's Cases. Insurable interests, the contract, concealment, representations and warranties, implied conditions, waiver and estoppel, construction.

2 credits; summer session (Roberts)

140—INTERNATIONAL LAW. Evans' Cases. Sources, international persons, jurisdiction and state sovereignty, diplomatic representatives, belligerency, prize law, blockade, neutrality.

2 credits; 2nd semester (Vandenbosch)

143—MORTGAGES. Campbell's Cases. Elements of the mortgage, equitable mortgages, redemption, foreclosure, statutory redemption after sale, accounting, discharge, priorities, assignment and marshalling.

2 credits; summer session (Roberts)

149—MUNICIPAL CORPORATIONS. Tooke's Cases. Incorporation and existence, municipal officers, revenue, indebtedness, police power, zoning, liability for injuries received upon contracts implied in law and on implied contracts.

2 credits; 1st semester (Black)

152—OIL AND GAS. Kulp's Cases. Nature of landlord's right in oil and gas, interference, measures of damages, the oil and gas lease, drilling operations, storage and use of oil and gas, pipe line and transportation companies, taxation.

2 credits; summer session (Moreland)

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141—PARTNERSHIP. Crane and Magruder's Cases. Elements, formalities of organization, powers of partners, partnership obligations, duties, insolvency and bankruptcy, dissolution, accounting, estoppel.

2 credits; 2nd semester (Roberts)

150—PUBLIC UTILITIES. Robinson's Cases. Nature of public service, public employment and profession, withdrawal, duty to public, refusing service, commencement of service, management, liability for default, termination of service, regulation of charges, discrimination.

3 credits; 2nd semester (Murray)

147—QUASI-CONTRACTS. Thurston's Cases. Nature of quasicontracts, benefits conferred by mistake, benefits conferred where further performance is impossible or contract is illegal or unenforceable, benefits conferred without contract or under compulsion.

2 credits; summer session (Randall)

151—SURETYSHIP. Ames' Cases. Nature of suretyship, Statute of Frauds, surety's defenses, subrogation, indemnity, contribution and exoneration, creditor's right to surety's remedies.

3 credits; 1st semester (Murray)

153—TAXATION. Casebook to be selected. Jurisdiction, public purpose, classification, exemptions, taxation of governmental agencies, direct and indirect taxes.

3 credits; 1st semester (Black)

144—USE OF LAW BOOKS. Selected problems, Cooley's Brief Making and Use of Law Books. How to find the law, use of digests, reports, text books, and encyclopedias.

2 credits; 1st semester (Roberts)

142—WORKMEN'S COMPENSATION. Selected Cases. The servant at common law, constitutionality of compensation acts, Kentucky and other compensation acts, abolishment of common law defenses, class legislation, police power, compulsory acts, "personal injury by accident", sunstroke, pre-existing diseases, traumatic injuries, occupational diseases, the locus of the accident, horseplay, an intensive study of the provisions of the Kentucky Act.

2 credits; 1st semester (Moreland)

169—LAW OF THE AIR. Selected cases and readings. The course will deal principally with aircraft law as follows: proprietary rights in air space at common law, federal and state statutes, tort liability, criminal responsibility, aircraft as common carriers, the rules of the road, international aspects of air law, legislation for future development of air law.

2 credits; summer session (Randall)

GRADUATE STUDENTS

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Abner, Adams, Adams, Adams, Addams Alexand Allen, C Allen, H Allison, Allison, Allison, Alms, M Alton, Ja Ambrose Amerson Amis, Ed Andrews, Anna, A. Archer, F Armstron Armstron Arnold, A Arnold, N Arterberr Ashbrook, Atkinson, Averett, I Avis, Kyle Bach, Car Bach, Wil Badgett, F Bailey, Ed Bailey, V. Baird, Wil Baker, Be Baker, Lav Baker, W. Baldree, W Barker, Fr. Barker, O. Barker, Po Barnes, Jo

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Lawrence Manning Baker Hugh Stone Calkins James Baylor Holtzclaw Virginia Clay McClure John B. McQuitty	Lexington Stanford Lexington			
Orba Forest Traylor	Providence			
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William O. Blackburn Rubie Diebert Paul P. Dull Herbert F. Parker Henry T. Polk Richard Kenneth Thornberry Banker White Samuel Madison Worthington, Jr. Ray Herbert Wright Kwoh Yu-Yu	Green Bay, Wis. Celina, Ohio Lexington Lexington Newport Lexington Lexington Cox's Creek			
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REGISTER OF GRADUATE STUDENTS 1931-1932

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Name	Moder	
Abner, James Robert	Major	Address
Adams, Henry A.	Political Scien	ce Lancaster
Adams, Mary Christian	Economics	Owenton
Adams, Mrs. Nellie E.	Animal Industr	ry Brighton
Addams, Lucy L.	Education	Lexington
Alexander, Georgia E.	English	Cynthiana
Allen, Charles Edward	Ancient Langua	ges Lexington
Allen, Harry Raymond	Education	Wilmore
Allison, Edith Alicia	Chemistry	Lexington
Allison, E. E.	English	Paris
Allison, Nathan B.	Education	Minerva
Alms, Mrs. Ruth Moffitt	Mathematics	Columbia
Alton, James T.	Romance Langu	ages Lexington
	Education	Glendale
Ambrose, Luther Martin Amerson, Ruth	Education	Rerea
Amis, Edward S.	Romance Langua	ages Texas
	Chemistry	Himyar
Andrews, Alfred James Anna, A. E.	History	Lexington
Archer, Robbie	Education	Ashland
	English	Athens, W. Virginia
Armstrong, Jesta Bell	Education	Harrodsburg
Armstrong, Watson A.	Education	Flemingsburg
Arnold, Antoineete Louise	Education	Berea
Arnold, Marguerite G.	Education	Louisville
Arterberry, Terry L.	Education	Tompkinsville
Ashbrook, Mary F.	Education	Bardwell
Atkinson, Stella C.	History	Irvine
Averett, Lloyd B. Avis, Kyle	Commerce	Lexington
	Home Economics	Neibert, W. Va.
Bach, Carmie E.	English	Lexington
Bach, William Earl	Geology	Mt. Sterling
Balley Fider Lee	Zoology	Nicholasville
Bailey, Edgar W. Bailey, V. C.	Education	Ashland
Raind Will:	Mathematics	Emory, Virginia
Baird, William Jesse	Education	Berea
Baker, Bessie E.	English	Nicholasville
Baker, Lawrence M.	Psychology	Manchester
Baker, W. Maurice	Education	Somerset
Baldree, William Hickman	Education	Lovelaceville
Barker, Frances W.	Chemistry	Louisville
Barker, O. W.	Animal Industry	Paducah
Barker, Powell Elmer	Education	Winchester
Barnes, John Harmon	Education	Springfield
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UNIVERSITY OF KENTUCKY

Name	Major	Address
Barnett, Van Allen	Physics	Murray
Baucom, Mrs. Edna S.	Education	Lexington
Baugh, Dan R.	Mathematics	Pineville
Baute, Edward Arthur	Animal Industry	
Baxter, William Elbert	Mathematics	Bloomfield
Beale, Mildred	Ancient Languag	ges Murray
Bell, Elbert	English	Eminence
Bennett, Clemon A.	Political Science	
Bennett, Reginald V.	Mathematics	Columbia
Bennett, William Arch	Education	Frankfort
Berry, Armon C.	Education	LaCenter
Berryman, Robert	Education	Winchester
Bert, Adda Marie	Education	Wilmore
Best, Nannie Louise	Romance Langua	ages Lexington
Bevarly, R. W.	Education	Worthville
Bishop, Paul M.	Commerce	Harrisburg, Penn.
Blackburn, William Opal	Animal Industry	Dry Ridge
Blake, Charles W.	Education	Brandenburg
Blakey, Lula Beatty	History	Beattyville
Bland, Winnie	Education	Bowling Green
Bleidt, Mrs. Helen Morris	History	Lexington
Blevins, Mrs. Frances J.	Education	Lexington
Bond, Jessie L.	Education	Humboldt, Tenn.
Boone, Hazel Dale	Education	Lexington
Boston, John Philip	Engineering	Drexel Hill, Penn.
Boswell, James Malcolm	Mathematics	Cynthiana
Botto, Mark M.	Education	Munfordville
Botts, Earl	English	Carlisle
Botts, Mary Scearce	Education	Bagdad
Bowling, Justus Hampton	Education	London
Bowman, Mary Withers	Education	Lexington
Boyd, William Hyland	Education	Farmington
Brabant, Kenneth A.	Education	Perryville
Braden, Norman Adelbert	Zoology	Lexington
Bradford, Laurence A.	Education	Flemingsburg
Bradley, Ayanelle	English	Morehead
Breitenhirt, B. Blake	Psychology	Gilbert, W. Va.
Brent, Roy Wilson	Commerce	Campbellsburg
Brewton, Voncile Augusta	Sociology	Latonia
Bridges, Ulva	Zoology	Georgetown
Broadbent, Geneva R.	Home Economics	Cadiz
Brom, Roman T.	Education	Louisville
Bronston, Jake	Education	Lexington
Brooks, David	Education	Cunningham
Broughton, P. M.	Education	Hammond
Brown, Charles Slaughter	Education	Morgan
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Name Brown, H. R. Brown, John S. Brown, Lafayette M. Brown, Marion C. Brown, Raymond Lee Brown, R. P. Brummette, Irene Bryant, Nathan D. Bryant, Thomas Ripley Buchanan, John Victor Burton, W. E. Butcher, Nola Mae Byars, Franklin Howard Byrd, Uva S. Bywaters, James Humphreys Calfee, Rothwell Leigh Calkins, Hugh S. Cammack, James W., Jr. Campbell, G. W. Campbell, Rose Campbell, W. A. Carden, Robert Winston Carman, Armiel Carpenter, Winifred L. Carr, Dorothy Duvall Carr, John B. Carr, Katherine Duvall Cartwell, Richard B. Cash, Henry L. Cassidy, Wiley Lee Cassity, G. W. Caswell, Durward B. Cawood, Frank Finley Cawood, Nancy Minerva Cawood, Thelma Gay Chambers, Tullus A. Chambers, Wilbur W. Champion, Lois Chanslor, Mrs. Lucile C. Chavis, Alexander Childers, Mrs. Beulah R. Chinn, Mrs. Amelia V. Clapp, Mrs. Helen W. Clay, Thelma Clayton, S. T.

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Cleek, Mary Lydia

Major Address Education Ashland Education Marion Education Lawton Mathematics Lexington Zoology Beaver Dam History Beaver Dam English Lexington Education Scottsville Farm Economics Lexington Education Morganfield Education Corbin English Middlesboro Education Smithville, Tenn. Marketing Murray Animal Industry Ashland Agronomy Lexington Education Lexington Education Owenton Education Corbin Education Louisville Education Lexington Bacteriology Greenville Education Lexington Education West Liberty English Lexington Education Linton Anatomy & Physiology Lexington Education Maysville Education Lancaster Education Catlettsburg Economics Georgetown Education Upton Engineering Harlan English Winchester Mathematics Winchester Education Benton Mathematics Lexington Romance Lang. Lawrenceburg History History Education Jefferson City, Tenn. English Lexington English Georgetown Education Wilmore Zoology Richmond Education Senatobia, Miss. Zoology Lexington

Name	Major	Address
Cleveland, Forrest F.	Physics	Lexington
Cloyd, Ruby B.	English	Lexington
Clynes, Catherine C.	Education	Nicholasville
Coates, Thomas Henry	Economics	Richmond
Cobb, John Buford	Education	Owenton
Cocanougher, Hubert A.	Education	Perryville
Cole, Basil C.	Animal Industry	Bowling Green
Colleý, Sunshine	Home Economics	Farmington
Collier, Blanton L.	Anatomy & Physi	
Congleton, Duke Wells	Animal Industry	Taylorsville
Congleton, Virginia Lee	Chemistry	Lexington
Conley, Mabel Claire	Romance Language	es Lenoir, N. C.
Cook, Frances A.	English	Lexington
Cook, John Jay, Jr.	Education Hu	ntington W. Va.
Coop, Walter Farris	Education	Burnside
Cooper, John Russell	Education	Calhoun
Cooper, Watt Martin	English	Blackey
Cornelison, Mary Keith	Psychology	Danville
Cox, John K.	History	Burgin
Cracraft, Lucy Jane	Ancient Language	s Shelbyville
Craig, Isabel	Education	Lexington
Crain, Sarah Pauline	English	Flemingsburg
Crawford, Albert Byron	Education	Lexington
Crawley, Clyde B.	Physics	Lexington
Crayton, Mrs. Lois Shirley	English	Lexington
Crenshaw, Cecyl Belle	History	Herndon
Crick, Mrs. Evelyn B.	Education	Hellier
Crick, Herbert Woodson	Education	Hellier
Crisp, John Langley	English	Sandy Hook
Croft, Lysle Warrick	Psychology	Lexington
Crosby, James F.	English	Simpsonville
Crouch, Lois Alexander	Ancient Languages	Cincinnati, 0.
Crutcher, Ernest J.	Education	Lexington
Crutcher, Frank Douglas	Education	Versailles
Cubbage, Aeline	Education	Owenton
Culbertson, Raymond E.	Agronomy	Lexington
Cullis, Lela Elizabeth	Education	Lexington
Cummins, Squire R.	Education	Crab Orchard
Cundiff, Margaret E.	English	Lexington
Curry, B. L.	English	Bowling Green
Curry, L. C.	Education	Bowling Green
Dagley, Cynthia Ruby	Romance Language	s Lexington
Daily, Mary Bruce	History	Lexington
Dampier, William Bruce	Education	Cropper
Darnaby, Ansel Nicholas	Chemistry	Clintonville
Davenport, K. Elizabeth	Education	Lexington

Davis, Davis, Davis, Davis, Davis, Davis, Davis, Davis, Davis, S Davis, V Day, Cla Deacon, Dietz, L Denney, Depew, Derickso Devary, Devary, Dickey, Diebert, Dietrich, Dillon, L Dishon, Dorsey, A Dorsey, 1 Doughert Douthitt, Dowell, E Duboise, Dudley, I Dudley, N Dull, Pau Duncan, I Duncan, S Dunn, D. Dunn, Lau

Dunn, Mrs Dunne, Ca Du Rand,

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Name	Major	Address .
Davis, Finley Houston	Commerce	Lexington
Davis, Grace Alexander	Education	Lexington
Davis, Horace Leonard	Education	Mt. Vernon, Ark.
Davis, Hugh Leonard	Education	Rose Hill
Davis, John Stark	Education	Crestwood
Davis, Marion I.	German	Lexington
Davis, Mary Magdalene	English	Glasgow
Davis, Mildred B.	Botany	Inverness, Florida
Davis, Pearl Virginia	Education	Lexington
Davis, S. Beverly	Economics	Cave City
Davis, Velma Marie	Education	Decatur, Illinois
Day, Clarice Alberta	Education	Lexington
Deacon, James Murrell	Education	Winchester
Dietz, Lois Eloise	Education	Wilmore
Denney, Sam J.	English	Speedwell
Depew, Bertha	Education	Lexington
Derickson, Elise M.	Ancient Langua	ges Mt. Sterling
Devary, Evyline	English	Winchester
Devary, Reuben B., Jr.	Education	Winchester
Dickey, Mrs. Katherine B.	Education	Lexington
Diebert, Rubie	English	Green Bay, Wis.
Dietrich, Aimee L.	English	Lexington
Dillon, Lacy A.	History Gl	en Rogers, W. Va.
Dishon, Elise Lee	Education	Lexington
Dorsey, Alice Young	Ancient Languag	ges Henderson
Dorsey, E. Van	Political Science	Lego, W. Va.
Dougherty, Virginia L.	Romance Langua	ges Lexington
Douthitt, Slayden W.	English	Farmington
Dowell, Ed Neame	Education	Little Cypress
Duboise, Thomas	Education	Murray
Dudley, Hal Ellsworth Dudley, Mary S.	Education	Robards
Dull, Paul P.	Romance Langua	ges Georgetown
Duncan, Mary Laura	Political Science	Celina, O.
Duncan, Sara Elizabeth	English	Lexington
Dunn, D. Y.	English	Lexington
Dunn, Laura Lindsay	Education	Lexington
Dunn, Mrs. Noma U.	Psychology	Lexington
Dunne, Catherine H.	English	Lexington
Du Rand Fider File	Romance Langua	ges Lexington
Du Rand, Elden Edwin, Jr.	Education	Louisville
Durham, Austin Sparks	Education	Mt. Vernon
DuVall, William N.	Education	Elkton
Dye, Mabel C.	Education	Maysville
Easley, Nell M.	Mathematics	Williamsburg
Easley, Willie Kate	Home Economics,	Stamping Ground
Eckler, Ralph Clifton	Education	Dry Ridge
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Name

1101110
Eddleman, James C.
Edwards, Mrs. Julia T.
Elam, James Alexander
Elder, Mrs. W. B.
Ellington, Ethel Lee H.
Elliott, Julian N.
Engle Fred Allen
Engle, Fred Allen Engle, Myrtle
Ennis, James M.
Erl, Margaret
Evans, Albert Robinson
Evans, Douglas v.
Evans, Douglas V. Evans, Katherine M. Evans, Thelma Bernice
Evans, Therma Bernice
Ewan, Mrs. Julia
Fancher, Georgie Marie
Farber, Ben
Farber, Morris
Farley, Claude Herman
Farley, L. Clyde
Farrington, O. M.
Feebach, Tillie Hamilton
Ferguson, William C.
Ferrille, Andrew
Fincel, Neville Warwick
Fisher, Stewart H.
Fisher, Wayne B.
Fogle, Ruby
Ford, Thomas Howard
Forkner, Mary Emma
Forsythe, Katherine A. Forsythe, Mildred M.
Forsythe, Mildred M.
Fortune, Emily
Foster Nettie B
Foster, Nettle B. Foust, William Wayne
Fouts, Numia Lee
Fowler, Sudie B.
Fox, Christine Margarett
Fraser, Ruth Marion
Fraysure, William Howard
Frazer, Josephine V.
French, Irene
Friedman, Louis
Fright M V
Frisby, M. V. Fuller, Katherine E.
Gabbard, Eugene Field

Major	Address
Education	Crittenden
Education	Winchester
Economics Fr	rank Ewing, Tenn.
Home Economics	Morehead
Education	Morehead
Political Science	Lancaster
Education	Richmond
Education	Princeton
Political Science	Edmonton
English	Dayton
Education	Williamsburg
Education	Edinburg, Va.
Education	Beattyville
Education	Lexington
Education	Lexington
Education	Barbourville
Engineering	Newport
Geology	Newport
Education	Pikeville
Political Science	Pikeville
Marketing	Lexington
English	Carlisle
Engineering	Cartersville, Ga.
Mathematics	Lexington
Education	Frankfört
Education	Montevideo, Minn.
Education	Clinton
English	Yosemite
Education	West Louisville
Home Economics	s Winchester
Psychology	Lexington
Education	Lexington
English	Lexington
Education	Lexington
Education	Owensboro
English	Russell
Education	Cynthiana
Home Economics	Lexington
Economics	Harrodsburg
Education	Springfield
Education	Paducah
Education	Owensboro
Education	Winchester
Animal Industry	Frankfort
Romance Langu	ages Lexington
Education	Arnett
Education	

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Gabbar Gable, Gable, Gambi Gard, Gardne Gardne Garnet Gatliff, Gault, Georgi, Gibson Gibson, Gifford Gilb, E Gill, A1 Gillis, Gillock Glass, Goldber Golden, Gooch, Good, (Gordon Gordon, Gothern Gothern Gover, Grable, Graham Graham Graham Grant, Gray, C Gray, H Gray, J Green, Greenfie Greer, I Gregory Grehan, Griffin, Griffin, Groves, Guard, Gum, Ar

	GRADU
lress	Name
	Gabbard, James Lawrence
tenden chester	Gable, Kathryn E.
Tenn.	Gable, Margaret Louise
rehead	Gambill, Lenna
rehead	Gard, Paul Dombey
ncaster	Gardner, Norris L.
chmond	Gardner, S. Jack
inceton	Garnett, Gladys
monton	Gatliff, Kathryn
Dayton	Gault, Lelah Vaughn
msburg	Georgi, Marion Catherine
rg, Va.	Gibson, William J.
ttyville	Gibson, Mrs. William J.
kington	Gifford, Chloe
kington	Gilb, Elmer
ourville	Gill, Anna Dade
ewport	Gillis, Catherine E.
ewport	Gillock, Morgan Edward
ikeville	Glass, Dan R.
ikeville	Goldben, Isadore
xington	Golden, William C.
Carlisle	Gooch, Margaret Ellis
le, Ga.	Good, Graham R.
kington	Gordon, Mrs. Maria B.
ankfört	Gordon, Mary Agnes
, Minn.	Gotherman, Edward Earl
Clinton	Gotherman, Jessie F.
semite	Gover, Lewis Edward
uisville	Grable, Mrs. Joe C.
chester	Graham, Beulah
kington	Graham, Carman M.
xington	Graham, W. B.
kington	Grant, William Arthur
xington	Gray, C. Merle
ensboro	Gray, H. B.
Russell	Gray, John
nthiana	Green, Robert C.
kington	Greenfield, Esther R.
dsburg	Greer, Marvin S.
ingfield	Gregory, Robert L.
aducah	Grehan, Henry Enright.
nsboro	Griffin, Gertrude L.
chester	Griffin, Hallie K.
ankfort	Groves, Howard H.
xington	Guard, Norman M.
Amott	Gum Anna G

Gum, Anna Campbell

Arnett.

Major	Address
Chemistry	Lexington
English	Burnside
Art	Burnside
History V	West Jefferson, N. C.
Education	Lexington
Education	Macon
History	Bardwell
Mathematics	Lexington
Education	Williamsburg
Chemistry	Lexington
Education	Ashland
Education	Murray
Home Econom	
Political Science	
Physical Educa	
Commerce	Richmond
English	Williamsburg
Education	Port Royal
Education	Wilmore
Chemistry	Lexington
Education	Mt. Sterling
Romance Lang	
Zoology	English
History	Winchester
Psychology Education	Washburn, N. D.
Education	Lexington
Education	Lexington
Education	Lexington
Mathematics	Gordonsville
	Brandenburg Dexter, New Mexico
History	Dexter, New Mexico Arlington
English	Louisville
Education	Greendale
Education	Bristow
Political Scienc	
Education	e Sandy Hook Howell
Education	Lexington
Education	Owensboro
Engineering	Glendale, Calif.
History -	Lexingtan
Education	Danville
Home Economic	
Education	Lexington
Education	Lexington
English	Lexington

Name	Major	Address
Gundlach, Adelaide	Education	Berea
Guthrie, Julia A.	Education	Henderson
Guthrie, Mrs. Mildred B.	Political Science	Lexington
Guy, Hollis P.	Commerce	Beckley, W. Va.
Gwinn, Marion Swope		Princeton, W. Va.
Gwinn, Russell	History	Princeton, W. Va.
Hagan, Sara Elizabeth	English	
Haggard, Anna Elizabeth	English	Brandenburg
Haines, Mary Vivian	History	Winchester
Hale, W. J.	Education	Ewing, Va.
Hall, Hubert B.	Education	Lexington
Hammonds, Colonel	Education	Richardsville
Hancock, Lois	English	Bourne
Hanner, William H.	Mathematics	Henderson
Harbold, Lucile Lee		Inez
Hardy, Beryl	Political Science	Lexington
Hare, Miriam Alice	English	Lexington
	Home Economics	Paintsville
Harned, Elizabeth R.	Home Economics	Shepherdsville
Harned, Janice	Mathematics	Shepherdsville
Harney, Clarence W.	Education	Georgetown
Harp, Mrs. Julia Mathis	Education	Lexington
Harris, Esther Lynne	English	Taylorsville
Harris, Lelia Jane	Education	Richmond
Harris, O. H.	Education	Winchester
Harris, William	Physics	Warsaw
Harrison, Antoinette	Education	Lexington
Harrison, Mrs. Roberta A.	Education	Lexington
Hartford, Ellis Ford	History	Williamstown
Hartnell, Elizabeth Lila	Education (Cheathanham, Md.
Hastie, Edna Maybelle	History	Bowling Green
Hatfield, Charles	Mathematics	Georgetown
Hawkins, Claude Lee	Education	Wilmore
Haydon, Catherine G.	Education	Lexington
Haynesworth, Joseph H., Jr.	Physics	Sumpter, S. C.
Headley, Charles William	History	Lexington
Hearin, Marshall E.	Education	Boxville
Hearn, Spicie Belle	Education	Frankfort
Heath, Alfred Rhoton	Bacteriology	Georgetown
Heberling, May D.	Ancient Language	s Georgetown
Heird, James B.	Education	Versailles
Henderson, Oliver W.	Education	California
Hendricks, Samuel F.	Mathematics	Berea
Henry, Elizabeth B.	Ancient Language	s Lexington
Henry, Nellye P.	History	Versailles
Henry, William T.	Education	Georgetown
		Manchester
Hensley, Mayme	English	Manchester

Henson Herma Hesson Hicklin Hieatt, Hieatt, Hilliar Hilton, Hinsda Hinson Hodges Hodgs Hollow Holmes Holt, N Holtzcl Holtzel Hood, Hoover Hoover Horine Horn, Hosack Hounsl Howar Howar Howar Howton Howto Howton Hubban Hubban Huckst Hughe Hughe Hughes Hull, F Hunt, Hurt, S Hutche Hutchi Hyde,

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Name	Major	Address
Henson, Lawrence	Agronomy	Liberty
Herman, Eda	Psychology	Danville
Hesson, Hugo Thruston	Education	Millersburg
Hicklin, R. S.	Geology	Marion
Hieatt, Kate Gray	English	Lexington
Hieatt, Martha Fox	English	Lexington
Hilliard, Ruth L.	English	Newbern, Tenn.
Hilton, Everett P.	Education	Science Hill
Hinsdale, Reuben Culpepper	Chemistry	Ewing
Hinson, Ellery	Education	Frankfort
Hodges, Harvey Griffin	Commerce	Lewisport
Hodgson, Ernest E.	Animal Industry	Harveyville, Kan.
Holloway, Mary Cole	English	Lexington
Holmes, Mrs. Sarah B.	Sociology	Lexington
Holt, Monte LaVerne	Education	Lexington
Holtzclaw, Harry L.	Education	Stanford
Holtzclaw, James B.	Political Science	Stanford
Hood, Claude M.	Education	Stamping Ground
Hoover, J. L.	Commerce	Calvert City
Hoover, Wilson Ray	Horticulture	Calvert City
Horine, Bessie	Education	Lexington
Horn, Clarence A.	Education	Wickliffe
Hosack, Ivan Gentry	Anatomy & Phys.	. Pittsburg, Pa.
Hounshell, Arthur Curtis	Political Science	Jackson
Howard, Hallie	Romance Langua	ges Cynthiana
Howard, H. A.	Education	Corbin
Howard, John McCaw	Engineering	Lexington
Howton, Mrs. Bertie V.	Home Economics	Hebberdsville
Howton, E. A.	Education	Bandana
Howton, Euel B.	Education	Hebbardsville
Hubbard, Charles	Education	Princeton
Hubbard, Ruth	English	Mayfield
Huckstep, John William	Zoology	Potosi, Missouri
Hughes, Effie Delle	Chemistry	Fanbush
Hughes, Hettie Belle	Chemistry	Somerset
Hughes, W. Brandt	Education	Wilmore
Hull, Floyd Edgar	Bacteriology	Lexington
Hunt, Jesse Martin	Education	Blandville
Hurt, S. M. R.	Education	Morehead
Hutchens, Millard S.	Education	Utica
Hutchinson, Genevieve R.	Political Science	Trezevant, Tenn.
Hyde, Mary Elizabeth	Education	Lexington
Imes, Flo	English	Almo
Inman, B. T.	Farm Economics	Benton
Irvine, Jessie Frank	Psychology	Paris
Irvine, Kate Tipton	English	Paris

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. Name	Major	Address
Jackson, Mrs. Elsye B.	Ancient Languages	Hopkinsville
Jackson, Hugh Russell	Political Science	Lexington
Jackson, Vester A.	Education	Clinton
Jackson, Ward B.	Education	Ashland
Jacobs, Richard T.	Physics	Cynthiana
Jarvis, John Parker, Jr.	Political Science	Georgetown
Jayne, William Wurts	Education	Morehead
Jefferson, Louise P.	English	Crestwood
Jefferies, Lynn	Education	Columbia
Jennings, Rienzi Wilson	Economics	Lexington
Jesse, Edwin Gay	Agronomy	Nicholasville
Jesse, Elizabeth F.	Economics	Nicholasville
Johnson, Mrs. Grace R.	Education	Pikeville
Johnson, Lena O.	Mathematics	Lexington
Johnson, Mary Virginia	Education	Middlesboro
Johnson, Mayrell	Education	Murray
Johnston, Laura Katherine	Physiology	Lexington
Jones, Alice Welch	Education	Springfield
Jones, Bryant Owsley	Sociology	Lexington
Jones, Dorothy Lelia	Education	Lexington
Jones, Earle D.	Zoology	Lexington
Jones, L. Frederick	Education	Lexington
Jones, Lillian B.	Ancient Languages	Williamsburg
Jones, Mary Joe	Education	Lexington
Jones, Parry R.	Chemistry	Williamsburg
Jones, Ralph	Education	Hardin
Jones, Sarah Lillian	History	Lexington
Jones, Warren F.	Education	Winchester
Jones, William Basil	Education	Anchorage
Judy, E. Kevil	Education	Cynthiana
Kardatzke, Carl	Education	Winchester
Karrick, Louticia	Education	Salt Lick
Kaut, Ruth	Political Science	Greenup
Kaut, Thelma Nancy	English	Greenup
Keene, Pluma Dell	Political Sci. Murfi	reesboro, Tenn.
Keffer, John LeRoy	Chemistry	Lexington
Kegley, B. Herbert	Mathematics	Newfoundland
Keller, Earl R.	Mathematics	Lexington
Keller, Wayne H.	Chemistry	Lexington
Keller, Winnie B.	English	Clarkson
Kelley, Annelle Kerr	Education	Lexington
Kelly, Edna A.	Home Economics	Richmond
Kelley, Jack	Education	Murray
Kendall, Glenn	Education	Louisville
Kendall, Jessie	Education	Ewing
Kenney, May Kirk	English	Brooksville
		Drooma

Name	
Kenyon, Jay B.	
Keys, Alice	
Kilby, Mrs. Margaret B.	
Kincheloe, Catherine	
King, Effie	
King, Henry W.	
King, Samuel E.	
Kinney, Frances W.	
Kirk, Edwin Ling	
Kirk, Ernest W.	
Kirk, John Shaw	
Kirk, Margaret V.	
Kirkland, Gladys C.	
Kirkman, Dorris L.	
Kirkman, H. P.	
Kiser, O. L.	
Kraatz, Charles Parry	
Krewson, Charles F.	
Krigegel, Bess Turley	
Kwoh, Yu-Yu	
Lair, Jesse Lee	
Lair, Ruby	
Lam, Annie	
Lancaster, Charles N.	
Lancaster, John Dillard, Jr.	
Lancaster, John W.	
Landrum, Nina	
Langley, McKendree R.	
Langsford, Walter S., Jr.	
Larabee, Norman Cutler	
Latham, Rolla F.	
Layman, M. B.	
Layson, Rowland Chontrelle	
Leake, James Carl	
Lecky, Holland N.	
Lee, Mary Elizabeth	
Lehman, Jeanette	
Lemmon, William Roy	
Leonard, Granville B.	
Leonard, Marjorie	
Lester, Williams Stewart, Jr.	
Lester, William Stewart, Sr.	
Lewis, Bennett	
Lewis, Clyde C.	
Lewis, James Otis	
Lewis, Jane Stanford	
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Major	Address
Zoology	Wilmore
Psychology	Murray
Psychology	Wilmore
English	Hardinsburg
Chemistry	Lexington
Commerce	Horse Cave
Education	Falmouth
English	Lexington
Mathematics	Elyria, Ohio
Physics	Philpot
Anatomy & Phys	
Education	Shelbyville
Botany	Lexington
	Union City, Tenn.
Horticulture	Lexington
Education	Gregoryville
Zoology	Berea
Chemistry	Lexington
Education	Lexington
Education	Louchowfu, China
Education	Pineville
Education	Monticello
Home Economics	
Engineering	Lexington
Engineering	Lexington
Education	Georgetown
Home Economics	Tompkinsville
Romance Lang.	Glassboro, N. J.
Education	Boston
Education	Wilmore
History	Browder Corbin
History	Millersburg
Physics Education H	funtington, W. Va.
Animal Industry	Paducah
English	Lexington
History	Midway
Education	Williamstown
Education	Cornishville
Political Science	Lexington
History	Winchester
History	Winchester
Education	Winchester
Education	Wrigley
Education	Fulton
Education	Lexington

Name	Major	Address
Lewis, Thomas N.	Education	
Ligon, Ernestine A.	Education	Finchville
Lindsay, Blanche Lee	Education	Lexington
Lisanby, Cornelius R.	Education	Maysville
Little, Robert E.	Education	Georgetown
Lively, Elizabeth	English	Berea
Logan, Adele S.	Romance Lan	Ravenna
Long, John Goff	Education	
Long, John Wesley	Zoology	West Liberty
Long, Rebecca C.	Ancient Lang	Eminence
Losey, Hettie Jane	History	
Loudenslager, Ellen W.	Romance Lan	Covington
Loudenslager, Ralph L.	Education	guages Wilmore South Portsmouth
Lovell, Mrs. Aaron G.	English	
Lovely, Lucile	Education	Greenville
Lowe, Mary Wallis	Home Econon	Lexington
Lowry, Minnie Lucile	Education	
Lunde, Mrs. Robert	English	Murray
Lusby, Walter Gayle	History	Lexington
Lutes, Esther	Education	Owenton
Lutkemeier, Carolyn F.	Home Econom	Primrose
Lynn, Harry Richmond	History	
McCabe, Hubert A.	Education	Lexington
McCaw, Lucy Edlin	Education	Sadieville
McClellan, John C.	Education	Lexington
McCluer, Samuel Campbell	Physics	Cayce
McClure, Virginia Clay	History	Cumberland
McCullum, Mrs. Emma E.	Sociology	Lexington
McConnell, Dorothy	Education	Paris
McConnell, Joseph Lawrence	Economics	Lexington
McConnell, L. Frances	Education	Cedar Falls, Iowa
McCoy, Christine C.		Lexington
McCoy, Lottie	Education	Frankfort
McCubbin, Lewis		Raymond, Mississippi
McDonald, Laura Mai	Education	Campbellsville
McFarland, Mary Sue	Education	Louisville
McGill, William Lawson	Ancient Langu	
McGinnis, Katherine	Education	Falmouth
McInteer, Maude	Education	Lexington
McKenna, Catherine C.	History	Lexington
	Physiology	Lexington
McKeon, Catherine P.	Ancient Langu	
McKinney, David H.	Economics	Richmond
McMullin, Edgar Emerson	Education	Leitchfield
McMullin, Thomas Edison	Education	Winchester
McQuitty, John V.	Psychology	Gainesville, Fla.
McWhorter, Mary Esther	English	Buckhannon, W. Va.

Maguire Mahin, Mahone Mahone Manis, Marr, Ja Marrs, Marrs, Marshal Martin, Martin, Mason, Mathew Mathis, Maupin, May, Ar Maynard Medley, Meece, Mercer, Mercer, Meredith Meredith Meuth, I Michael, Middleto Miles, V

Miley, E

Miller, A

Miller, E Miller, F

Miller, G

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Minihan,

Mitchell, Mitchell,

Moberly,

Monson, Moody, T

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Name	Major	Address
Macdonald, Ronald	Romance Lang.	Pewee Valley
Maguire, Mary Josephine	Education	Lexington
Mahin, Jessamine	Education	Wilmore
Mahoney, C. H.	Engineering	Lexington
Mahoney, D. Howard	Commerce	Lexington
Manis, Lloyd Powell	English	Wallins Creek
Marr, Jane Parker	Education	Millersburg
Marrs, Margaret	Education	Nicholasville
Marrs, Mrs. Virginia H.	Education	Lexington
Marshall, Richard W.	Political Science	Lexington
Martin, Dorothy Velander	English	Lexington
Martin, Gladys E.	Education	Lexington
Mason, R. Burgess	Chemistry	Rockport
Mathews, Ruth E.	English	Lexington
Mathis, Buena C.	Mathematics	Lexington
Maupin, Henry Arlie		ntington, W. Va.
May, Anna Elizabeth	Education	
Maynard, Fred	Education	Lexington
Medley, Richard Nicholas	Commerce	Riggs Owensboro
Meece, Leonard E.	Education	
Mercer, Mrs. Anne M.	Mathematics	Somerset
Mercer, Forrest	Zoology	Lexington
Meredith, Henrietta W.	Education	Lexington
Meredith, Miles	Animal Industry	Tompkinsville
Meuth, Beulah M.	Home Economics	Lexington
Michael, Ann		Henderson
Middletown, Andrew J.	Botany	Lexington
Miles, Virginia K.	Zoology	Harlan
Miley, Elisabeth	Ancient Languages	
Miller, Allen P.	Home Economics	Lynchburg, Va.
Miller, E. M.	Education	Sacramento
Miller, Frank	Education	Beverly
Miller, Grace Hildreth	Education	Clintonville
Mills, Milburn V.	Education	Lexington
Minihan, Martha E.	Political Science	Lexington
Mitchell, Gertrude	Education	Lexington
Witchell Taber 24	Education	Versailles
Mitchell, John Stapp	Education	Lexington
Moberly, Jesse	Education	Richmond
Monson, Mrs. Saida B.	Education	Cynthiana
Moody, Tommie	History	Campbellsville
Moon, I. D.	Education	Wilmore
Moore, A. B.	Education	Paducah
Moore, Elvis Lee	Education	Kevil
Moore, James Reardon	Physics	Bardstown
Moore, Joyce F.	Education	Paducah
Moore, Paul K.	Education	Batavia, Ohio
		Data Ta, OHIO

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Parker,

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Peak, E

Pearson

Peele, H

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Phillips,

Picklesia Pigg, Mi

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Praither

Prewitt,

Price, O

Price, Re

Pride, Jo

Pritchett

Proctor,

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Name	Major	Address
Moore, W. J.	Education	Richmond
Moore, Webb Leonidas	History	San Marcos, Texas
Morrell, Charles Eugene	Chemistry	Stanford
Morris, Leon Morrell	Education	Hickory
Morris, Mary Elizabeth	English	Covington
Moss, Anna Brittain	Education	Stanford
Moss, Mary Bradley	Education	Lexington
Mount, Rita	Art	Lexington
Mullikin, O. L.	Political Science	e Millersburg
Munich, Idah	Education	Lexington
Murphree, John Donald	English	Lexington
Murphy, E. Raymond	Economics	Stamping Ground
Murray, Roscoe L.	Education	Upton
Nankivel, David William	Zoology	Wilmore
Nankivell, James Edward	Education	Columbia
Nave, Ethel Downing	Bacteriology	Lexington
Neal, Martha Maye	English	Mt. Olivet
Neblett, Patrick Henry	Education	Jackson Jackson
Nesbitt, Thomas Wilson	Zoology	Berea
Newbolt, William E.	Economics	Berea
Newcombe, Mrs. Dorothy	Home Econ.	Wadesboro, N. C.
Newhoff, Theresa C.	Education	Versailles
Nichols, Guy G.	Education	Barbourville
Nickell, Clarence	Education	Nicholasville
Nicklies, Marguerite E.	English	Louisville
Nixon, Robert Grant	Education	Owenton
Noe, Milford White	Education	Lexington
Norman, Mary Louise	Education	Lexington
Northcutt, Carl	Education	Lexington
Northcutt, Shelby	Psychology	Lexington
Northington, Lloyd A.	Education	Barlow
Norton, Egbert F.	Education	Broadhead
Oates, Ervye L.	Mathematics	Spottsville
Ogden, Frank Johnson	Education	Winchester
Ohne, Ida Margaret	English	Ghent
Oser, Fred	Commerce	Harrisburg, Penn.
Owen, Elizabeth	Ancient Languag	
Owen, Naomi Woodson	English	London
Owens, William H.	Physics	Danville
Ownbey, James E.	Animal Industry	Lexington
Pack, Kermit Allen	Economics	South Portsmouth
Palmeter, David Batson	Mathematics	Polsgrove
Palmeter, Mary Annie	English	Polsgrove
Palmore, Mabel Aleene	Art	Glasgow
Park, Mercy Wilson	History	Paris
Parker, Herbert F.	Geology	Lexington
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Name	Major	Address
Parker, J. Ed., Jr.	Animal Industry	Lexington
Parman, Oscar C.	Education	London
Parrish, Anna Laura	Education	Lexington
Parrish, Gladys	History	Richmond
Parrish, Sarah Katherine	Education	Lexington
Partington, J. Edwin	Education	Greendale
Pates, Jeanette Winston	Education	Lexington
Patrick, Olney M.	Education	Salyersville
Payne, Clarice True	History	Eubank
Payne, James Andrew	Education	Cynthiana
Payne, Martha	Education	Lexington
Payne, Patrick M.	Education	Hazard
Payton, Louis S.	Engineering	Lynch
Peak, Bart N.	Political Science	Lexington
Pearson, William Elkin	Economics	Waco
Peele, Emily Frances	English	Nicholasville
Pence, Sallie E.	Mathematics	Lexington
Pennington, Henry M.	Anatomy & Phys	siology London
Pennington, Robert E.	Anatomy & Phys	
Perry, Bernard I.	Education	Frankfort
Perry, George Earl	Education	Lexington
Peyton, Warren	Education	Beaver Dam
Pfanstiel, Everett E.	Education	Carlisle
Phelps, Katherine H.	Education	Cloverport
Phillips, Stanley	History	Narrows
Picklesimer, James B.	Education	Ashland
Pigg, Minnie Eleanor	Education	London
Plummer, Leonard Niel	Political Science	Lexington
Poage, Leila W.	Sociology	Brooksville
Pogue, Forrest C., Jr.	History	Marion
Poindexter, Ann Frances	Psychology	Georgetown
Polk, Henry T.	Chemistry	Lexington
Pollard, Mary Elizabeth	English	Worthville
Porter, Mollie Haynes	Mathematics	Falls of Rough
Potter, M. E.	Education	Lexington
Poundstone, Albert B.	Economics	Lexington
Powell, Anna	Education	Lexington
Powell, James L.	History	Madisonville
Praither, Mrs. Anne S.	English	Lexington
Prewitt, John W.	Education	Williamsburg, O.
Price, Orville K.	Education	Richmond
Price, Robert E.	Animal Industry	Bremen
Pride, Joy Elizabeth	Education	Lexington
Pritchette, Graydon M.	History	Dawson Springs
Proctor, Eula	English	Georgetown
Pryor, Neale B.	Chemistry	Farmington

Nai Rogers Root, I Rose, 1 Rosent Ross, 1 Rowlar Rowlar Roy, W Royse, Rudolp Russell Russell Ruther Sagesei Salin, 1 Salyer, Sammo Sanders Schoole Schoole Schoon Scott, C Scott, E Scott, J Scott, 7 Scribne Scrugha Senff, E Settle, Sewell, Sharon, Sharp,

Sharp, V

Shearer, Shearer, Shehan,

Shelton, Shelton, Sherwoo

Shields,

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Shively, Shouse,

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Name	Major	Address
Pugh, Travis B., Jr.	Zoology	Paducah
Purdy, Martha P.	English	Millersburg
Purdy, Ralph D.	History	Wilmore
Purnell, Mary Agnes	English	Paris
Puterbaugh, Allen S.	Education	Leitchfield
Qualls, Daniel Webster	Education	Olive Hill
Racke, Elsie Roberta	English	Fort Thomas
Ralston, Mrs. Florence B.	History	Lexington
Ramsey, Bertrand P.	Physics	Durham, N. C.
Rankins, Dick	Education	Repton
Rasdall, Mackie	Political Science	Smith Grove
Ratliff, Mrs. F. J.	Psychology	Winchester
Rawlins, Ada Belle	English	Georgetown
Ray, Will B.	Education	Bowling Green
Ream, Elmus L.	Education Mt.	Lake Park, Md.
Reed, John Squires	Education	Carlisle
Reed, Ruth Bullock	English	Lexington
Regenstein, Elizabeth	English	Ft. Thomas
Renick, Oberia O'Hara	Education	Lexington
Reynolds, Coleman	Education	Finchville
Reynolds, Robert S.	Farm Economics	Tyner
Rice, Lawrence Kelly	Education	Jackson
Richards, Mrs. Mary S.	Education	Columbia
Richards, R. R.	Commerce	Richmond
Richardson, Verna Irene	English	Richmond
Richmond, Elbert W.	Education	Owensboro
Richmond, Harry Enfield	Education	Cynthiana
Ricketts, Frances Heflin	Education	Lexington
Ridgway, John Milton	Education	Lexington
Rigdon, William Irving	Commerce	Lexington
Riley, Edgar Carlisle	Education	Lexington
Riney, Carrie S.	Political Science	Elizabethtown
Ritter, Harold Gold	Commerce	Louisville
Roberts, Amster Dudley	Education	Berea
Roberts, Augusta Winn	Political Science	Decatur, Ga.
Roberts, G. Gilbert	Education	Berea
Roberts, Martin L.	Education	Spottsville
Roberts, Roland	Education	Wilmore
Robertson, Mary Elizabeth	Education	Waddy
Robinson, Frances	Education	Newport
Robinson, Leonard H.	Education	Ewing
Robinson, Lucy Erdwina	Sociology	Owensboro
Roe, James Alvin	History	Sunrise
Roedel, Mrs. Maurine C.	Home Economics	Mayslick
Rogers, Mrs. Amelia V.	Education	Lexington
Rogers, Jack M.	Commerce	Lexington
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Name	Major	Address
Rogers, Katherine E.	Education	Lexington
Root, Lester Clinton	Education	Corbin
Rose, Edith Belle	English	Lexington
Rosenberg, Lucille	Education	Lexington
Ross, Pemberton, J., Jr.	Political Science	Anchorage
Rowland, Clarice	English	Booneville
Rowland, James, Jr.	Education	Lexington
Roy, Wallace R.	Chemistry	Lexington
Royse, Edgar	Animal Industry	Roy
Rudolph, Liston Lloyd	Education	Little Cypress
Russell, Clem W.	Education	Bowling Green
Russell, William Fulton	Education	Bloomfield
Rutherford, Eliza Boyd	Home Economics	Lynchburg, Va.
Sageser, Ethel C.	English	Wilmore
Salin, Harriet B.	English	Louisville
Salyer, Amanda Patrick	History	Owingsville
Sammons, Mildred Coffman	Education	Madisonville
Sanders, Wallace Wolfred	Engineering	Louisville
Schooler, Cora L.	Romance Language	
Schooler, Ina Lucille	Ancient Languages	
Schoonmaker, Anna Dell	English	Lexington
Scott, Charles W.	Commerce	Winchester
Scott, Elizabeth F.	Ancient Languages	
Scott, Jess Arnold	Education	Lexington
Scott, Thomas P.	Education	Winchester
Scribner, Albert F.	Education Value	araiso, Indiana
Scrugham, Nancy Brown	Education	Lexington
Senff, Earl King	Education	Mt. Sterling
Settle, Margery L.	Education	Calhoun
Sewell, George P., Jr.	Engineering	Middlesboro
Sharon, Robert E.	Education	Falmouth
Sharp, Herman L.	Education	Corbin
Sharp, Virginia B.	Education	Sharpsburg
Shearer, Bailey W.	Education	Lexington
Shearer, Gladys D.	Education	Lexington
Shehan, Savilla Lucile	English	Louisville
Shelton, Mrs. Mary B.	Political Science	Versailles
Shelton, William A.	Education	Versailles
Sherwood, Thomas Cecil	Zoology	Lexington
Shields, Mrs. Carrie C.	Education	Versailles
Shields, Dora	Education	Bloomfield
Shipman, Martha Virginia	History	Lexington
Shively, Bernie A.	Physical Education	Lexington
Shouse, Claude F.	English	Eubank
Shropshire, James S.	Economics	Lexington
Shultz, Leslie G.	Mathematics	Vine Grove
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Name	Major Address
Shutt, Charles Noble	Education Berea
Simpson, Capitola	Education Owenton
Skidmore, Hugh P.	Education Campbellsburg
Skinner, Jane Oliver	Home Economics Lexington
Skinner, Onnie Gray	English Jackson, Tennessee
Skinner, Thomas W.	Education Nicholasville
Smith, Basil O.	Agronomy Dawson Springs
Smith, Mrs. Dorothy B.	Home Economics Jenkins
Smith, Edna Lillian	Bacteriology Lexington
Smith, Eva	Education Frankfort
Smith, Frances B.	English Vicco
Smith, Francys	Commerce Lexington
Smith, Jeff Frank	Education Hindman
Smith, John Willis	Education Hardinsburg
Smith, Mrs. John W.	Education Hardinsburg
Smith, Laura Gibson	Education Lexington
Smith, Lorin M.	History North Canton, Ohio
Smith, Mabel Frances	History Brandenburg
Smith, Marguerite	Political Science Lexington
Smith, Ray Emerson	English Crestwood
Smith, Robert L.	Education Jenkins
Smith, Roy G.	Education Ashland
Smith, Vivian Mary	Political Sci. Williamson, W. Va.
Smith, Willis Albert	Education Vicco
Smoot, Ellen M.	History Owenton
Snow, Clarine Strange	Psychology Danville
Soward, Mary Andrews	English Maysville
Sowell, Dan Franklin	Animal Industry Camden, S. C.
Sparkman, J. Matt	Education Benton
Spears, Louise	English Winchester
Spillman, Claude Omar	Education Stanford
Sprague, John S.	Anatomy & Physiology Lexington
Stacey, General	English Ary
Stagner, Elizabeth P.	English Auburn
Stallsmith, Harold F.	Education Covington
Stamatov, George	Engineering New York, N. Y.
Stanley, Mrs. Helen A.	Education Lexington
Stark, Ben	English New York, New York
Stark, Helen Knopf	English New York, New York
Stephens, Linnie A.	Education Georgetown
Stephens, May Sweeney	Education Williamsburg
Stephenson, Charles M.	Economics Vidalia, Georgia
Stewart, Charles Thomas	English Lexington
Stewart, Elizabeth Bird	Sociology Lexington
Stewart, Jesse J.	Economics Bowling Green
Stewart, Robert Burgess	Political Science Denton
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Name	Major	Address
Stofer, Cornelia	Education	Lexington
Stone, Talton K.	History	Lexington
Story, Ruth C.		St. Petersburg, Fla.
Stranahan, Leonard Adams	English	Lexington
Strother, Francis M.	History	Clintonville
Strother, Jeremiah Park	Education	Richmond
Strutz, Alice E.	Political Sci.	Jamestown, N. D.
Stucker, Margaret Eleanor	English	Louisville
Sturgill, Virgil Leon	English	Ashland
Sugg, Willis H.	Education	Madisonville
Sullivan, Harris M.	Physics	Lexington
Sullivan, Lawrence C.	Education	Russell Springs
Sullivan, Mrs. L. C.	Education	Russell Springs
Summer, Ennis Homer	History	Dunmor
Summers, George Perry	Marketing	Glendale
Summers, Mrs. Hazel H.	English	Madisonville
Sweeney, James Harvey	Education	Lexington
Sweeney, Winifred	Education	Lexington
Talbert, Nancy E.	English	Carlisle
Tanner, Hugh Alexander	Geology	Winchester
Tarter, Add	Education	Russell Springs
Taylor, Mrs. Acsa Hart	Education	Benham
Taylor, Armor P.	Zoology	Cold Spring
Taylor, Eva	English	Somerset
Taylor, John M.	Education	Benham
Taylor, Truman	Education	Livia
Taylor, Willie Mae	Romance Langua	ges Richmond
Terrell, Ethel Edna	English	Berea
Theisen, Norma E.	Education	Louisville
Theobold, Martha V.	Education	Grayson
Thomas, Ellen Beall	Education	Georgetown
Thomas, Eunice L.	Ancient Language	s Wilmore
Thompson, Mrs. C. M., Jr. Thompson, Forest S.	English	Barbourville
Thompson, Mrs. Forest S.	Education	Myers
Thompson, Lewis M.	English	Myers
Thompson, Nancy E.	Education	Wilmore
Thompson, Virginia Lee	Education	Danville
Thorn, Sarah Templeton	Education	Lexington
Thornberry, Richard K.	Chemistry	Lexington
Threlkeld, G. Ernest	Engineering	Newport
Thurmond, W. C.	Education	Madisonville
Ilson Howard Gill	Education	Blackford
Tilson, Howard Gilbert	Education	Adamsville, Ala.
Tolman, Helen Louise	English	Georgetown
Tolman, Mrs. Lorene R.	Sociology	Georgetown
Tolman, William Allen	Economics	Georgetown

Name	Major Address
Toth, Louis Andrew	Anatomy & Phys. South Bend, Ind.
Towery, Beverly	English Providence
Towery, Joe C.	Education Owensboro
Townsend, A. L.	Education Cadiz
Trautman, Ray Love	Geology Dayton
Traylor, Louis Bertram	Education Mountain Home, Ark,
Traylor, Orba Forest	Economics Providence
Trisler, Marjorie E.	Education Paris
Troxler, Amy Rose	Education Louisville
Truitt, J. P.	Marketing Crofton
Tsu, Kwoh-chi	Education Chinkiang, China
Turner, Virgil O.	Political Science Langley
Turrisi, Frank C.	Romance Lang. Westerly, R. I.
Tyndall, Elsa Mae	Romance Languages Lexington
Tyree, Ralph B.	Political Science Irvine
Underwood, John T., Jr.	Education Parksville
Utterback, Sarah A.	Education Lexington
Vallandingham, John T.	Mathematics Williamsburg
Vandenbosch, Mary Belle	History Lexington
Van Winkle, Eleanor B.	History Lakewood, Ohio
Van Winkle, Walter	Zoology Winchester
Vanzant, Annie Pearl	History Edmonton
Vanzant, Sallie J.	Mathematics Edmonton
Vaughn, Morris B.	Education Columbia
Vickers, John L.	Marketing Rumsey
Vincent, Clyde Earl	Education Graham
Wade, Gertrude E.	Education Coyle, Okla.
Waldron, Clarence L.	History Clay City
Walker, Edward A.	Education Cornishville
Walker, Katherine K.	Ancient Languages Lexington
Walker, Morton	English Hartford
Walker, Samuel	Education Richmond
Wallace, Susan D.	English Lexington
Warner, Hattie C.	History Nicholasville
Warren, Mrs. Guy	Home Economics Boaz
Warren, Mrs. Harriet L.	Home Economics Lexington
Warren, Mary Paulina	Education Lexington
Warren, Noah Julian	Psychology Millersburg
Warren, Will A.	Education Sedalia
Waters, Thomas Bruce	Philosophy St. Paul
Watkins, Alice E.	Education Louisville
Watson, Willie Mae	Education Lexington
Watters, Marden F.	Bacteriology Georgetown
Watts, Mrs. Cleone M.	Education Nicholasville
Weed, Cynthia Grace	Education Cleveland, Ohio
Weir, Harry Clarke	Education Bowling Green
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Welk, James R. Wells, Anita Henrietta Political Science Stanton Wells, Anita Henrietta Political Science Stanton Wells, Susan Elizabeth Education Wells, Susan Elizabeth Education Wesley, Emory Jones Wesley, Emory Jones Wesley, William M. Wesley, Emory Jones Wesley, Emory Jones Wesley, Emory Jones Education Wesley, Emory Jones Wesley, Emory Jones Education Wesley, Emory Jones Wesley, Interes Wesley	Welch, Ernest Allen	4명 (1914) 2014 (1914) 12 14 전 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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Wells, Auburn J. Wells, Susan Elizabeth Education Wesley, Emory Jones Education Wesley, Emory Jones Education Wesley, William M. Education Wesley, William M. Education Westerfield, Clifford Walin, Clarence M. Walin, Clarence M. Whalin, Roy H. Wheeler, Louise White, Banker White, Broadus J. White, Broadus J. White, Madalyn R. White, Madalyn R. White, Meorge Wallace White, O. L. Williams, Bestill D. Williams, Dohn Blaine Williams, John Blaine Williams, Mrs. Maudy H. Williams, Mrs. Maudy H. Williams, Nicholas W. Williams, Thomas O. Wilson, Albert Wilson, Jessie Louise Wilson, Jessie Louise Wilson, Mary Elizabeth Wilson, William Clark Winder, Walter P. Woolum, Letcher E. Woolsy Hatory Waltering California Covinth History California Califor	Wells, Anita Henrietta		
Wells, Susan Elizabeth Wert, James V. Education Covington Wesley, Emory Jones Wesley, Emory Jones Wesley, William M. Education Lexington Wesley, William M. Education Henderson West, Beulah Ancient Languages West, Charles Byrd Education Bowling Green Walin, Clarence M. Education Bowling Green Whalin, Clarence M. Education Bowling Green Whalin, Clarence M. Education Hickman Whalin, Roy H. Education Lexington While, Boyler, Course Education Lexington White, Broadus J. Agronomy Hardyville White, Joseph J. History California White, Wadalyn R. Chemistry Louisville White, O. L. Education Georgetown Wiley, Robert F. Bacteriology Halls, Tenn. Williams, John Blaine Education Education Education Williams, Nicholas W. English Winchester Williams, Nicholas W. English Winchester Williams, Russell W. Education Richmond Wilson, Ella Bond Education Lexington Wilson, Genevieve L. Mathematics Lexington Wilson, William Clark Willon, Letter B. Woolum, Letcher E. Wooley Letter P. Woolum, Letcher E. Weducation Lexington Washender Washender Ancient Languages Paint Lick Reducation Bowling Green Bowling Green Bowling Green Bowling Green Bowling Green Bowling Green Honderson Henderson Henderso	Wells, Auburn J.		
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Wesley, William M. West, Beulah West, Beulah West, Charles Byrd Westerfield, Clifford Walin, Clarence M. Walin, Clarence M. Walin, E. B. Walin, Roy H. Whalin, Mrs. Roy H. Wheeler, Louise White, Broadus J. White, Broadus J. White, Broadus J. White, Waliny, O. L. White, Madalyn R. White, Woolm, Education White, Brance White, Joseph J. White, Woolm, Lexington White, Madalyn R. White, Madalyn R. White, Woolm, Lexington White, Sory H. White, Woolm, Lexington White, Madalyn R. White, Woolm, Lexington White, Madalyn R. White, Woolm, Lexington White, Woolm, Lexington White, Madalyn R. White, Woolm, Lexington White, Madalyn R. White, Woolm, Lexington White, Madalyn R. White, Woolm, Lexington White, Woolm, Lexington White, Woolm, Lexington White, Woolm, Lexington Williams, Collie James Williams, John Blaine Williams, Mrs. Maudy H. Williams, Nicholas W. Williams, Clile James Agronomy Williams, Russell W. Williams, Agronomy Williams, Russell W. Williams, Jenn Wilson, Albert Education Wilson, Genevieve L. Wilson, Mary Elizabeth Wilson, Wary Elizabeth Wilson, Wary Isabelle Woolm, Lester P. Wacation Wilson, Alexandria Williams, Lester P. Woolm, Lester P. Wool	Wesley, Emory Jones		
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Walin, Clarence M. Walin, E. B. Walin, E. B. Education Education Education Corinth Hickman Hexington Education Lexington Halls, Tenn.			
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Whalin, Roy H. Whalin, Mrs. Roy H. Whalin, Mrs. Roy H. Wheler, Louise White, Banker White, Broadus J. White, Boseph J. White, Madalyn R. White, Madalyn R. White, George Wallace White, Frances White, Frances White, Frances Wiley, Frances Wiley, Robert F. Williams, Letild D. Williams, John Blaine Williams, Nicholas W. Williams, Ollie James Williams, Thomas O. Williams, Thomas O. Wilson, Genevieve L. Wilson, Genevieve L. Wilson, Wary Elizabeth Wison, William Clark Wind, Mary Sabelle Woold, Mary Isabelle Woold, Mary Isabelle Woold, Mary Sabelle Woolle, Letard P. Wistory California Lexington Lexington Lexington Lexington Lexington Halls, Tenn. Beducation Georgetown Halls, Tenn. Hexington Halls, Tenn. Halls, Tenn. Hexington Hexin	Whalin, E. B.		
Whalin, Mrs. Roy H. Ancient Languages Education White, Banker White, Broadus J. White, Joseph J. White, Madalyn R. Whitlow, George Wallace Education Wieman, Blanche A. Education Wiley, Frances Education Wiley, Frances Education Wiley, Robert F. Bacteriology Halls, Tenn. Williams, Estill D. Education Williams, John Blaine Education Education Williams, Mrs. Maudy H. Education Education Education Ewing Williams, Ollie James Agronomy Dale Williams, Ollie James Agronomy Dale Williams, Russell W. Education Williams, Russell W. Education Williams, Russell W. Education Williams, Albert Education Wilson, Albert Education Education Education Education Alexandria Wilson, Genevieve L. Mathematics Lexington Wilson, Jessie Louise Education Wilson, William Clark Marketing Lexington Wason, William Clark Marketing Lexington Wason, William Clark Marketing Lexington Wason, Willon, Letcher E. Woosley Lector P. Wooley Lector P. Wilson, Letcher E. Woosley Lector P. Wilson, Letcher E. Education Alexandria	Whalin, Roy H.		
Wheeler, Louise White, Banker Romance Languages White, Broadus J. White, Joseph J. White, Madalyn R. Whitle, Madalyn R. Whitle, George Wallace Whille, George Wallace While, George Wallace Whille, George Wallace Whille, George Wallace Whille, George Wallace While, Marketing Wallace			
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