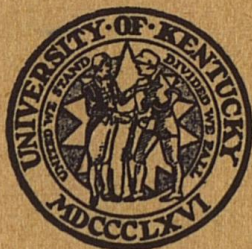


Bulletin of the

UNIVERSITY OF KENTUCKY



SUMMER QUARTER
1944

First Term: June 12 to July 19

Second Term: July 20 to August 26

Published monthly, January to September inclusive, by the University of Kentucky, Lexington. Entered as Second-Class Matter at the Post Office, Lexington, Ky., under the Act of July 16, 1894.

Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized June 30, 1920.

Vol. 36

MARCH

No. 3

UNIVERSITY SCHOOL

Elementary—June 12 to July 22

High School—June 12 to July 22

BULLETIN
OF THE
University of Kentucky



SUMMER QUARTER, 1944

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SUMMER QUARTER CALENDAR

Monday	June 12	Registration for first term.
Tuesday	June 13	Classes begin.
Monday	June 19	Last date upon which a student may register for the first term or for the complete quarter.
Friday	June 23	Last date upon which a course may be dropped without a grade.
Friday	June 23	Period for filing applications for degrees.
Saturday	July 1	Last date upon which a student may withdraw and receive a refund on fees for the first term.
Tuesday	July 4	Holiday.
Wednesday	July 19	First term ends.
Thursday	July 20	Registration for the second term.
Friday	July 21	Classes begin.
Monday	July 24	Last date upon which a student may register for the second term.
Thursday	July 27	Last date for filing applications for degrees.
Tuesday	Aug. 1	Last date upon which a course may be dropped without a grade.
Wednesday	Aug. 9	Last date upon which a student may withdraw and receive a refund on fees for the second term.
Saturday	Aug. 26	Summer quarter ends.

Note: No student may enroll in a short course of three weeks or less later than the fourth meeting of the course.

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Assistant Professor of Agricultural Engineering

GENERAL INFORMATION

THE SUMMER QUARTER FOR 1944

The Bulletin of the Summer Quarter for 1944 differs from those that have preceded it in that it does not contain a schedule of classes. This is owing to the fact that the bulletin had to be prepared far in advance of the opening of the quarter and at a time when it was not possible to anticipate what the enrollment and what the needs of those attending would be. In the place of the usual schedule of classes, therefore, there is included a list of the courses that are likely to be offered, with course descriptions and other information not heretofore published in the bulletin.

In selecting the courses to be offered, the University has attempted to make the program as comprehensive as possible, in the hope of satisfying the needs of those who may be in attendance and at the same time meeting the demands of the nation's war effort. Because the University Faculty may be called upon to continue through the next summer the instruction of soldiers in the Army Specialized Training Program, it is impossible to make definite plans at this time for the civilian program. The list of courses should, therefore, be regarded as tentative, the University reserving the right to withdraw courses for which the demand proves to be slight or negligible.

Courses will be offered for graduates and for undergraduates in the College of Arts and Sciences, the College of Agriculture and Home Economics, the College of Engineering, the College of Law, the College of Education, and the College of Commerce.

The needs of the following groups, particularly, have been kept in mind in planning the Summer Quarter for 1944.

1. The high school boy who graduates in May or June and will not be eighteen years of age until late in the summer or fall. Such a boy may easily complete one and possibly two quarters of college work before entering military service. Experience has proved that every added day of study is an advantage to the student entering military service.
2. The high school girl who graduates in May or June and wishes to advance her college preparation as rapidly as possible in order that she may be of largest service to the nation in this crisis.
3. All students, women and men, who are in college and wish to accelerate their programs of study as much as possible.

4. Teachers, principals, supervisors, and superintendents who desire to further their preparation for educational work in elementary and secondary schools.
5. All persons who may desire certain courses in order to advance in their specific vocation or to fit themselves better for positions available as a result of the war.

Over and above its program of liberal education the University Summer Quarter provides numerous opportunities for person to prepare both for emergency occupations and for normal or after-the-war employment. The extent of the opportunities is indicated by the following vocational areas in which summer courses will be offered: Industrial Chemistry, Journalism, Medical Technology, Pre-Medicine, Pre-Dentistry, Pre-Nursing, Music, Library Science, Public Service, Art, Bacteriology, Geology, Psychology, Agriculture in its various phases, Pre-Forestry, Pre-Veterinary, Home Economics, Civil Engineering, Electrical Engineering, Mechanical Engineering, Metallurgical Engineering, Mining Engineering, Law, Elementary Teaching, High School Teaching, Educational Supervision and Administration, General Business, Commerce-Law, Industrial Administration, and Secretarial Work.

It should be emphasized that the University's participation in the post-induction training of Army or Navy enlisted men will not in any way interfere with the normal operation of the program for regular summer students.

ACCREDITED RELATIONS

The University of Kentucky is on the approved list of the Association of American Universities, and is a member of the Southern Association of Colleges and Secondary Schools and the Kentucky Association of Colleges and Secondary Schools. It is accredited in its respective colleges or departments by the Association of American Law Schools, the American Association of Collegiate Schools of Business, the American Association of Schools and Departments of Journalism, the American Library Association, the National Association of Schools of Music, and the Engineer's Council for Professional development.

THE ENVIRONMENT OF THE UNIVERSITY

The University of Kentucky is located in Lexington in the center of the Bluegrass, a delightful country of scenic beauty and of great historical interest.

Many of the famous horse farms, some individual establishments containing more than a thousand acres, are open to visitors throughout the year. These farms, with their broad pastures, sparkling streams, woodlands, and paved roads provide Fayette County with a system of

parks which is unique. Idle Hour, cradle of four Derby winners; Elmendorf; Walnut Hall; Calumet, home of Whirlaway; Castleton; Hamburg Place; Dixiana; Coldstream; and Faraway, home of Man o' War, are among the beautiful horse farms in Fayette County open to visitors.

Points of particular interest in Lexington, other than the nearby farms are Ashland, the home of Henry Clay; General John Hunt Morgan's home; the home of Mary Todd, wife of Lincoln; the vast tobacco warehouses; the Keeneland Race Track; the track of the Kentucky Trotting Horse Breeder's Association; the United States Veterans' Hospital; and the U. S. Public Health Service Hospital.

Within a relatively short distance from Lexington are Frankfort, the Capital City, with its many historical features; Herrington Lake; Shakertown; Fort Harrod and its adjacent Pioneer Cemetery; the Old Kentucky Home; the Palisades of the Kentucky River; and many other points of historical and scenic interest.

STUDENT UNION BUILDING

The Union Building is the center of University student activity.

The building provides a game room with pool, billiard, and ping-pong tables; a recreation room for cards and informal dancing; a music room where one may hear the works of the greatest composers; and a periodical room with fine magazines. The advantages of these various rooms may be enjoyed by the students during leisure hours.

There is a modern beauty salon and barber shop, a cafeteria serving foods of quality, an attractive soda grill, men's and women's lounges, and telegraph and telephone service; all for the convenience of the students.

PLACEMENT SERVICE

There is a constantly growing demand for the services of the graduates of the University of Kentucky. Placement services are maintained by several colleges on the campus and every attempt is made to procure for the students and for the graduates of the University the type of employment which will enable each one to achieve the best results.

In the College of Commerce is the Senior-Commerce Employment Association which is self-supporting and is headed by a permanent secretary. The Association has been very successful in placing graduates with nationally operating industrial concerns, credit investigating and reporting companies, wholesale houses, banks, insurance companies, chain store companies, governmental agencies both federal and state, and in teaching positions. These positions included secretarial work, accounting, advertising, selling, personnel, and statistical work.

The Teacher Placement Bureau of the College of Education is designed particularly to assist in the placement of superintendents, principals, and teachers. Each student in attendance at the University who desires a teaching position should register with the Placement Bureau, Room 115, Education Building. Superintendents and college administrators who desire capable teachers should write directly to the bureau for recommendations and credentials.

The College of Engineering has an enviable reputation for training its men well for successful careers in the engineering and industrial world. The demand for their services has been such that, with a few exceptions, all members of each class have been employed soon after graduation. The placement of engineering graduates is directed by the Dean of the College with the assistance of the heads of departments.

RECREATIONAL ACTIVITIES

The summer months are vacation and recreation time. Provision is made for Summer Quarter students to participate in numerous recreational activities and to learn the fundamental skills and techniques involved. The Physical Education Department is offering recreational courses for men and women students in archery, badminton, tennis, social dancing, volley ball, bowling, and intramural sports. This is an opportunity for every summer quarter student to receive expert instruction in any or all of the above mentioned activities. If you are a novice it is your chance to learn; if an expert performer, it is your chance to participate under wholesome and enjoyable circumstances.

The primary purpose of the recreational courses is to provide pleasant and profitable leisure time activity for all students and to improve their performance ability. Teachers and supervisors of physical education will find the courses valuable in organizing teaching material and methods. Recreational leaders and directors will get new ideas on promoting leisure time activities. All Summer Quarter students will find the activities healthful and enjoyable.

THE UNIVERSITY SCHOOL AND DIRECTED TEACHING

The University School will be in session during the first half of the Summer Quarter only. The term will begin Monday, June 12, and close Saturday, July 22. The University School will be open from 8:00 to 12:00, six days a week.

Students desiring to register for Directed Teaching in the University School should make application on or before June 6. Those who plan to enroll for Directed Teaching in junior or senior high school subjects should make application to Lyman Ginger, Acting Director of the University School, and those who desire to do their student teaching in the elementary school should make application

to Mrs. May K. Duncan, Head of the Department of Elementary Education. Application for these courses should be made in advance, since only a limited number of students can be accommodated. Students are urged to file their applications for these courses as early as possible, as time should be allowed the Dean's office to check the prerequisites of all applicants before registration.

Summer School students who have children have an opportunity to place them in the University School. Both the Elementary School and the High School maintain modern programs of education that should be of interest to parents attending the University of Kentucky Summer Quarter. Persons desiring to avail themselves of the opportunities of the University School should write the Director of the University School requesting reservations for their children.

The University School will provide instruction in all subjects regularly offered in the schools of Kentucky. High school pupils may make one unit of credit toward their graduation requirements. This unit of work may be done in one subject or one-half of a unit may be made in each of two different subjects.

Pupils from any of the schools of the state will be permitted to enroll in the University School for the summer term. The tuition charge for high school pupils will be \$10 for one-half unit or \$15 for one full unit in the ninth, tenth, eleventh, and twelfth grades. The tuition charge for seventh and eighth grade pupils will be \$7.50. No tuition is charged in the Elementary School for the Summer Quarter.

The operation of the University School during the first summer term offers a helpful opportunity to the following persons:

1. Pupils who wish to make an additional unit of credit. By attending Summer School it is quite possible for a pupil to earn enough units to enable him to be graduated from high school in less than four years. Many alert, ambitious pupils will appreciate this opportunity.
2. Pupils who wish to carry more satisfactorily the work of an advanced grade. Many pupils who have not failed, but who have barely passed, by attending Summer School can assure themselves of better success in the grade to which they have been promoted.
3. Pupils who wish to make up work in which they have failed during the regular school term.

LENGTH OF QUARTER

The Summer Quarter of the University of Kentucky for 1944 will be eleven and one-half weeks in length, six days a week, and will be divided into two terms, the first to begin June 12 and to close July 19, and the second to begin July 20 and to close August 26.

The Teacher Placement Bureau of the College of Education is designed particularly to assist in the placement of superintendents, principals, and teachers. Each student in attendance at the University who desires a teaching position should register with the Placement Bureau, Room 115, Education Building. Superintendents and college administrators who desire capable teachers should write directly to the bureau for recommendations and credentials.

The College of Engineering has an enviable reputation for training its men well for successful careers in the engineering and industrial world. The demand for their services has been such that, with a few exceptions, all members of each class have been employed soon after graduation. The placement of engineering graduates is directed by the Dean of the College with the assistance of the heads of departments.

RECREATIONAL ACTIVITIES

The summer months are vacation and recreation time. Provision is made for Summer Quarter students to participate in numerous recreational activities and to learn the fundamental skills and techniques involved. The Physical Education Department is offering recreational courses for men and women students in archery, badminton, tennis, social dancing, volley ball, bowling, and intramural sports. This is an opportunity for every summer quarter student to receive expert instruction in any or all of the above mentioned activities. If you are a novice it is your chance to learn; if an expert performer, it is your chance to participate under wholesome and enjoyable circumstances.

The primary purpose of the recreational courses is to provide pleasant and profitable leisure time activity for all students and to improve their performance ability. Teachers and supervisors of physical education will find the courses valuable in organizing teaching material and methods. Recreational leaders and directors will get new ideas on promoting leisure time activities. All Summer Quarter students will find the activities healthful and enjoyable.

THE UNIVERSITY SCHOOL AND DIRECTED TEACHING

The University School will be in session during the first half of the Summer Quarter only. The term will begin Monday, June 12, and close Saturday, July 22. The University School will be open from 8:00 to 12:00, six days a week.

Students desiring to register for Directed Teaching in the University School should make application on or before June 6. Those who plan to enroll for Directed Teaching in junior or senior high school subjects should make application to Lyman Ginger, Acting Director of the University School, and those who desire to do their student teaching in the elementary school should make application

to Mrs. May K. Duncan, Head of the Department of Elementary Education. Application for these courses should be made in advance, since only a limited number of students can be accommodated. Students are urged to file their applications for these courses as early as possible, as time should be allowed the Dean's office to check the prerequisites of all applicants before registration.

Summer School students who have children have an opportunity to place them in the University School. Both the Elementary School and the High School maintain modern programs of education that should be of interest to parents attending the University of Kentucky Summer Quarter. Persons desiring to avail themselves of the opportunities of the University School should write the Director of the University School requesting reservations for their children.

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Classes during the Summer Quarter will begin at 7:00 a. m. The first hour will be from 7:00 to 8:15, the second hour from 8:25 to 9:40, the third hour from 9:50 to 11:05, and the fourth hour from 11:15 to 12:30. A few courses will meet for one-hour periods.

ADMISSION

Students will be admitted to the University as their previous training warrants. They will be admitted to the freshman class, to advanced standing, as special students, as graduate students, or as auditors.

Applicants for admission should write the Registrar's Office for forms on which to submit their applications, stating at the time whether they wish forms for admission to the freshman class, to advanced standing, or to the Graduate School. Applications and transcripts of credit should be filed in advance. Students entering with advanced standing and those entering the Graduate School should present transcripts from each institution they have attended.

To the Freshman Class. Applicants who are graduates of accredited high schools will be admitted to the University on certificate, provided they have at least fifteen units of acceptable high school work. A unit represents the study of any subject for a school year of at least thirty-two weeks, with five recitation periods a week, each of at least forty-five minutes in length, or the equivalent thereof. Double periods are required in shop, drawing, typewriting, and all other courses requiring no out-of-class preparation. One unit is the minimum credit accepted in any foreign language, and one-half unit the minimum in any other subject.

While the University does not prescribe a pattern of work for admission, it is strongly recommended that at least ten of the units presented be chosen from the English studies, the social studies, mathematics, the foreign languages, and the laboratory sciences, and that within these ten units the student offer at least three units in English, one and one-half in algebra, and one in plane geometry. Should a student lack these courses as prerequisites for any of his college work, he will be required to take them in college without credit, thus delaying his graduation.

Applicants who have graduated from unaccredited high schools and those not graduated from high school may be admitted as freshmen if, in addition to presenting the fifteen acceptable units, they successfully pass the University classification examinations.

Admission to the University does not necessarily qualify a student for admission to a particular college. In every case the student must meet the admission requirements of the college in which he is to enroll.

To Advanced Standing. A student who applies for admission with advanced standing is expected to present evidence that he is in good standing in every respect in the institution last attended, and in general is required to have maintained a standing of 1.0 in all previous college work. The University does not disregard at any time or under any conditions college or university records in order to admit applicants solely on the basis of their high school records.

As a Special Student. A graduate of another university or college may enter the University as a special student. Other persons may be admitted as special students provided they are fully prepared to do the work desired and provided they are at least twenty-one years of age.

As an Auditor. By payment of the required fees any person may be admitted to a class or classes as an auditor. A student regularly enrolled in any college must apply to the Dean of the college in which he is registered in order to be an auditor. Other persons should apply to the Registrar's Office for admission. No credit can be given for a class audited, nor is the student permitted an examination for credit.

College of Arts and Sciences. Admission to this college is governed by the general admission requirements of the University outlined above.

College of Agriculture and Home Economics. Admission to this college is governed by the general admission requirements of the University outlined above.

College of Engineering. Admission to the freshman class of the College of Engineering is limited to students rated in the upper three-quarters on the University placement tests.

In addition to meeting the general requirements for admission to the University, the high school credits presented by the applicant shall include one unit in Plane Geometry, one-half unit in Solid Geometry, and one and one-half units in Algebra. If the student lacks only the half unit in Solid Geometry, he may be admitted, but this subject will be added to the requirements of the freshman year.

College of Law. An applicant for admission to the College of Law must offer 90 quarter hours (exclusive of physical education and military science) completed in residence in colleges other than Law, nine of which must be in English. A standing of 1.0 is the minimum qualitative requirement, but in other than exceptional cases an applicant will not be accepted unless he has maintained a standing of 1.3 on all previous work. While there is no prescribed pre-law curriculum, the applicant's record is evaluated in terms of its relationship to the study of law, and in terms of the requirements of the Association of American Law Schools.

College of Education. Admission to the freshman class of the College of Education is limited to students rated in the upper three-fourths on the University placement tests. In order to transfer to the College of Education from another institution or from another college of the University, a student must have a standing of 1.0 or higher. The freshman applicant must meet the general admission requirements of the University.

College of Commerce. Admission to the freshman class of the College of Commerce is limited to students rated in the upper three-fourths on the University placement tests. The freshman applicant must meet the general admission requirements of the University.

The Graduate School. Graduates of fully accredited institutions of higher learning may be admitted to the Graduate School upon evidence of graduation and an official transcript of under-graduate courses. However, such admission does not obligate the University to accept all credit granted by the undergraduate school. When full credit is not granted, the student will be required to do more than the normal amount of work to complete a graduate degree. Applications from graduates of institutions not fully accredited will be individually evaluated. However, students from such schools are encouraged to secure a bachelor's degree from a fully accredited institution before applying.

NUMBERING OF COURSES

Courses numbered 1 to 99, inclusive, may be taken for credit only by undergraduate students. Courses numbered 100 to 199, inclusive, may be taken for credit by juniors, seniors, and graduate students, provided that a course so numbered may carry graduate credit only with the approval of the student's graduate committee. Courses numbered 200 or above are open only to graduate students.

STUDENT LOAD

The normal load for the summer quarter is from 16 to 18 quarter hours, and for one term of the quarter, eight or nine hours.

FEES

For 1944 the fee for all resident students, except those enrolled in the Law School, will be \$35 for the full summer quarter, and \$23 for either term. For non-resident students the corresponding fees will be \$55 and \$28. For resident students enrolled in the College of Law, the fee for the full summer quarter will be \$38 and for either term \$25. The corresponding fees for non-resident students will be \$58 and \$30.

Part-time students will pay according to the number of quarter hours carried, except that the full-time fee will be paid in all cases when the student load for one term equals or exceeds six quarter hours.

REFUNDS

During the first week after the opening of either term of the Summer Quarter, students withdrawing from the University may receive a refund on the amount paid in fees, not to exceed 70 per cent of all fees paid. During the second week a refund of 50 per cent may be secured, and during the third week a refund of 30 per cent. In no case shall the amount refunded exceed 70 per cent and in no case will refunds be made after the first three weeks. Students enrolled for the entire Summer Quarter will receive refunds in accordance with the schedule observed during the fall, winter, and spring quarters.

LATE REGISTRATION

No student will be allowed to register for credit for the first term or the complete quarter after June 19, or for the second term after July 24.

MARKING SYSTEM

Results of work will be recorded in the Registrar's office as follows:

- A—Exceptionally high quality, valued at 3 points for each quarter hour.
- B—Good, valued at 2 points for each quarter hour.
- C—Fair, valued at 1 point for each quarter hour.
- D—Unsatisfactory, indicates a deficiency and gives no points. but gives credit for graduation if with such credit the student's standing is 1 or more.
- E—Failure, valued at no points and no credit.
- I—Incomplete.
- X—Absent from examination.
- WP—Withdrew passing.
- WF—Withdrew failing.

The standing of a student is defined as the ratio of his total number of points to his total number of credits. When a quarter's work is to be considered a standing is understood to be the ratio of the number of points gained to the number of credits scheduled.

ROOM AND BOARD

Application for a room in the women's residence halls should be made to the Director of the Residence Halls for Women, and for a

room in the men's residence halls to the Dean of Men. Each application should be accompanied by a reservation fee of five dollars. If a check is sent in payment of this fee it should be made payable to the University of Kentucky. **Refunds of this fee will be made only in case notification is given the Director of the Residence Halls for Women or the Dean of Men at least ten days before the term opens for which the reservation is made.** Upon occupancy of the room by a student, this fee will be held as a breakage deposit to be returned at the close of the term.

Women's Residence Units. For the Summer Quarter rooms in the Women's Residence Units are \$32 per person. The charge is \$16 in any residence unit for a single term, that is, either half of the Summer Quarter. Bed linens are furnished but students should bring blankets, towels, and dresser scarfs. Room assignments are made in order of application. Reservations not claimed by 11 p. m. of the first day of registration will not be held unless special arrangement has been made with Director of the Residence Halls for Women. All women, unless permission to live in town has been granted by the Dean of Women, must live in the residence halls.

Men's Residence Halls. For an indeterminate period the Army has taken over our residence halls for the use of soldiers. During this period civilian students will room in private homes in the city. The Dean of Men's office has at all times a large list of available rooms in easy reach of the University.

Meals. Meals will be served at the University cafeteria during the Summer Quarter.

Rooms and Board in Lexington. Students who have not made reservations should apply upon arrival in Lexington at the office of the Dean of Women or Dean of Men for information relative to available rooms.

University Health Service. The services of a physician and nurse will be available to the students registered in the Summer Quarter during both terms. Consultations may be held at the offices of the Department of Hygiene.

REQUIREMENTS FOR GRADUATION

Undergraduate Colleges. To be eligible for graduation from any undergraduate college of the University, a student must have completed the requirements of the curriculum as approved by the University Faculty. In addition to gaining the specified number of quarter hours, he must have an equal number of quality points—that is, a standing of 1.0.

Regardless of the length of time the student has attended the University, a minimum of forty-five of the last fifty-four quarter hours presented for the degree must be completed in residence at the University. The last eighteen quarter hours of residence work must be completed while registered in the college through which the degree is granted.

Not more than forty-eight of the quarter hours required for an undergraduate degree may be gained by extension, special examination, or both. A student may not satisfy in excess of one-half the requirements for a major by extension, special examination, or both.

The Graduate School. A student is required to satisfy the requirements for the degree for which he is a candidate as of the date on which he enters the Graduate School. In all cases, however, a minimum residence of one year (36 weeks) is required for the master's degree, and three years (108 weeks) for the doctorate. See the Catalog or Graduate Bulletin for the specific requirements for the various graduate degrees.

No transferred credits are accepted toward the master's degree. Two years of graduate work from a fully accredited institution which offers the doctor's degree may be accepted toward the Ph.D. degree.

Theses must be presented in final form to the Dean of the Graduate School not later than three weeks before the date set for the final examination. The final examination must be taken at least fifteen days before the close of the quarter.

A graduate student must maintain a standing of 2.0 and no grade below C shall be counted.

No graduate credit is given for courses taken by correspondence or class extension.

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

Application for a Degree. All students in residence during the first term who are to be candidates for degrees in August should make formal application in the office of the Registrar on Friday, June 23. All applications for degrees must be filed not later than Thursday, July 27. No applications for graduation in August will be received after this date. The student is responsible for making application for the correct degree. That is, if a student is working for the degree, Bachelor of Arts in Education, he should apply for this degree and not make application for the degree, Bachelor of Arts, granted in the College of Arts and Sciences. If, for any reason, a student does not receive the degree at the time indicated on the application, it will be necessary for him to file another application, as the University is not responsible for carrying over applications from one session to another.

COLLEGE OF ARTS AND SCIENCES

The college courses are planned to meet the needs of various classes of students. They may be listed under the following heads:

1. General cultural courses with majors and fields of concentration, leading to the degrees of A.B. and B.S.
2. Professional courses in industrial chemistry, leading to the degree of B.S. in Industrial Chemistry; in journalism, leading to the degree of A.B. in Journalism; in library science, leading to the degree of B.S. in Library Science; in music, leading to the degree of B.S. in Music; and in bacteriology, leading to the degree of B.S. in Medical Technology.
3. Professional courses in which the general requirements for the A.B. and B.S. degrees are fulfilled.
4. Pre-Professional courses meeting the requirements for admission to professional schools.
5. Combined courses, by means of which students may save a year or more in gaining both the A.B. or B.S. and a degree in Law, Medicine, or Dentistry.
6. Graduate courses leading to the master's and doctor's degrees in the Graduate School.

The Degree of Bachelor of Arts. For the degree of Bachelor of Arts the student is required to gain a total of 192 quarter hours and 192 points; that is, a standing of 1.0, subject to the following conditions.

OUTLINE OF REQUIREMENTS FOR GRADUATION

Lower Division—Freshman and Sophomore Years

General Requirements:

Freshman Orientation, first and second quarters, freshman year, 2 quarter hours.

English, 10 to 20 quarter hours (20 quarter hours required if only 3 units of entrance are presented).

General Hygiene, freshman or sophomore years, 2 quarter hours.

Physical Education, freshman and sophomore years, 6 quarter hours.

Military Science (men), freshman and sophomore years, 12 quarter hours.

Group Requirements:

Foreign Languages, 4 to 28 quarter hours.

2 quarters in one language, if 3 or more units of entrance are presented; 4 quarters in one language, if only 2 units;

5 quarters in one language, or 4 quarters in one language and 2 in another, if only 1 or no unit of entrance.

A student may take after any quarter of foreign language, a departmental examination which, if passed, will fulfill this requirement.

Social Studies, at least 8 quarter hours in one department.
(Economics, History, Political Science, or Sociology)

Mathematics, Philosophy, Psychology, at least 8 quarter hours in one department.

Physical Sciences, at least 8 quarter hours in one department.
(Astronomy, Chemistry, Geology or Physics)

Biological Sciences, at least 8 quarter hours in one department.
(Bacteriology, Botany, Physiology, or Zoology)

Upper Division—Junior and Senior Years

Field of Concentration. Sixty quarter hours are to be elected subject to the approval of the student's adviser and the Dean of the College, and must be in courses not open to freshmen.

Major. At least 22 quarter hours of the required 60 in the field of concentration must be in one department, the major department, exclusive of courses open to freshmen. However, the major department may require more than the minimum 22. A minimum of 8 quarter hours is required as a prerequisite for a major in any department. A **Topical Major** is also offered, which is not confined to one department or field.

The Four Generically Related Fields Are: 1. Literature, Philosophy and the Arts. 2. Social Studies. 3. Physical Sciences. 4. Biological Sciences.

Tutorial Work and Comprehensive Examinations. Students majoring in the departments of Anatomy and Physiology, Ancient Languages, Art, Botany, Economics, Geology, German, Journalism, Mathematics and Astronomy, Music, Philosophy, Physical Education, Physics, Political Science, Romance Languages, Sociology, and Zoology will be required to schedule tutorial courses as specified by their major department and to take final comprehensive examinations covering their major work. Passing the comprehensive examinations is a prerequisite for graduation for major students in these departments.

COLLEGE OF AGRICULTURE AND HOME ECONOMICS

Agriculture

To receive the degree of Bachelor of Science in Agriculture a student must complete 210 quarter hours and 210 quality points. These hours are classified as follows:

Prescribed non-agriculture	63 hours
Prescribed agriculture	47 hours
Electives required in agriculture	46 hours
Free electives	54 hours
	<hr/>
Total	210 hours

The liberal system of electives enables a student to take a general course or to pursue some specialization in a chosen field. Options from which a choice may be made are: General agriculture, high school teaching, agricultural entomology, agronomy, animal husbandry, dairying, poultry, farm economics and rural sociology, markets and rural finance, and horticulture.

Students planning to prepare for professional work in agricultural engineering, veterinary medicine, forestry or the rural ministry may take work that will permit them to enter these schools. A two-year, non-degree course is provided for those who do not desire to complete the degree requirements. The poultry short course will be held in June and plans are being made for other short courses.

Home Economics

To receive the degree of Bachelor of Science in Home Economics a student must complete 205 quarter hours and 205 quality points. These hours are classified as follows:

Prescribed non-home economics	75 hours
Prescribed home economics	69 hours
Electives required in home economics	18 hours
Free electives	43 hours
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Total	205 hours

Through the proper choice of electives a student may take a general course or may pursue some specialization in one of the following options: General home economics; high school teaching; institution economics and dietetics; clothing, textiles and related art; and child development and family living. The Summer Quarter offers unusual opportunity for choice of electives in all of these options.

COLLEGE OF ENGINEERING

Admission. For admission to the freshman class in the College of Engineering, applicants should present one and one-half units in

Algebra, one unit in Plane Geometry, and one-half unit in Solid Geometry, other requirements being the same as specified for admission to the freshman class in general. Applicants meeting all of the general requirements, except the half unit in Solid Geometry, may be admitted to the freshman class, but will be required to remove the deficiency during the freshman year. It is desirable, but not obligatory, that applicants also have high school credit in Chemistry, Physics, and Trigonometry. Admission to the freshman class of this college is limited to students rated in the upper three-quarters on the placement tests.

Courses of Study and Degrees. The College of Engineering offers instruction leading to the following baccalaureate degrees:

- Bachelor of Science in Civil Engineering
- Bachelor of Science in Electrical Engineering
- Bachelor of Science in Mechanical Engineering
- Bachelor of Science in Metallurgical Engineering
- Bachelor of Science in Mining Engineering

The courses of study leading to these degrees are identical during the first two quarters of the freshman year. This gives the student the benefit of a period of training in fundamental subjects before he is required to choose among the different fields.

There will be a freshman class in engineering beginning work in the Summer Quarter of 1944.

COLLEGE OF LAW

The Summer Quarter in the College of Law consists of two terms of approximately six weeks each.

The Summer Quarter is a regular part of the work of the school, and the same quantity and quality of work is required as in the regular session. An effort has been made to provide a full program, not only for the beginning students, but also for those who have completed part of a law course. One-third of the year's work can be completed in a Summer Quarter so that by attending three Summer Quarters a student may complete the full three-year course in two calendar years.

The courses in the College of Law for the Summer Quarter are planned with special reference to three types of students. First, students who desire to shorten the three-year period by studying during the summer; second, public school teachers who desire to know something about the law either for their own benefit or for the purpose of advising students; third, lawyers, probate judges, and prosecuting attorneys who desire either to complete their work for a degree or to become acquainted with recent developments of the law.

The law library is one of the best in the South, consisting of over 30,000 volumes. It receives regularly approximately 100 legal periodicals.

The Order of the Coif was established in 1931. Summer school students are entitled to consideration for membership in this Order on the completion of their work.

The Law School publishes the Kentucky Law Journal four times a year. To this, summer school students are permitted to contribute by way of writing case notes.

COLLEGE OF EDUCATION

The College of Education is authorized to grant two degrees: a Bachelor of Arts in Education and a Bachelor of Science in Education.

To be admitted to the College of Education a student shall meet the following requirements: standing of at least 1.0 (average of C on all previous work) or, if an entering freshman, he must be in the upper three-quarters on the University placement tests.

For a degree in education the student is required to present a total of 192 quarter hours with a standing of 1.0.

General Requirements for Students in the Field of Secondary Education

1. Minimum General Preparation	Quarter Hours
English	16
Psychology	8
Physical Education	3
Matriculation Lecture	
Military Science (for men only)	12
2. Teaching Fields	
Two majors (36+36)	72
or	
One major, two minors (36+24+24)	84
or	
An Area of Concentration	72
3. Professional Preparation*	
Education 35	4
Education 122	5
Education 101	5
Education 105	4
Directed Teaching	9

* Physical Education, Music, and Art Majors should substitute Education 16, and Education C44 for Education 35 and Education 122. Business Education Majors should substitute Education 104 and Education 158a, b for Education 101 and Education 105.

	Quarter Hours
4. Core Curriculum	40
At least forty quarter hours must be submitted from the fields listed below. No candidate may present fewer than three nor more than four fields, nor fewer than eight quarter hours in any field; nor may any candidate select under the core curriculum any field which he uses as a major or minor.	
Fine Arts	Philosophy and Psychology
Science	Foreign Languages
Social Science	Vocational Subjects
Mathematics	Health, Physical Education and Safety

General Requirements for Students in the Field of Elementary Education

	Quarter Hours
1. English	16
a. Oral and Written Composition	
b. Survey of English Literature	
2. Science	16
a. Heredity	
b. Electives	
3. Social Sciences	36
a. History—American and Kentucky	
b. Problems of Citizenship	
c. Principles of Sociology	
d. Principles of Geography	
e. Economic Problems	
4. Fine Arts	12
a. Public School Art	
b. Elective in Art	
c. Public School Music	
5. Health and Physical Education	9
6. Psychology	8
7. Professional Preparation	45
a. Fundamentals of Elementary Education	
b. Children's Literature	
c. Teaching Arithmetic	
d. Tests and Measurements	
e. Teaching Science	
f. Teaching Reading	
g. Industrial Arts	
h. Supervised Student Teaching	
8. Elective, including Principles of Nutrition	50

COLLEGE OF COMMERCE

The degree of Bachelor of Science in Commerce is conferred upon students who meet the requirements of any one of the following curricula: General-Business, Business-Management, Industrial-Administration, Marketing and Advertising, Commerce-Law, and Secretarial. The minimum number of quarter hours required for graduation is 192, except under the Industrial-Administration Curriculum which requires 216. The scholastic standing must be at least 1.0. Unless two units in the ancient or modern foreign languages are offered for entrance, one year of language in college is required for graduation under all curricula except the Industrial-Administration. Regardless of these minimum requirements all commerce students are urged to take some foreign language.

THE GRADUATE SCHOOL

The Growth of the Graduate Program. The demand for graduate work at the University of Kentucky has grown rapidly in recent years. High school teachers, supervisors, principals and superintendents of schools, and teachers in normal schools and junior and senior colleges are seeking the education and training represented by higher degrees. To meet this demand, the several colleges of the University are providing larger programs of work for graduate students.

Residence Credit. A graduate student must carry at least six quarter hours in each term of the Summer Quarter to be entitled to full residence credit for that term.

Applicants for Graduate Degrees. Applications for degrees must be made at least four weeks before the date of commencement. These applications are made at the office of the Registrar of the University.

Requirements for the Master's Degree. A candidate for the degree of Master of Arts or Master of Science is required to complete 36 quarter hours of graduate work of which two-thirds is in a major and one-third in electives, spend a full year in residence, present an acceptable thesis, have a reading knowledge of one modern foreign language and pass a final oral examination. He must maintain a standing of 2.0.

Requirements for Professional Degrees. The professional degree of M.A. or M.S. in Education, or M.S. in Agriculture, or Home Economics, may be secured with the same requirements except that there is no language requirement and, that with the permission of the department concerned, 18 additional quarter hours and 12 additional weeks may be offered in lieu of a thesis.

General Requirements for a Master's Degree. All candidates for any master's degree must have completed the equivalent of a B.A. or B.S. degree in a fully accredited institution. Part-time residence during any quarter is computed on the basis of one week of residence for each quarter hour earned, but the amount of residence for part-time work is limited, except for graduate assistants and part-time instructors, to not more than four weeks in any one quarter. No credit for advanced degrees is allowed for correspondence or extension work and no transferred credit is accepted toward a master's degree.

General Requirements for the Doctor's Degree. The degree of Doctor of Philosophy is offered with major work in the following departments: Agricultural Economics and Rural Sociology, Chemistry, Education, Economics, English, History, Mathematics, Physics, Psychology, Political Science, and Romance Languages. Minor work may be carried in any department offering graduate courses.

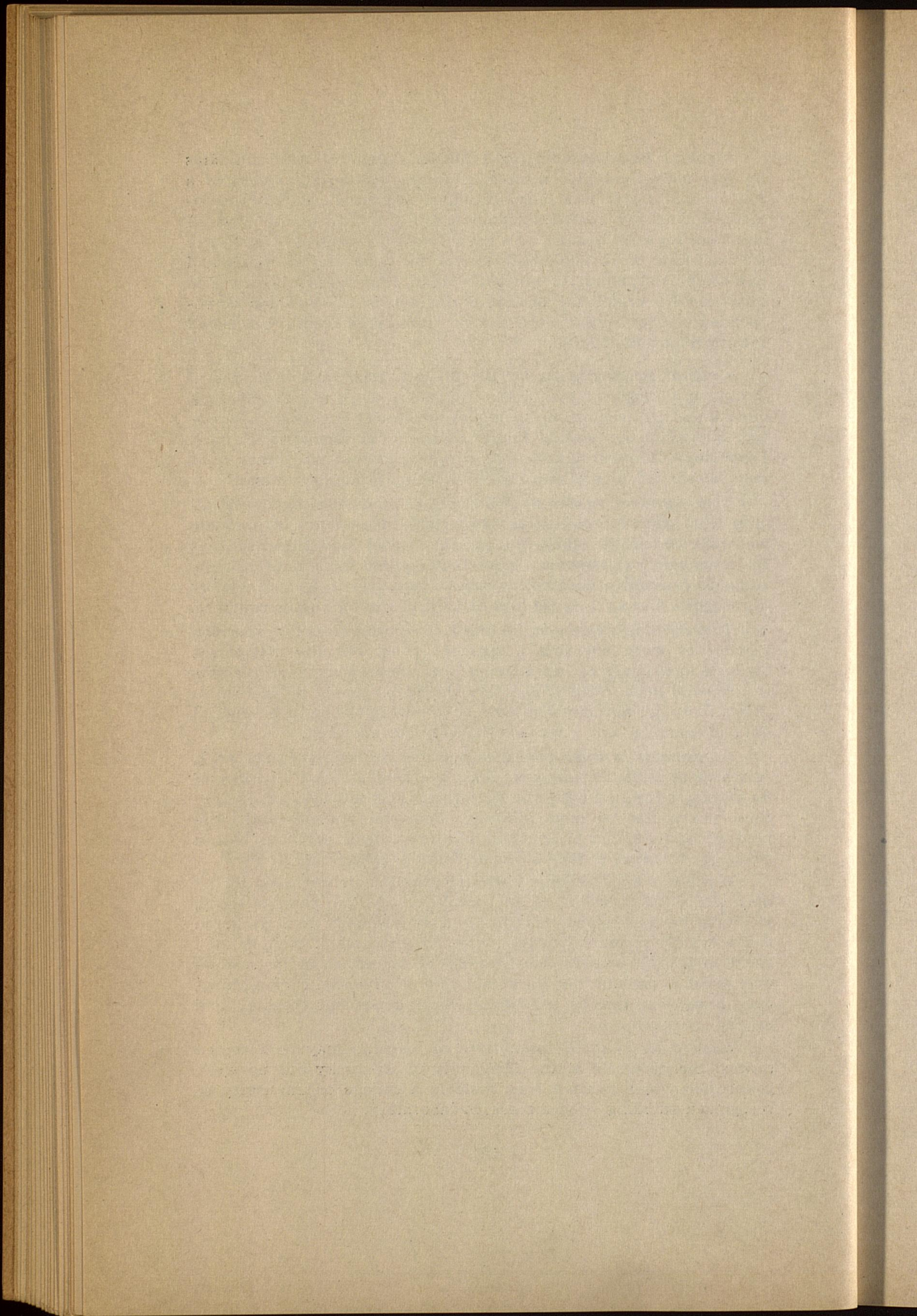
The degree of Doctor of Philosophy is conferred upon a candidate who after completing not less than three years of graduate work devoted to the study of a special field of knowledge, satisfies the language requirements, passes the required examination in the subjects, presents a satisfactory dissertation, 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 the candidate's thorough acquaintance with present knowledge in his special field of learning and a marked capacity for research.

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.



**TENTATIVE STATEMENT OF COURSES TO BE OFFERED
IN THE SUMMER QUARTER
BY COLLEGES AND DEPARTMENTS**

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ASTOR LENOX AND TILDEN FOUNDATIONS
1900

Courses numbered 1 to 99, inclusive, may be taken for credit only by undergraduate students. Courses numbered 100 to 199, inclusive, may be taken for credit by juniors, seniors, and graduate students, provided that a course so numbered may carry graduate credit only with the approval of the student's graduate committee. Courses numbered 200 or above are open only to graduate students. The first third of a year's course is indicated by the letter a; the second third by the letter b and the last third by the letter c. Seminar courses and independent or individual work courses in which more than three quarters' work may be assigned, are indicated by letters a, b, c, d, etc.

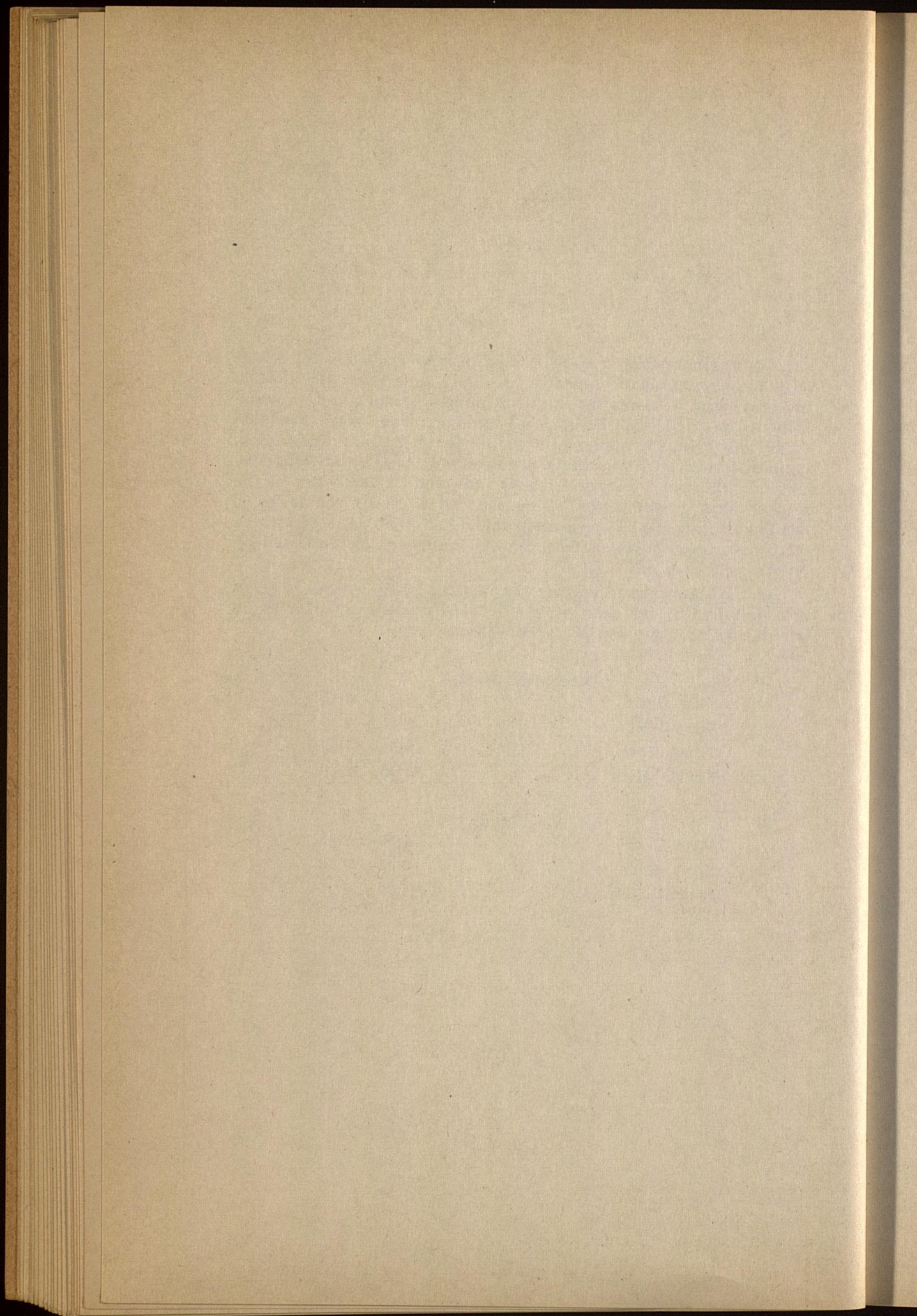
In the statement of courses the number of the course is given first, followed by the descriptive title. The credit in quarter hours is indicated by a number in parentheses, thus (4).

Recitation Hours

First Hour	7:00— 8:15
Second Hour	8:25— 9:40
Third Hour	9:50—11:05
Fourth Hour	11:15—12:30

Noon Hour

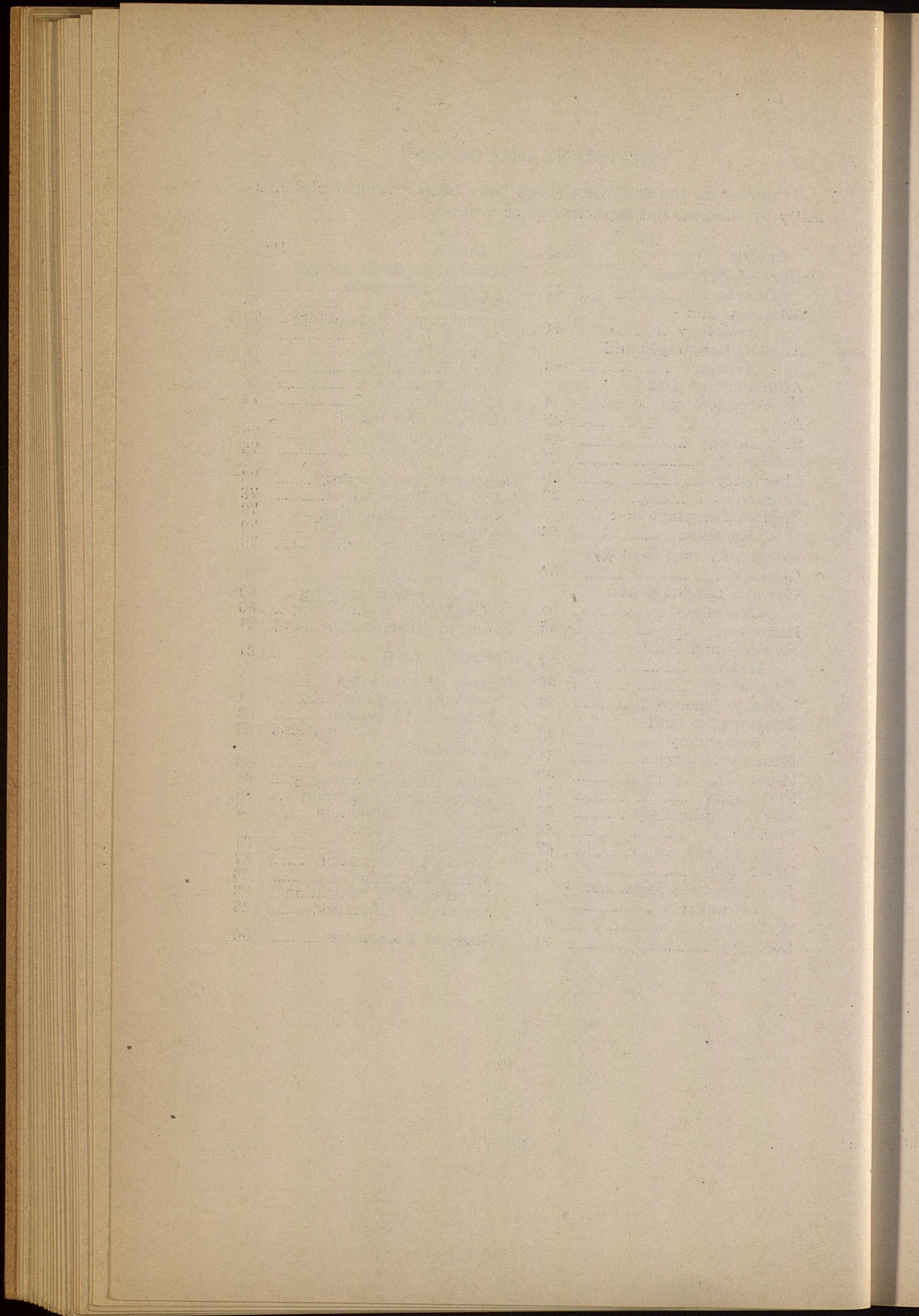
Fifth Hour	1:30— 2:45
Sixth Hour	2:55— 4:10
Seventh Hour	4:20— 5:35



STATEMENT OF COURSES

Courses on the following pages have been arranged alphabetically by colleges and departments as follows:

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COLLEGE OF ARTS AND SCIENCES

PAUL PRENTICE BOYD, M.A., Ph.D., LL.D., Dean

ANATOMY AND PHYSIOLOGY

First Term

For Graduation Requirements See Catalog

1a GENERAL PHYSIOLOGY. (4)

Allen

This is an elementary course consisting of lectures, demonstrations and recitations. It includes the study of the chemical composition and general structure of the human body; nature and properties of living protoplasm; the process of ossification or the formation and growth of bones; the skeleton; the structure and functions of the motor organs (muscles); the nervous system—structure and functions; and the special senses, namely, internal and cutaneous, smell, taste, hearing and vision. **Not open to freshmen.**

6b GENERAL ANATOMY AND PHYSIOLOGY FOR NURSES. (4)

Allen

This is a continuation of 6a (see Catalog) and will cover the following subject matter: The vascular system; the respiratory system; gastro-intestinal tract; digestion and absorption of foods; organs of excretion; heat production and the regulation of the body's temperature; and the reproduction system. Lectures, recitations, and laboratories. **Prerequisite: 6a.**

Not Open to Lower Division Students

106 INTRODUCTION TO ENDOCRINOLOGY. (4)

Allen

An introductory study of the glands of internal secretion or endocrine glands in which the general development, anatomical location and structure, and fundamental functions of the organs will be presented. The purpose of the course is to give a general knowledge that will be of value, not only to the student of Anatomy and Physiology and related subjects but also, to those of educational and sociological interest. Lectures and recitations. **Prerequisites: A & P 1a and 1b or the equivalent; Zoology 7b; Chemistry 1a and 1b; and the Instructor's consent.**

Open Only to Graduate Students

201a RESEARCH IN PHYSIOLOGY. (6)

Allen

The pursuit of an assigned problem in which the student will have the opportunity to demonstrate his or her originality. Conferences and laboratory. **Prerequisites: A & P 1a and 1b or the equivalent; Chemistry 127a, 127b, and 127c or the equivalent; Physical Chemistry desirable; Physics, one year.**

Second Term

1b GENERAL PHYSIOLOGY. (4)

Allen

The course is a continuation of 1a. The vascular system, respiration, gastro-intestinal tract, digestion and absorption of foods, organs of excretion, production and regulation of the body's heat and the organs of speech are studied in detail. Not available for credit to students who have A & P 5. Not open to freshmen.

Not Open to Lower Division Students

105 ARCHITECTURE OF THE HUMAN SKELETON. (5)

Allen

This course is designed for the student who anticipates further advanced study in Anatomy and Physiology, for students of Anthropology, for students in Art, and for those who are preparing for the study of medicine. The study begins with the development of the skeleton and joints. This is followed by the process of ossification and the histology of bones. Each bone is studied in detail; organized demonstrations are given with architecture and function being stressed. Variations in the skeleton are considered. When possible, the bone is compared with that of the lower vertebrates. The physiology of the bone, joint and muscular relations are studied in detail. Lecture, recitation, and laboratory. Prerequisite: Junior standing.

Open Only to Graduate Students

201b RESEARCH IN PHYSIOLOGY. (6)

Allen

Continuation of 201a. Conferences and laboratory. Prerequisites: A & P 1a and 1b or the equivalent; Chemistry 127a, 127b and 127c or the equivalent; Physical Chemistry desirable; Physics one year.

ANCIENT LANGUAGES AND LITERATURES

First Term

For Graduation Requirements See Catalog

Note.—No credit given when work done in high school is repeated. One year of high school language is considered the equivalent of one quarter of university work.

*C1a BEGINNING LATIN. (4)

First 35 lessons in Bennett's First Year Latin.

Jones

*C2 CAESAR AND SELECTIONS. (4)

The equivalent of three books of Caesar. Prerequisite: A. L. 1a, b.

Jones

*C3 CICERO AND SELECTIONS. (4)

The equivalent of three orations of Cicero. Prerequisite: A. L. 2.

Jones

*C4a VERGIL. (4)

Books I, II of Eneid. Prerequisite: A. L. 2 or 3.

Jones

*C5 LIVY. (4)

Book I and Selections. Prerequisite: A. L. 3 or 4.

Jones

* Open to Freshmen.

***C6a HORACE. (4)** Jones
First three books of Odes. Prerequisite: A. L. 4 or 5.

***C51a BEGINNING GREEK. (4)** Jones
First 30 lessons in Benner & Smyth's Beginning Greek.

Not Open to Lower Division Students

C151a-d INDEPENDENT WORK IN ANCIENT LANGUAGES. (4) Jones
These courses are courses in individual work. The work assigned will depend upon the needs of the student. Prerequisite: A. L. 5.

C120 SURVEY OF GREEK CIVILIZATION. (4) Jones
History, Public and Private Life, Archaeology. Offered 1943-44. Prerequisite: Junior standing.

C150a TEACHER'S COURSE IN LATIN. (4) Jones
A hasty review of Bennett's Beginner's Book, and the reading of selections from the last three books of Caesar. Discussion of the principles of teaching Latin, stressing the connection between Latin and English, the merits of the different texts, etc. Given only in summer school. Based on first year's work. Prerequisite: Junior standing.

Second Term

***C1b BEGINNING LATIN. Continuation of 1a. (4)** Jones
Lessons 36-72 in Bennett's First Year Latin.

***C2 CAESAR AND SELECTIONS. (4)** Jones
The equivalent of three books of Caesar. Prerequisite A. L. 1a, b.

***C3 CICERO AND SELECTIONS. (4)** Jones
The equivalent of three orations of Cicero. Prerequisite: A. L. 2.

***C4b VERGIL. Continuation of 4a. (4)** Jones
Books IV, VI, of Eneid. Prerequisite: A. L. 2 or 3.

***C5 LIVY. (4)** Jones
Book I and Selections. Prerequisite: A. L. 3 or 4.

***C6b HORACE. Continuation of 6a. (4)** Jones
Book four of Odes: Satires: Epistles.

***C51b BEGINNING GREEK. Continuation of 51-a. (4)** Jones
Lessons 31-60 in Benner & Smyth's Beginning Greek.

Courses Open Only to Upper Division and Graduate Students Not Open to Lower Division Students

C122a GREEK LITERATURE IN ENGLISH TRANSLATION. (4) Jones
Epic and Lyric Poetry. Given each year. Prerequisite: Junior standing.

C150b TEACHER'S COURSE IN LATIN. Continuation of 150a. (4) Jones
This course will follow closely the recommendations of the Classical League Investigating Committee. A considerable amount of easy Latin

* Open to Freshmen.

will be read, taken from several authors. Discussion of Latin exhibits and other means of arousing interest in the work. Given only in summer school. Based on second year work. Prerequisite: A. L. 2 or 150a.

C151a-d INDEPENDENT WORK IN ANCIENT LANGUAGES. (4)

These courses are courses in individual work. The work assigned will depend upon the needs of the student. Prerequisite: A. L. 5.

ANTHROPOLOGY AND ARCHAEOLOGY

First Term

For Graduation Requirements See Catalog

- *1a GENERAL ANTHROPOLOGY. (3)** Snow
An introductory course with emphasis on Physical Anthropology. Measurements of the living and skeleton, origin, development and distribution of man, races and racial mixture. Heredity and growth.

Not Open to Lower Division Students

- 105 ETHNOLOGY. (3)** Funkhouser
A lecture course on the Living Races of Man. The supposed origin and known migrations of the present ethnological groups; their relationships, geographical distribution, cultures and religion. Lectures, 3 hours.
- 125 PHYSICAL ANTHROPOLOGY. (3)** Snow
Detailed study of the origin and development of the races of man with emphasis on somatic and skeletal difference, measuring techniques, growth, race mixture and hereditary effect, development of human dentition, and osteopathology as observed in prehistoric man.

Second Term

- *1b GENERAL ANTHROPOLOGY. (3)** Snow
The archaeology and ethnology of the Old World. The arts and industries, sociology, religious beliefs and languages of the peoples of Europe, Asia and Africa.

Not Open to Lower Division Students

- 106 ETHNOLOGY OF EUROPE. (3)** Funkhouser
A study of the origins and migrations of the ethnological groups of Europe. The influence of Hamitic, Ligurian, Iberian and Pelasgian stocks of prehistoric civilizations; the effect of the migration of the Indo-Iranian Division; the contribution of the Semites to early European cultures; the contrast between the Aryans and Nordics in racial characters with particular attention given to the Q-Kelts, P-Kelts, Slavs and Anglo-Saxons. Lectures, three hours.
- 125 PHYSICAL ANTHROPOLOGY. (3)** Snow
Detailed study of the origin and development of the races of man with emphasis on somatic and skeletal difference, measuring techniques, growth, race mixture and hereditary effect, development of human dentition, and osteopathology as observed in prehistoric man.

* Open to Freshmen.

ART

First Term

For Graduation Requirements See Catalog

- *C30a INTRODUCTION TO ART. (3)** Callihan
Elementary principles, theory of color, essentials of design, forms of art. Given in illustrated lectures with assigned problems, notebooks and reports. Not open to students who have had Art 10a.
- *C30b INTRODUCTION TO ART. (3)** Callihan
The plastic arts; an introductory survey and interpretation of architecture and sculpture and design. Illustrated lectures, study of original works of art, library references, notebooks and reports.
- *C30c INTRODUCTION TO ART. (3)** Callihan
Painting and the decorative arts; a survey of masterpieces in painting and major styles in decoration. Illustrated lectures, study of original works of art, library references, notebooks and reports.
- *61a ELEMENTARY DRAWING. (4)** Rannells
Training of vision and development of skill through drawing from natural forms. Nine studio hours and weekly problems.
- *61b ELEMENTARY DRAWING. (4)** Rannells
Continuation of 61a. Analytical study of form and space. Introductory problems in composition. Nine studio hours and weekly problems. **Prerequisite: 61a.**
- 63a ADVANCED DRAWING. (4)** Rannells
Analysis of composition in black and white. Study of line and values. Twelve studio hours a week. **Prerequisite: 61b.**
- 63b ADVANCED DRAWING. (4)** Rannells
Continuation of 63a. Twelve studio hours a week.
- 65a PAINTING. (4)** Rannells
Technical instruction in oil and water color. Introduction to the study of pictorial composition; still life, landscape, figure. Twelve studio hours a week. **Prerequisite: 63b or 63a, at option of instructor.**
- 65b PAINTING. (4)** Rannells
Continuation of 65a. Twelve studio hours a week.
- 10a PUBLIC SCHOOL ART. (3)** Rannells and Callihan
A study of essentials in art; definitions, initial concepts, principles, techniques; elementary skills through practice in design, drawing, lettering. Forms of art; analysis and interpretation on an elementary level. Bibliographies and teaching materials. For students in elementary education. Lectures, six studio hours and weekly problems. Not open to students who have had Art 30a.

Not Open to Lower Division Students

- 115a-d INDEPENDENT WORK. (4)** Staff
Individual projects in painting or design; individual research in art history; studies in criticism. Each quarter's work is subject to review by the staff. Open only to advanced students upon approval of department head.

* Open to Freshmen.

Second Term

10b PUBLIC SCHOOL ART. (3)

Haines

Application of art essentials to class room activities in preparation for teaching art in the elementary grades. Units in art: design, color, drawing, lettering, etc. Units in collaboration with other studies: posters, charts, programs, etc. Exploration of materials, tools, processes. Bibliographies and teaching materials. For students in elementary education. Given in the University Training School. Lectures, six studio hours and weekly programs. **Prerequisite: 10a.**

BACTERIOLOGY

**For Graduation Requirements and for Special Information
Concerning the Curriculum in Medical Technology, Consult the
University Catalog.**

First Term

*2a ELEMENTARY MICROBIOLOGY. (6)

Weaver and Hamann

A study of the fundamental nature of bacteria and other micro-organisms, special attention being given to morphology. This course is recommended for Bacteriology majors and for those taking Bacteriology to fulfill a biological science requirement, and should be followed by 2b. No prerequisites. Lectures and recitations, three hours; laboratory, six hours a week.

*6a, b BACTERIOLOGY AND PATHOLOGY FOR NURSES.

(4)

Scherago and Dolin

A study of the characteristics and habits of micro-organisms and of their relation to medicine, surgery, and public health. The causes of disease, the nature of disease processes, the securing and preserving of specimens for the laboratory. Lecture, two hours a week; laboratory, four hours a week.

56a BACTERIOLOGY OF FOODS. (For Sophomores.)

(4)

Weaver and Hamann

Relation of micro-organisms to food production and handling; food preservation. Microbiology of fermentation products, canned foods, eggs, tomato products, meat and meat products, fish and shellfish, etc. Standard methods of bacterial analysis as used in official food and public health laboratories. Food poisoning. Lectures and recitations, two hours; laboratory, four hours a week. **Prerequisites: Bacteriology 52 or 102; or 2b and Chem. 1b.**

56b BACTERIOLOGY OF FOODS. (For Sophomores.)

(4)

Weaver and Hamann

Microbiology of milk and milk products. Standard methods of bacterial analysis as used in official food and public health laboratories. Lectures and recitations, two hours. Laboratory, four hours a week. **Prerequisites: Bacteriology 52 or 102; or 2b and Chem. 1b.**

Courses Open Only to Upper Division and Graduate Students

102 GENERAL BACTERIOLOGY. (6)

Weaver and Dolin

Observation and cultivation of bacteria and related micro-organisms; study of their morphology, classification, physiology, relation to certain

* Courses open to Freshmen.

fermentations, to food, to soil fertility and to disease. Lectures and recitations, three hours; laboratory, six hours a week. **Prerequisite:** Chemistry 1b.

103 PATHOGENIC BACTERIOLOGY. (6) Thornton

A study of human and animal pathogenic micro-organisms, especially their morphological, cultural and pathogenic properties. Lectures and recitations, three hours; laboratory, six hours a week. **Prerequisites:** Bacteriology 102 or 52; or 2b and Chemistry 1b.

104 APPLIED BACTERIOLOGY. (3) Thornton

A course in bacteriological analysis to supplement Courses 52 and 102. Laboratory six hours a week. **Prerequisites:** Bacteriology 102 or 52; or 2b and Chemistry 1b.

110a LABORATORY DIAGNOSIS. (3) Thornton

Laboratory methods employed in diagnostic and public health laboratories. Designed primarily for medical technology students. Examination of sputum and urine. Laboratory, six hours a week. **Prerequisite.** Preceded or accompanied by Bacteriology 103.

110b LABORATORY DIAGNOSIS. (3) Hamann

Continuation of 110a. Examination of stomach and intestinal contents and blood. Laboratory, six hours a week. **Prerequisite:** Same as for 110a.

111 GENERAL PATHOLOGY. (6) Scherago

The effects of disease on the organs and tissues of the human body will be studied at autopsies and by the examination of fresh and museum specimens as well as histological sections. Degenerations, infiltrations, regenerations, inflammations, disturbances of the circulation, infectious granulomata, neoplasms, etc., will be studied. Lectures and recitations three hours; laboratory six hours a week. **Prerequisites:** Anatomy and Physiology 1a-b; Zoology 7c, 101b, and 106; Bacteriology 103, and consent of head of department.

115a-f INDEPENDENT WORK. (4) Hamann

Students will be assigned special problems in laboratory work and reference reading. Laboratory, eight hours a week. **Prerequisite:** 2b.

120a, b, c HOSPITAL LABORATORY PRACTICE.

(6), (4), (5)

Scherago, Others

Students will be required to carry out, under supervision, the laboratory work in one of the hospitals in Lexington. Laboratory, eighteen, twelve, fifteen hours a week. **Prerequisites:** Bacteriology 110a, b, and c, consent of head of department.

The Following Courses Open to Graduate Students Only

206a BACTERIOLOGY OF FOODS. (4) Weaver and Hamann

Relation of micro-organisms to food production and handling; food preservation. Microbiology of fermentation products, canned foods, eggs, tomato products, meat and meat products, fish and shellfish, etc. Standard methods of bacterial analysis as used in official food and public health laboratories. Food poisoning. Lectures and recitations, two hours; laboratory, four hours a week. **Prerequisites:** Bacteriology 2b or 52; Chemistry 8b.

- 206b **BACTERIOLOGY OF FOODS.** (4) Weaver and Hamann
Microbiology of milk and milk products. Standard methods of Bacterial analysis as used in official food and public health laboratories. Lectures and recitations, two hours; laboratory, four hours a week. **Prerequisites:** Bacteriology 2b, or 52, or 102; Chemistry 8b.

Second Term

- *2b **ELEMENTARY MICROBIOLOGY.** (6) Weaver and Hamann
Continuation of course 2a. A cultural study of bacteria. Microbial physiology. A discussion of the relationship of micro-organisms to soil fertility, foods, industrial fermentations, disease, etc. Lectures and recitations, three hours; laboratory six hours a week. **Prerequisite:** Bacteriology 2a.

- 6a, b **BACTERIOLOGY AND PATHOLOGY FOR NURSES.** (4) Scherago and Dolin
A study of the characteristics and habits of micro-organisms and of their relation to medicine, surgery, and public health. The causes of disease, the nature of disease processes, the securing and preserving of specimens for the laboratory. Lecture, two hours a week; laboratory, four hours a week.

- 57a **BACTERIOLOGY OF WATER AND SEWAGE. (For Sophomores.)** (4) Weaver
Microflora of water; importance of colon-typhoid group in water; standard methods of water analysis and interpretation of results; water purification; bacteriology of sewage disposal; swimming pools, bacterial examination, purification, control, etc. Water purification plants, sewage disposal plants and swimming pools will be visited and studied. Lectures and recitations, two hours; laboratory, four hours a week. **Prerequisites:** Bacteriology 102 or 52; or 2b and Chemistry 1b.

- 57b **BACTERIOLOGY OF WATER AND SEWAGE. (For Sophomores.)** (2) Weaver
A course in the bacteriological analysis of water and sewage to supplement Course 57a. Microscopical examination of water. Tests necessary for the operation of water works and sewage treatment plants. B.O.D. test, etc. Laboratory, four hours a week. **Prerequisite:** Preceded or accompanied by Bacteriology 57a.

Courses Open Only to Upper Division and Graduate Students

- 102 **GENERAL BACTERIOLOGY.** (6) Scherago and Hamann
Observation and cultivation of bacteria and related micro-organisms; study of their morphology, classification, physiology, relation to certain fermentations, to food, to soil fertility and to disease. Lectures and recitations, three hours; laboratory, six hours a week. **Prerequisite:** Chemistry 1b.

- 104 **APPLIED BACTERIOLOGY.** (3) Dolin
A course in bacteriological analysis to supplement Courses 52 and 102. Laboratory six hours a week. **Prerequisites:** Bacteriology 102 or 52; or 2b and Chemistry 1b.

* Open to Freshmen.

110c LABORATORY DIAGNOSIS. (3) Hamann
Continuation of 110b. Laboratory diagnosis of parasitism; laboratory methods used in diagnosis of gonorrhea, typhoid fever, diphtheria, syphilis, etc. Laboratory, six hours a week. **Prerequisite: Preceded or accompanied by Bacteriology 125b.**

115a-f INDEPENDENT WORK. (4) Dolin
Students will be assigned special problems in laboratory work and reference reading. Laboratory, eight hours a week. **Prerequisite: 2b.**

120a, b, c HOSPITAL LABORATORY PRACTICE.
(6), (4), (5) Scherago, Others
Students will be required to carry out, under supervision, the laboratory work in one of the hospitals in Lexington. Laboratory, eighteen, twelve, fifteen hours a week. **Prerequisites: Bacteriology 110a, b, c; consent of head of department.**

125a IMMUNOLOGY AND SEROLOGY. (5) Scherago and Thornton
The theories and mechanism of infection and immunity; the preparation, standardization and uses of vaccines, toxins, antibodies and other biological products related to the diagnosis, prevention and treatment of specific infectious diseases; agglutination; complement fixation, etc. Lectures and recitations, two hours a week, laboratory, six hours a week. **Prerequisite: Bacteriology 103.**

125b IMMUNOLOGY AND SEROLOGY. (3) Scherago and Thornton
Continuation of 125a. Receptor analysis; serology of syphilis; hypersensitiveness. Lectures one hour a week; laboratory, four hours a week. **Prerequisite: Bacteriology 125a.**

The Following Course Open to Graduate Students Only

207 BACTERIOLOGY OF WATER AND SEWAGE.
(6) Weaver
The microflora of water; importance of the colon-typhoid group of bacteria in water; methods of water analysis and interpretation of results; special media used in isolating and identifying the colon-typhoid 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 contents, regulations concerning swimming pools. Water purification plants, sewage disposal plants and swimming pools will be visited and studied. Lectures and recitations, two hours a week; laboratory, four hours a week. **Prerequisites: Bacteriology 2b, or 52, or 102; Chemistry 8b.**

BOTANY

First Term

For Graduation Requirements See Catalog

***8a INTRODUCTION TO BOTANY. (4)** Riley
A lecture-demonstration course dealing with cell structure, plant physiology, and the nature and functions of roots, stems, and leaves. Four 1-hour class periods per week.

* Open to Freshmen.

- *8b INTRODUCTION TO BOTANY. (4)** Riley
A continuation of 8a in which a survey of the plant groups is made by a detailed study of representative species as to structure and methods in reproduction. Four 1-hour class periods per week.

Not Open to Lower Division Students

- 104 General Cytology. (4)** Riley
Structure of plant and animal cells; cell division; gametogenesis, sporogenesis, fertilization and apomixis. **Prerequisites: Botany 1b, or 8a and 8b, or Zoology 1a and 1b.**

Second Term

- *8a INTRODUCTION TO BOTANY. (4)** McInteer
A lecture-demonstration course dealing with cell structure, plant physiology, and the nature and functions of roots, stems, and leaves. Four 1-hour class periods per week.
- *8b INTRODUCTION TO BOTANY. (4)** McInteer
A continuation of 8a in which a survey of the plant groups is made by a detailed study of representative species as to structure and methods in reproduction. Four 1-hour class periods per week.
- C15 LOCAL FLORA (Systematic Botany.) (3)** McInteer
A laboratory course dealing with the identification of unknown flowers and ferns. The use of manuals and methods of making an herbarium are taken up for study. The various systems of classification are taken up in detailed study, as well as the laws of nomenclature. **Prerequisites: Botany 1a, 1b, 1c.**

CHEMISTRY

First Term

For Graduation Requirements See Catalog

- *1a GENERAL CHEMISTRY. (5)** Staff
Chemistry of the non-metallic elements, and the metals. Lecture, 4 hours; recitations, 2 hours; laboratory, 8 hours.
- *7 ORGANIC CHEMISTRY. (6)** Barkenbus
An elementary course for non-professional students. Lecture and laboratory, 16 hours. **Prerequisite: Chemistry 1b or 2b.**
- 8a QUANTITATIVE ANALYSIS. (4)** Stewart
A laboratory course accompanied by lectures and classroom exercises. Gravimetric and volumetric methods of analysis are studied in detail. Lecture, 2 hours; laboratory, 12 hours. **Prerequisite: Chemistry 4.**
- 49b CHEMISTRY FOR NURSES. (4)**
Continuation of 49a. **Prerequisite: 49a.**

* Open to Freshmen.

Either Term or the Quarter

The Following Courses Not Open to Lower Division Students

- 103a **QUALITATIVE ORGANIC ANALYSIS.** (4) Barkenbus
A systematic study of the separation and identification of organic compounds. Prerequisite: Chemistry 127c, or 20c.
- 103b **QUALITATIVE ORGANIC ANALYSIS.** (3) Barkenbus
Prerequisite: 103a.
- 106a **SYNTHETIC ORGANIC CHEMISTRY.** (4) Barkenbus
A critical comparison of preparation methods accompanied by laboratory work and reports. Elective. Offered upon request. Prerequisite: Chemistry 127c, or 20c.
- 107a **SELECTED PROBLEMS IN QUANTITATIVE ANALYSIS.** (4) Stewart
Offered upon request. Prerequisite: Chemistry 109.

Open Only to Graduate Students

- 204a **ORGANIC CHEMISTRY.** (4)
Offered upon request. Prerequisite: Chemistry 106b or 103b.
Other chemistry courses listed in the annual catalog will be offered if the demand is sufficient.

Full Quarter Courses

- *4 **QUALITATIVE ANALYSIS.** (6)
Lecture, 1 hour; laboratory, 10 hours. Prerequisite: Chemistry 1b or 2b.

The Following Courses Not Open to Lower Division Students

- 110 **INTERMEDIATE PHYSICAL CHEMISTRY.** (4) Bedford
Intermediate course. Lectures, 4 hours. Offered upon request. Prerequisite: Chemistry 131c.
- 131a **PHYSICAL CHEMISTRY.** (5) Bedford
Lectures and recitations covering the gaseous, liquid and solid states of matter; phase rule; theory of solutions. Laboratory studies in physical chemistry measurements; thermo-chemistry; chemical equilibria and kinetics; application of law of mass action to electrolytes; electro-chemistry. Lectures and recitations, 4 hours; laboratory, 2 hours.
Prerequisites: Chemistry 8c; Math. 20b; Physics 3a or concurrent.
See first term for Chem. 103a, 103b, 106a, 107a. These courses will be offered either term or the full quarter.

The Following Course Open Only to Graduate Students and Will be Offered Either Term or the Full Quarter

- 204a **ORGANIC CHEMISTRY.** (4) See First Term.
NOTE: Other chemistry courses listed in the annual catalog will be offered if the demand is sufficient.

* Open to Freshmen.

Second Term

- *1b GENERAL CHEMISTRY. (5)**
Continuation of 1a. Lecture, 4 hours; recitation, 2 hours; laboratory, 8 hours. **Prerequisite: Chemistry 1a.**
- 8b QUANTITATIVE ANALYSIS. (4)** Stewart
A continuation of 8a. Lecture, 2 hours; laboratory, 12 hours. **Prerequisite: 8a.**
- C20b ORGANIC CHEMISTRY. (3)** Barkenbus
Continuation of 7. **Prerequisite: Chemistry 7.**
- 20c ORGANIC CHEMISTRY. (5)** Barkenbus
Continuation of 20b. **Prerequisite: Chemistry 20b.**
NOTE: Chemistry C20b and 20c will meet 18½ hours weekly in lecture and laboratory.

The Following Courses Not Open to Lower Division Students

- C127b ORGANIC CHEMISTRY. (3)** Barkenbus
A continuation of 7. **Prerequisite: Chemistry 7.**
- 127c ORGANIC CHEMISTRY. (5)** Barkenbus
A continuation of 127b. **Prerequisite: Chemistry 127b.**
NOTE: Chem. C127b and 127c will meet 18½ hours weekly.
See First Term for Chemistry 103a, 103b (Qualitative Organic Analysis); 106a (Synthetic Organic Chemistry); 107a (Selected Problems in Quantitative Analysis); These courses will be offered either term or the full quarter.

The Following Course Open Only to Graduate Students and Will be Offered Either Term or the Full Quarter

- 204a ORGANIC CHEMISTRY. (4)—See First Term.**
NOTE: Other chemistry courses listed in the annual catalog will be offered if the demand is sufficient.

ECONOMICS

See College of Commerce for Courses

ENGLISH

First Term

For Graduation Requirements See Catalog

- *1a ENGLISH COMPOSITION. (5)** South
Practice in writing correct and clear English. Accuracy of expression is desired rather than proficiency in style. A textbook will be used, but the instruction will also be based upon the study of representative English masterpieces. Required of all freshmen.

* Open to Freshmen.

***37 STAGE PRODUCTIONS IN SCHOOL AND COMMUNITY. (3)**

Eagon

This course is designed to meet the particular needs of teachers and community theatre workers. It will consider the problems of staging under circumscribed conditions and will discuss minimum essentials of play production and means of constructing or supplying these needs. Individual student problems will be considered in discussing practice of staging.

3a HISTORY OF ENGLISH LITERATURE. (5)

South

This is not a chronological survey of English literature, but a study of representative authors beginning with Chaucer and extending to contemporary writers. The selections may vary from year to year. Required of English majors during the sophomore year. **Prerequisites:** English 1a, 1b.

7a ELEMENTS OF PUBLIC SPEAKING. (5)

Sutherland

This course is designed to give the student experience in effective extempore public speaking. Critical studies of contemporary educational, political, social, and economic institutions, and problems are read to create a fund of knowledge as a basis for argument and discussion. **Prerequisites:** English 1a, 1b.

30 BUSINESS ENGLISH. (3)

Primarily for sophomores in the College of Commerce; admission of others by consent of the instructor. A study of forms of business correspondence and practice in writing such. **Prerequisites:** English 1a, 1b.

Not Open to Lower Division Requirements

127a LITERATURE OF THE BIBLE. (5)

Farquhar

A literary study of the Bible by books. The purpose of the course is to develop an appreciation of literature generally because of the demand that literature identify with the highest thought and feeling. **Prerequisites:** English 1a, 1b; 3a, 3b.

157 TEACHING OF SPEECH AND ORAL ENGLISH (5)

Eagon

Discussions dealing with the practical problems in teaching. Intended for teachers and prospective teachers.

The Following Courses Open Only to Graduate Students

210 SEMINAR. (5)

Brady

Bibliographical studies. This course is required of all candidates for the M.A. degree. It should be taken at the beginning of graduate work.

214a-d SEMINAR. (5)

Farquhar

Victorian Literature. Intensive studies in the social and literary significance of Arnold, Browning, Carlisle, and Ruskin.

216a SEMINAR. The Critical Period in American Literature, 1890-1900. (5)

Knight

A study of the literature of the nineties, with emphasis upon the battle over realism, the loss of early national optimism, the resistance to naturalism, and the development of a genuine American literature.

* Open to Freshmen.

Full Quarter Courses

- *C1a ENGLISH COMPOSITION. (4)** Irvine
(For description see First Term)
- *C1b ENGLISH COMPOSITION. (4)** Irvine
A continuation of English 1a.

Second Term

- *1b ENGLISH COMPOSITION. (5)**
A continuation of English 1a.
- 3b HISTORY OF ENGLISH LITERATURE. (5)**
A continuation of English 3a. Prerequisites: English 1a, 1b; 3a.

Not open to Lower Division Students

- 130b COMPARATIVE LITERATURE. (5)** Brady
A continuation of English 130a, which is not prerequisite, although desirable. Prerequisites: English 1a, 1b; 3a, 3b.
- 170a BACKGROUNDS OF MODERN LITERATURE. (5)** Gallaway
A study of the relations between modern philosophic, psychological, and social thought and literature. The European novel will be used as a focus for study. Naturalism, symbolism, impressionism, humanism, expressionism, stream-of-consciousness, and sur-realism will be evaluated. Mann, Proust, Romins, Yeats, Huxley, Lawrence. Joyce, and others. Prerequisites: English 1a, 1b; 3a, 3b.

GEOLOGY

For Graduation Requirements See Catalog

First Term

- *24b ELEMENTS OF GEOGRAPHY. (4)**
A study of natural environment. An introduction to minerals and rocks. The development of the earth's surface features. Human aspects. Not available for credit to students who have had Geology 50a.

Not Open to Lower Division Students

- 120a GEOLOGY OF KENTUCKY. (4)** McFarlan
A study of the geological features of the state other than mineral resources. These include the major events in its geological history, the development of regional characters and an explanation of its scenic and natural wonders. No prerequisites.

GERMAN LANGUAGE AND LITERATURE

First Term

For Graduation Requirements See Catalog

Note—No credit will be given when work done in high school is repeated. One year of high school language is considered the equivalent of one semester of university language study.

No credit will be allowed for German 1a until German 1b has been completed. No student should enroll in two beginning languages at the same time.

* Courses open to Freshmen.

- *1a ELEMENTARY GERMAN. (5)** Bigge or Hegeman
The essentials of grammar and translation of easy prose with practice in reading and writing German. No credit is given for 1a until Course 1b is completed.
- *1b ELEMENTARY GERMAN. (5).** Bigge or Hegeman
Continuation of German 1a, with more extended exercises in easy reading, writing and pronunciation. **Prerequisite: German 1a or one high school unit.**
- 2a INTERMEDIATE GERMAN. (4)** Bigge or Hegeman
Graded reader, followed by short stories from representative authors. Special sections are arranged in 2nd year for students of the physical and biological sciences. **Prerequisites: German 1b.**
- 2b INTERMEDIATE GERMAN. (4)** Bigge or Hegeman
Continuation of German 2a. Selected readings. **Prerequisite: German 2a.**
- 3a SELECTED READINGS. (4)** Bigge or Hegeman
Prose and poetry from standard German authors with brief outline of German literature. **Prerequisite: German 2b.**
- 6a SCIENTIFIC GERMAN. (4)** Bigge or Hegeman
This course is designed primarily for the students of the physical and biological sciences. Assignments are made in recent publications along the line of the student's special interest. This course should be preceded by the scientific sections of second-year work. **Prerequisites: 2a and 2b.**

Not Open to Lower Division Students

- 105a-d INDEPENDENT WORK IN GERMAN. (4)** Bigge or Hegeman
This course is designed for students who wish to do advanced work in German in their particular field of specialization. It is not limited to majors in the department.

Second Term

- *1a ELEMENTARY GERMAN. (5)** Bigge or Hegeman
The essentials of grammar and translation of easy prose with practice in reading and writing German. No credit is given for 1a until Course 1b is completed.
- *1b ELEMENTARY GERMAN. (5)** Bigge or Hegeman
Continuation of German 1a, with more extended exercises in easy reading, writing and pronunciation. **Prerequisite: German 1a or one high school unit.**
- 2a INTERMEDIATE GERMAN. (4)** Bigge or Hegeman
Graded reader, followed by short stories from representative authors. Special sections are arranged in 2nd year for students of the Physical and biological sciences. **Prerequisite: German 1b.**
- 2b INTERMEDIATE GERMAN. (4)** Bigge or Hegeman
Continuation of German 2a. Selected readings. **Prerequisite: German 2a.**

* Open to Freshmen.

3b SELECTED READINGS. (4) Bigge or Hegeman
Continuation of German 3a. Prerequisite: German 3a.

6b SCIENTIFIC GERMAN. (4) Bigge or Hegeman
Continuation of German 6a. Prerequisite: 6a.

Not Open to Lower Division Students

105a-d INDEPENDENT WORK IN GERMAN. (4) Bigge or Hegeman
This course is designed for students who wish to do advanced work in German in their particular field of specialization. It is not limited to majors in the department.

HISTORY

First Term

For Graduation Requirements See Catalog

4a MODERN EUROPE TO THE FRENCH REVOLUTION. (5) Dupre
A survey of the growth of Europe from the decline of the Roman Empire to the middle of the eighteenth century.

***5a HISTORY OF THE UNITED STATES TO 1865. (5)** Knapp
Beginning about 1750, and tracing the principal features thereof to 1865. Designed especially to meet the requirements of elementary teachers' certificates in Kentucky.

40 HISTORY OF KENTUCKY. (3) Tuthill
A general survey of the chief periods of Kentucky's growth and development from 1750 to the present.

Not Open to Lower Division Students

147 RECENT HISTORY OF THE UNITED STATES. (4) Knapp
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 American History.

119a THE FRENCH REVOLUTION AND NAPOLEON. (4) Dupre
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.

120 EUROPE IN THE TWENTIETH CENTURY. (4) Tuthill
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; socialism, public education, invention and discoveries. Reports on current literature and assigned reading on a liberal scale.

* Open to Freshmen.

Second Term

- 4b MODERN EUROPE SINCE THE FRENCH REVOLUTION.** (5) Lunde
A survey of European developments from the eighteenth century to the present. A continuation of course 4a.
- *5b HISTORY OF THE UNITED STATES SINCE 1865.** (5) Clark
A continuation of Course 5a, from 1865 to the present.

Not Open to Lower Division Students

- 119b EUROPE IN THE NINETEENTH CENTURY.** (4) Lunde
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.
- 151a THE AMERICAN FRONTIER.** (4) Clark
A course dealing specifically with American expansion westward from the original colonies to California. This course will consider the westward movement in respect to population as well as expansion, political, economic, social and cultural development; analyze the process of national adjustments; and weigh the contributions of each succeeding period. It will consider the early west. **Prerequisites: History 5a and 5b or equivalents.**

HYGIENE AND PUBLIC HEALTH

First Term

For Graduation Requirements See Catalog

- *9 HYGIENE FOR TEACHERS.** (3) Heinz
The purpose of the course is to acquaint the student of education and teachers in service with the general nature of health problems in the school. Required of all students who wish to qualify for the Elementary or Secondary School Certificate. Open only to prospective teachers or teachers in service.

The Following Courses Open Only to Upper Division and Graduate Students

- C100a PUBLIC HEALTH.** (3) Heinz
A consideration of the cause, prevalence, transmission and control of preventable diseases.
- C110 HEALTH EDUCATION.** (3) Heinz
A course dealing primarily with principles of health education, health service and health protection. Intended to consider also the cooperative nature of school health work through study of problems in the solution of which contributions are made by parents, the school and the community.
- 111a-d INDEPENDENT WORK IN HYGIENE AND PUBLIC HEALTH.** (4) Heinz

* Open to Freshmen.

Second Term

- *9 HYGIENE FOR TEACHERS. (3)** Hamilton
The purpose of the course is to acquaint the student of education and teachers in service with the general nature of health problems in the school. Required of all students who wish to qualify for the Elementary or Secondary School Certificate.
Open only to prospective teachers or teachers in service.

The Following Courses Open Only to Upper Division and Graduate Students

- C100b PUBLIC HEALTH. (3)** Hamilton
Continuation of 100a. Environmental and organization approach to disease prevention.
- C115 COMMUNICABLE DISEASES. (3)** Hamilton
A study of communicable diseases with reference to causal agents, avenues of infection and methods of prevention with special emphasis on those diseases prevalent in Kentucky.

JOURNALISM

First Term

For Graduation Requirements See Catalog

- 10a SURVEY OF JOURNALISM. (4)** McLaughlin
A general non-professional course covering newspaper organization and problems of interest to newspaper readers. Lectures and practice in the style of writing employed by the press. Not open to majors in Journalism.
- 10b SURVEY OF JOURNALISM. (4)** McLaughlin
A continuation of Journalism 10a. Prerequisite: Journalism 10a.
- 20a NEWS REPORTING. (5)** Plummer
Instruction and practice in news gathering, news evaluation, and news writing. Examination of the reporter's place in the newspaper organization and study of the news methods of leading American newspapers. Regular assignments for Kentucky newspapers. Prerequisite: Journalism 2.
- 20b NEWS REPORTING. (5)** Plummer
A continuation of Journalism 20a with emphasis on specialized reporting such as society, sports, crime, politics, weather, and science. Prerequisite: Journalism 20a.
- 21 ETYMOLOGY. (4)** Plummer
A study of words and their fundamental values with reference to the development of a writing vocabulary.

The Following Courses Not Open to Lower Division Students

- 110 SUPERVISION OF HIGH SCHOOL PUBLICATIONS. (4)** Portmann
A study of the problems that confront the adviser of the high school newspaper or magazine. Open to advisers or prospective advisers with consent of instructor.

* Open to Freshmen.

112 CRITICAL WRITING FOR THE PRESS. (4) McLaughlin

The function of criticism in journalism. Reviewing of motion pictures, plays, concerts, and books for newspapers with emphasis upon student work in Kentucky newspapers.

125 MAGAZINE ARTICLE WRITING. (4) Plummer

Lectures, personal conferences, and practice in writing and submitting material for publication in magazines; study of markets for this material; free-lance article writing.

Second Term

20b NEWS REPORTING. (5) Portmann

A continuation of Journalism 20a with emphasis on specialized reporting such as society, sports, crime, politics, weather, and science. Prerequisite: Journalism 20a.

The Following Course Not Open to Lower Division Students

102 COMMUNITY JOURNALISM. (4) Portmann

A study of the problems which confront the community weekly and the small city daily. Prerequisite: Journalism 20b.

LIBRARY SCIENCE

For Graduation Requirements and Special Information Concerning Library Science, Consult the University Catalog.

First Term

128 CHILDREN'S LITERATURE. (3) Martin

A survey of the field of children's books with a comparative study of representative types (pre-school to junior high age). Special study of illustration and physical make-up, editions, book reviewing periodicals, aids in the selection of children's books; and of children's magazines. Closely correlated with L.S.132.

129a CATALOGING AND CLASSIFICATION. (3) Logsdon

A study of the principles and forms of classification and cataloging as complementary devices of arranging printed material and of providing a key to its nature, location and contents; with special emphasis on their application to the effective administration of the school or college library and their major function—service to the reader. Practice work under supervision is required in classifying materials by the Dewey Decimal system and in making a shelf list and a dictionary card catalog by the use of the unit typed or printed card.

133a REFERENCE AND BIBLIOGRAPHY. (3) Martin

A study of the essential reference works, particularly those most valuable in school and college libraries, including dictionaries, encyclopedias, atlases, yearbooks, periodical indexes and reference books or special subjects; of the more important subject and trade bibliographies; of government documents and vertical file material and of the standards and methods by which such material is selected, organized and efficiently used.

- 138 INTERPRETATION OF LIBRARY SERVICES. (3)** Wofford
 The course emphasizes various means of interpreting library service to readers. General topics covered are: formal and informal instruction in the use of the library, library publicity, and public relations of the library. Special attention is given to newer types of instructional devices available to libraries. **Prerequisites:** L.S. 126, 133a, 150a.
- 139 FIELD WORK. (3)** Wofford, Galloway
 Comparable to practice teaching. Observation of service in libraries in the area and supervised practical work in all departments of the libraries of the University Training School and nearby school systems; supplemented by seminar discussions. The course is designed to give the librarian in training an appreciation of library work as a whole by affording him opportunity for wide observation, for comparison of libraries and their methods, and for actual practice. Six hours per week. **Prerequisites:** L.S. 126, 129a, b, 133a, b, 144, 150a, b.
- 144 LIBRARY RECORDS AND METHODS. (3)** Martin
 A course presenting the fundamental knowledge and techniques necessary to the development of efficient library procedures for the acquisition, preparation, care, circulation and use of books and non-book material, especially periodicals, audio visual aids, with emphasis on the importance to effective library service of the application of modern business methods. Assigned readings, class discussion, lectures and demonstrations, special problems and projects.
- 150b BOOK SELECTION. (4)** Wofford
 Course 150b is devoted entirely to the study of the reading interests of young people of high school age and of the choice of books for them from the point of view of school and individual needs.
- 154 SEMINAR. (3)** Logsdon
 A survey of the field of library science through a brief study of the modern library movement and its history; of library agencies and media; of outstanding personalities in the field; of standards for professional training and certification; of current economic, social and educational problems of special interest to the school librarian. General discussion with special reports on assigned topics. **Prerequisites:** L.S. 126, 129a, b, 133a, b, 150a, b.

Second Term

Professional Courses

Open to Seniors and Graduate Students

- 129b CATALOGING AND CLASSIFICATION. (4)** Logsdon
 Continuation of 129a which is prerequisite.
- 133b REFERENCE AND BIBLIOGRAPHY. (4)** Logsdon
 Continuation of 133a which is prerequisite.

MATHEMATICS AND ASTRONOMY

First Term

For Graduation Requirements See Catalog

- 20b INTEGRAL CALCULUS. (5)** Fischer
 Completing the course in elementary calculus. **Prerequisites:** Math. and Ast. 20a.

The Following Courses Not Open to Lower Division Students

- 16a-f TUTORIAL WORK IN MATHEMATICS. (1) Fischer
Open only to A. & S. majors in mathematics.
- ADVANCED COURSE—To be selected. Fischer
- 110a-f INDEPENDENT WORK IN MATHEMATICS. (4) Fischer
Limited to upper division and graduate students of high standing.
Prerequisites: Math. and Ast. 20b.

Full Quarter Courses

- *17 COLLEGE ALGEBRA. (5) Pence
Begins with a review of quadratic equations and includes simultaneous quadratics, variations, permutations and combinations, theory of equations, etc. Prerequisite: $1\frac{1}{2}$ units High School Algebra.
- *19 PLANE AND SOLID ANALYTIC GEOMETRY. (5) Pence
The standard elementary course. Prerequisites: Math. and Ast. 5a, b or 17; 3.
- 20a DIFFERENTIAL CALCULUS. (5) Pence
The course covers elementary, differential calculus and an introduction to the integral. Prerequisites: Math. and Ast. 19.

The Following Course Not Open to Lower Division Students

- 110a-f INDEPENDENT WORK IN MATHEMATICS. (4) Pence
Limited to upper division and graduate students of high standing.
Prerequisites: Math. and Ast. 20b.

Second Term

- *3 PLANE TRIGONOMETRY. (5) Crawley
The usual course in plane trigonometry. Prerequisite: $1\frac{1}{2}$ units High School Algebra.
- *17 COLLEGE ALGEBRA. (5) Crawley
Begins with a review of quadratic equations and includes simultaneous quadratics, variations, permutations and combinations, theory of equations, etc. Prerequisite: $1\frac{1}{2}$ units High School Algebra.

MILITARY SCIENCE

Full Quarter Courses

Branch Immaterial

- *1a FIRST YEAR BASIC COURSE, ROTC. (2) Montgomery, Kinker
Introductory course in Military Science, covering the following subjects: National Defense Act and Obligations of Citizenship, Military Courtesy, Customs and Discipline; Leadership, Drill and Command; Military History and Policy; Rifle Marksmanship. Five hours a week.

* Open to Freshmen.

- *6a **SECOND YEAR BASIC COURSE, ROTC.** (2) Stivers
Course in Military Science covering the following subjects: Map Reading; Tactical Training of the Individual Soldier; Automatic Rifle. Four hours a week. Prerequisite: Military Science 1a, 1b, 1c. Five hours a week.

MUSIC

First Term

For Graduation Requirements See Catalog

- 4a **PUBLIC SCHOOL MUSIC.** (3) Lewis
A course in music methods and materials for use in the **PRIMARY GRADES** stressing care of the child voice; rote-song singing, and repertoire, rhythmic development; listening experiences of standard musical literature; beginning phases of notation.
- 4b **PUBLIC SCHOOL MUSIC.** (3) Lewis
A course in music methods and materials for use in the **INTERMEDIATE GRADES.** Continuation of 4a with the development of two and three-part singing; minor mode; chromatics, and rhythmic notation as found in typical music texts for fourth, fifth, and sixth grades.
- 13a **FORM AND ANALYSIS.** (3) Capurso
A study of the design and harmonic structure of simple and complex forms of music through analyses of standard musical compositions. Prerequisites: 33a-b.
- **c15a-1 **APPLIED MUSIC—Piano** (2) Cullis
- **c17a-1 **APPLIED MUSIC—Voice** (2) Dagley
- **c18a-1 **APPLIED MUSIC—Organ** (2) Cullis
- 19a **HISTORY OF MUSIC.** (4) Capurso
A general study of the history of musical development from the standpoint of form.
- 26 **HIGH SCHOOL METHODS.** (3) Lewis
Development of knowledge and skills in handling the music program in junior and senior high schools. This includes study of the adolescent in the junior high school; general music classes; music appreciation and theory classes; organization and training of special music groups as band, orchestra, and glee clubs; material for assemblies and integrated units.
- **39a-1 **GLEE CLUB.** (1) Lewis
Any student in the University may be admitted to the glee club after consultation with the director. (No credit allowed for B.S. in Music or Music Majors unless taken in conjunction with Orchestra.)
- **40a-1 **ORCHESTRA** (1) Capurso
Students who have demonstrated the required ability are given an opportunity to study standard orchestral literature. Public performances are given at regular intervals. (No credit allowed for B.S. in Music or Music Majors unless taken in conjunction with Glee Club.)

* Open to Freshmen.

** Courses a, b, c open to Freshmen; d, e, f courses for Sophomores; g, h, i courses for Juniors; and j, k, l courses for Seniors.

The Following Courses Open Only to Upper Division and Graduate Students

114a INSTRUMENTATION AND CONDUCTING. (3) Capurso

This course includes a study of the individual instruments of the symphony orchestra and concert band; practice in arranging primarily for string orchestra; the technique and practice of the fundamentals of orchestral conducting and score reading; and the problems of organizing and developing school bands and orchestras.

115 CHORAL METHODS AND CONDUCTING. (3) Lewis

This course is intended for music supervisors majoring in the choral field and will be a study of materials, techniques, and problems of presenting choral literature on the secondary level. Recommended as elective for choral supervisors.

Full Quarter Courses

****15a-1 APPLIED MUSIC—Piano (3) Cullis**

****17a-1 APPLIED MUSIC—Voice (3) Dagley**

****18a-1 APPLIED MUSIC—Organ (3) Cullis**

Second Term

13b FORM AND ANALYSIS. (3) Capurso

A continuation of Music 13a. Prerequisite: Music 13a.

***c15a-1 APPLIED MUSIC—Piano (2) Cullis**

***c17a-1 APPLIED MUSIC—Voice (2) Dagley**

***c18a-1 APPLIED MUSIC—Organ (2) Cullis**

19b HISTORY OF MUSIC. (4) Capurso

A continuation of Music 19a. Open only to music majors.

***40a-1 ORCHESTRA (1) Capurso**

Students who have demonstrated the required ability are given an opportunity to study standard orchestral literature. Public performances are given at regular intervals. (No credit allowed for B.S. in Music or Music Majors unless taken in conjunction with Glee Club.)

The Following Courses Open Only to Upper Division and Graduate Students

111a RESEARCH PROBLEMS IN MUSIC. (3) Capurso

A research course in some phase of music other than history or pedagogy of music theory. The student will confer with the instructor whenever either or both of them deem it advisable.

111b RESEARCH PROBLEMS IN MUSIC. (3) Capurso

Continuation of 111a. This course permits research in some phase of music which may, or may not, lead to the Master's Degree.

* Courses a, b, c open to Freshmen; d, e, f courses for Sophomores; g, h, i courses for Juniors; and j, k, l courses for Seniors.

** Note: Music 15a, b, c; 17a, b, c; 18a, b, c open to freshmen.

PHILOSOPHY

First Term

For Graduation Requirements See Catalog

- 51 **ETHICS** (4) Kuiper
A study of morality and right action, and an introduction to a general theory of value.

Courses Open Only to Upper Division and Graduate Students

- 102 **CONTEMPORARY PHILOSOPHY.** (4) Kuiper
A study of contemporary philosophical tendencies, notably naturalism and empiricism, pragmatism, idealism and neo-scholasticism. Bertrand Russell, John Dewey, George Santayana, A. N. Whitehead and Henri Bergson are among the philosophers to be discussed.
- 109a-d **INDEPENDENT WORK.** (4) Kuiper
Open only to students who have distinguished themselves in Philosophy or in allied subjects.

Second Term

- 21 **INTRODUCTION TO PHILOSOPHY.** (4) Kuiper
An elementary study of the principal types of philosophy, past and present.

Courses Open Only to Upper Division and Graduate Students

- 120 **GREAT RELIGIONS OF THE WORLD.** (4) Kuiper
A study of six religions in relation to the culture in which they arose: Shinto, Hinduism, Buddhism, the religion of ancient Greece, religion of Israel and Judaism, and Christianity.
- 109a-d **INDEPENDENT WORK.** (4) Kuiper
Open only to students who have distinguished themselves in Philosophy or in allied subjects.

PHYSICAL EDUCATION

For Graduation Requirements See Catalog

For teacher certification requirements, check with Dean of Arts and Sciences College and Head of Department of Physical Education.

First Term

- 42 **PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL.** (5) Warren
Required of all who wish to qualify for the Elementary School Teaching Certificate. Materials, practice and techniques in physical education activities suitable for elementary school children. Consideration of the significance of physical education in the elementary school and responsibilities of the class room teacher for leadership. Five hours per week.

**The Following Courses Open Only to Upper Division and
Graduate Students**

129 PHYSICAL EDUCATION IN THE SECONDARY SCHOOL.

(4)

Warren

Required of all physical education majors who wish to qualify for teacher certification as a physical education teacher on the secondary school level. Study of theory, practice and methods of teaching physical education activities and program for secondary school age pupils. Four hours per week.

Open to Graduate Students Only

**202 PROBLEMS COURSE IN CONTEMPORARY MOVEMENTS
IN PHYSICAL EDUCATION. (4)**

Hackensmith

A detailed study and analysis of various foreign systems and procedures in physical education and athletic activities, including Germany, Denmark, Sweden, England, Italy, Russia, Japan, Olympic Games, and present athletic and Physical Education trends in the United States. Open to men and women students. Four hours per week.

**203 CURRENT STUDIES IN THE ADMINISTRATION OF
PHYSICAL EDUCATION. (3)**

Hackensmith

For Administrative Officers, Directors of Physical Education and Leisure Time Activities. A study of representative programs of physical education and standards for evaluating programs. Open to men and women students. Three hours per week.

Recreative Activities. Archery, Badminton, Social Dancing, Tennis (men and women), Volleyball (men), Bowling, and Intramural Sports are offered without credit or additional tuition fees to regular summer quarter students during both terms. The activities are primarily designed for those who wish to acquire certain skill and teaching technique in the respective sports as well and to provide enjoyable recreational activities for the summer quarter. Students should sign up for the courses or course of their choice during the regular classification period or in the Physical Education office in the basement of the Alumni Gymnasium during the first week.

Note: All recreational activities will be scheduled in the afternoons and early evening hours.

Full Quarter Courses

***1 SPORTS SKILLS AND PHYSICAL FITNESS. (1)**

Beazley

All students required to take physical education must enroll in this course for their first quarter's work. Three hours per week.

***9 SOFT BALL. (1)**

Beazley

Fundamentals of Soft Ball. Three hours per week.

***11 TENNIS (1)**

Beazley

Fundamentals of Tennis. For beginners. Three hours per week.

* Courses open to Freshmen.

Second Term

The Following Courses Open Only to Upper Division and Graduate Students

123 HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION. (5) Hackensmith

Study of the historical development of Physical Education, and contributions of the individuals and organizational movements. An interpretation of the biological, psychological and sociological principles of physical education. Five hours per week.

125 ADMINISTRATION AND ORGANIZATION OF RECREATION. (4) Hackensmith

A study of policies and procedures involved in organization and administration of recreation for children, youth and adults. Four hours per week.

Note: For Recreative Activities see schedule for the first term. For degree requirements, see first term schedule.

PHYSICS

First Term

For Graduation Requirements See Catalog

***51 or *53 INTRODUCTION TO PHYSICS. (3)** Webb

A lecture demonstration course covering the subjects of Mechanics of Solids, Liquids, and Gases, or of Heat, Sound, and Light.

***7a GENERAL ELEMENTARY PHYSICS. (7)** Koppius

A general elementary course covering Mechanics, Wave Motion and Heat.

Other elementary and advanced courses will be given in Physics as the need for them arises.

Full Quarter Courses

3a GENERAL COLLEGE PHYSICS. (6)

An advanced general course covering Mechanics of Solids, Liquids, and Gases. Lecture and recitations, four hours, laboratory, four hours. Prerequisites: College Algebra and Trigonometry, Mathematics 19; College Chemistry; or equivalent; concurrent: Mathematics 20a.

Second Term

***52 INTRODUCTION TO PHYSICS. (3)** Webb

A lecture demonstration course covering the subjects of Electricity and Magnetism.

***7b GENERAL ELEMENTARY PHYSICS. (7)** Koppius

A course covering Magnetism and Electricity, Sound and Light. Other elementary and advanced courses will be given in Physics as the need for them arises.

* Open to Freshmen.

POLITICAL SCIENCE

First Term

For Graduation Requirements See Catalog

- *15 PROBLEMS OF CITIZENSHIP. (5)** Staff
Public opinion, the newspaper, advertising, the modern economic system, labor problems, unemployment, agriculture, conservation and the race problem.
- *51 AMERICAN GOVERNMENT. (5)** Staff
A survey course in the structure and operation of the Federal Government.

The Following Courses Not Open to Lower Division Students

- 177a PRINCIPLES OF PUBLIC ADMINISTRATION. (5)** Reeves
A functional study of governmental administration, with emphasis on the theory and practice of administration, the evolution of administrative organization, and staff functions of government, including personnel and financial administration.
- 171a EARLY POLITICAL THEORY. (5)** Shannon
The political theories of Plato, Aristotle, Roman Political Thought, Thomas Aquinas, Dante. Christian Political Thought.

Second Term

- *51 AMERICAN GOVERNMENT. (5)** Reeves
A survey course in the structure and operation of the Federal Government.
- 80 STATE GOVERNMENT. (5)** Reeves
A study of the forms and functions of government in operation in the states of the United States.

The Following Courses Not Open to Lower Division Students

- 168 THE GOVERNMENTS AND POLITICS OF EASTERN ASIA. (5)** Vandenbosch
An introductory study of the political institutions of China, Japan, the Philippines, and Dutch East Indies and India. Constitutional principles, governmental organization, the party system, current political issues and contemporary problems of international relations.

The Following Courses Open Only to Graduate Students

- 217 CONTEMPORARY AMERICAN DIPLOMATIC PROBLEMS. (5)** Vandenbosch
The following topics would be included in the scope of the course, the specific subjects varying from time to time: the Monroe Doctrine, Pan-Americanism, the Open Door, arbitration, limitations of armament, non-recognition doctrine, problems of the Philippines, American-Canadian relations, American-Mexican relations and such other current issues along this line as may arise from time to time.

* Courses open to Freshmen.

PSYCHOLOGY

First Term

For Graduation Requirements See Catalog

- *1 INTRODUCTION TO PSYCHOLOGY. (6)** Beaumont
An introduction to the study of the fundamental problems of human behavior. Recitations, demonstrations, and lectures. This course or its equivalent is the prerequisite to all other courses in the department.
- *2 APPLIED PSYCHOLOGY. (4)** Beaumont
The applications of psychological principles to business, industry, and public life. Special emphasis is placed on motivation, efficiency, and influencing the behavior of others. **Prerequisite: Psy. 1 or equivalent.**
- 7 PSYCHOLOGY OF THE CHILD. (4)** Asher
The development of behavior from birth to maturity. The problems of conduct arising during infancy, childhood and adolescence in relation to child care and training.
- 8 INDIVIDUAL DIFFERENCES. (4)** Newbury
An introduction to the study of individual differences in behavior in relation to measurement in psychology. The relation of such factors as race, sex, heredity, physical constitution, environment, and training to differences in behavior will be considered. This course is a prerequisite to Psychology 101, 102, 103, and 105. **Prerequisite: Psychology 1 or equivalent.**
- 5 PSYCHOLOGY OF ADVERTISING AND SELLING. (4)** Asher
General principles of psychology applied to these fields as a fundamental basis for preparing advertisements and plans for selling. The bearing of research methods and the social significance of advertising.

Not Open to Lower Division Students

- 115 GENETIC PSYCHOLOGY. (4)** Newbury
Influence of hereditary factors in the development of human behavior, with a critical survey of the problem and the evidence in connection with certain psychological traits such as musical and other special abilities, intelligence, insanity, and interests.

Second Term

- *1 INTRODUCTION TO PSYCHOLOGY. (6)** White
An introduction to the study of the fundamental problems of human behavior. Recitations, demonstrations, and lectures. This course or its equivalent is the prerequisite to all other courses in the department.
- *6 PERSONALITY. (4)** Dimmick
An introductory course in the field of personality with special emphasis on the biological and social factors involved in personality development. **Prerequisite: Psy. 1 or equivalent.**

* Open to Freshmen.

Not Open to Lower Division Students

- 104 **SOCIAL PSYCHOLOGY.** (4) White
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 present. Topics given special consideration: crowds, mob behavior, propaganda, and nationalism.
- 114 **Abnormal Psychology.** (4) Dimmick
An intensive course on disturbed conduct and thinking 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.

ROMANCE LANGUAGES AND LITERATURES

First Term

For Graduation Requirements See Catalog

- *1a **ELEMENTARY FRENCH.** (5) Schick
This course consists of a thorough drill in pronunciation using phonetics, elementary grammar including the study of nouns, personal pronouns, adjectives, the regular verbs and a few irregular ones, the writing of simple sentences from English into French and the reading of easy French including translations and easy conversation.
- *1b **ELEMENTARY FRENCH.** Schick
A continuation of 1a. Second half of course includes other parts of the sentence, more difficult sentences, ease in reading and a knowledge of France, its institutions and people. **Prerequisite: 1a or one year of high school French.**
- 2a **INTERMEDIATE FRENCH.** (4) Schick
Supplementary reading. A good pronunciation, a thorough knowledge of grammar and verbs, reading and conversation are the aims of this course. Rapid reading of ordinary French and the ability to express oneself in French are stressed. **Prerequisites: 1a-b or 2 yrs. high school French.**
- 8a **FRENCH PHONETICS.** (4) Schick
A scientific study of French sounds based on the International system of Phonetic symbols. **Prerequisites: 2a-b.**
- 3a **FRENCH CONVERSATION AND COMPOSITION.** (3) Schick
This course is designed to give students a fair amount of fluency in the use of the spoken language. The direct method will be used. **Prerequisites: 2a-b.**

Not Open to Lower Division Students

- 113a **ADVANCED FRENCH GRAMMAR.** (4) Schick
- 114a **INDEPENDENT WORK.** (4) Staff

* Open to Freshmen.

- *5a ELEMENTARY SPANISH. (5)** Server
 Fundamentals of the Spanish Language, reading in a simple reader. The purpose of this course is the learning of the essentials of Spanish Grammar and the acquisition of a practical vocabulary.
- *5b ELEMENTARY SPANISH. (5)** Server
 Prerequisites: 5a or 1 year high school Spanish.
- 7a INTERMEDIATE SPANISH. (4)** Server
 Review of grammatical principles, composition work, reading Spanish prose and literature. Prerequisite: 5a-b or equivalent.
- 9a SPANISH NOVEL AND DRAMA. (4)** Server
 Prerequisites: 7a-b.

Not Open to Lower Division Students

- 112b SPANISH LITERATURE XIX CENTURY. (4)** Server
 A continuation of 112-a. A study of the second half of The XIX Century.

Second Term

- *1b ELEMENTARY FRENCH. (5)** Holmes
 A continuation of 1a. Second half of course includes other parts of the sentence, more difficult sentences, ease in reading and a knowledge of France, its institutions and people. Prerequisite: 1a or one year of high school French.
- *2a INTERMEDIATE FRENCH. (4)** Holmes
 Supplementary reading. A good pronunciation, a thorough knowledge of grammar and verbs, reading and conversation are the aims of this course. Rapid reading of ordinary French and the ability to express oneself in French are stressed. Prerequisites: 1a-b or two years of high school French.
- *5b ELEMENTARY SPANISH. (5)** Holmes
 A continuation of 5a. Reading from simple texts. The practical use of the language is stressed. Prerequisite: 5a or one year of high school Spanish.
- 7a INTERMEDIATE SPANISH. (4)** Holmes
 Review of grammatical principles, composition work, reading Spanish prose and literature. Prerequisites: 5a-b or two years of high school Spanish.

Not Open to Lower Division Students

- 114a, b, c INDEPENDENT WORK. (4)** Holmes
 This course is designed for students who have the ability to do independent research under supervision.

* Open to Freshmen.

SOCIOLOGY

First Term

For Graduation Requirements See Catalog

- *1 PRINCIPLES OF SOCIOLOGY. (5)** Best
An introductory course dealing with the fundamental principles and aims of sociology through a consideration of social origins, social evolution, concepts of social progress, and social institutions. Not open to seniors.

Not Open to Lower Division Students

- 103 CRIMINOLOGY. (4)** Best
A study of general conditions as to crime and delinquency, of measures of punishment and reform of offenders, of criminal procedure and its possible reform, and of measures for the prevention of crime.

Second Term

- *2 MODERN SOCIAL PROBLEMS. (5)** Sanders
An introductory course involving an examination of certain practical concrete social problems of the present day, such as the family, child welfare, poverty, crime, racial issues, recreational values, community organization, urban and rural trends, housing conditions, population movements, social implications of industrial development, etc. Not open to seniors.

Not Open to Lower Division Students

- 109 THE FAMILY. (4)** Sanders
A study of the family both in its historical aspects and in connection with modern life.

ZOOLOGY

First Term

For Graduation Requirements See Catalog

- *1a GENERAL ZOOLOGY. (4)** Allen
A general course in zoology consisting of lectures, recitations and laboratory work. The first quarter is devoted primarily to the study of the invertebrates.

Not Open to Lower Division Students

- 101a HISTOLOGY. (4)** Brauer
Histology of the tissues. A course in the technique of the preparation of animal tissues for microscopic study. Practice in embedding, staining, sectioning, mounting and identification of tissues. Prerequisites: Zoology 1a, b, c.

* Open to Freshmen.

102 ORNITHOLOGY. (4) Allen

A study of the life histories, anatomy and physiology of birds with particular reference to the habits, songs, nests, migration and economic importance of our native birds.

108a PRINCIPLES OF ZOOLOGY. (3) Funkhouser

(Evolution.) An advanced lecture course open only to juniors, seniors and graduate students on the fundamental principles of biology. The first quarter is devoted primarily to the study of organic evolution.

110a-f INDEPENDENT WORK. (4) Staff

Special problems for individual students who are capable of pursuing independent investigations. For Zoology Majors.

160 ONTOGENY. (3) Brauer

Lectures on theories and philosophies of organismic development. Reports on the literature. **Prerequisites: Zoology 1a, b, c, and at least one course numbered above 100.**

Second Term

***1b GENERAL ZOOLOGY. (4)** Allen

A continuation of Course 1a, but open to students beginning the course. The second quarter is devoted primarily to a study of the higher invertebrates.

Not Open to Lower Division Students

101b HISTOLOGY. (4) Brauer

Histology of the organs. A continuation of Course 101a in which the studies are based on the organs and special attention given to pathology. **Prerequisite: Zoology 101a.**

106 EMBRYOLOGY. (6) Brauer

A general course in ontogeny. Studies in maturation, fertilization, cleavage, organogenesis and anomalies of development with laboratory work based on the chick and pig. **Prerequisites: Zoology 1a, b, c, 101a.**

108b PRINCIPLES OF ZOOLOGY. (3) Funkhouser

(Heredity.) A continuation of Course 108a. The second quarter is devoted to the study of heredity, eugenics and animal instincts.

110a-f INDEPENDENT WORK. (4) Staff

Special problems for individual students who are capable of pursuing independent investigations. For Zoology Majors.

* Open to Freshmen.

COLLEGE OF AGRICULTURE & HOME ECONOMICS

THOMAS POE COOPER, B.S., D.Sc., LL.D., Dean

AGRONOMY

First Term

- 104 **ADVANCED CROPS: FORAGE CROPS.** (4) Fergus
A comprehensive study of forage crops with special emphasis upon their production in Kentucky. Recitations, 4 hours. **Prerequisite:** Agr. 1; Bot. 1b.

AGRICULTURAL ENTOMOLOGY

Second Term

- 1 **AGRICULTURAL ENTOMOLOGY.** (4) Townsend
A general consideration of the fundamentals of insect structure, biology, and classification, with frequent discussions of current topics relating to both beneficial and destructive insects. Lectures, 3 hours; laboratory, 2 hours.
- 102 **ECONOMIC ENTOMOLOGY.** (4) Townsend
Especially planned for those intending to take up vocational agricultural teaching and county agent work. The life history, control, and means of identification of the common and important economic insects of Kentucky are considered. The making and care of school collections, cages, etc., are described. Lectures, 3 hours; laboratory, 2 hours. **Prerequisite:** A. E. 1.

ANIMAL INDUSTRY

First Term

- 1 **FARM LIVESTOCK PRODUCTION.** (5) Pifer
Importance and use of livestock products; types, market classes and grades of beef cattle, sheep, swine, horses and mules; the origin, development and characteristics of the more important breeds. Lectures, 3 hours; laboratory, 4 hours.
- 61 **GENETICS.** (4) Steele
The elementary principles of heredity and their relationship to plant and animal breeding. Attention is directed to human heredity. Lectures, 4 hours. Not open to freshmen.
- 121 **DAIRY CATTLE FEEDING AND MANAGEMENT.** (4) Ely
The application of the principles of nutrition to dairy cattle feeding; current methods contributing to maximum efficiency in the production of quality dairy products on the farm. Lectures, 3 hours; laboratory, 2 hours. **Prerequisite:** A. I. 81.

Second Term

- 41 FARM POULTRY PRODUCTION. (4)** McConnell
Principles of poultry husbandry; breeds and poultry improvement; selection and culling; incubation and brooding; feeding, housing and disease control; marketing poultry products. Lectures, 3 hours; laboratory and demonstrations, 2 hours.
- 141 ADVANCED POULTRY PRODUCTION. (5)** McConnell
Studies of control measures in poultry diseases, nutrition, marketing, flock management and replacement. Lectures, 3 hours; laboratory and demonstrations 4 hours. **Prerequisite: A. I. 41.**

ANIMAL PATHOLOGY

First Term

- 103 ANIMAL HYGIENE. (4)** Dimock, Hull
A consideration of both general and specific measures designed to promote health and prevent disease. Animal hygiene includes feed and water, housing and ventilation, yards and pastures, sanitation, and environment. All are part of the many problems to be considered in program of animal health. **Prerequisites: A. P. 101 and 102, or approval of instructor.**

FARM ENGINEERING

First Term

- 4a FARM SHOP. (3)** Young
Principles and practices in farm tool sharpening, soldering, painting and concrete work. Selection, use and care of tools. Shop exercises and projects in repair and construction of farm equipment. Lecture, 1 hour; laboratory, 4 hours.
- 101a SPECIAL PROBLEMS. (4)** Young
This course is designed to permit advanced students to make an intensive study of some phase of agricultural engineering in which they are particularly interested. **Prerequisite: F. E. 1 and approval of instructor.**

HORTICULTURE

First Term

- 10 VEGETABLE GARDENING. (2)** Olney
A study of the culture of vegetables for the home garden. Lectures, 2 hours.
- 120 LANDSCAPE GARDENING. (3)** Elliott
Adaptation of the principles of landscape as applied to present conditions; coordination of buildings with surroundings; selection and use of materials and their requirements. Lectures, 2 hours; laboratory, 2 hours.

MARKETS & RURAL FINANCE

First Term

- 103 **MARKETING LIVESTOCK.** (2) Card
Analysis of local, auction and terminal market organization including marketing agencies, market institutions, marketing services, public regulation, direct marketing, and cooperative organization. **Prerequisite:** M. & R. F. 100.

Second Term

- 101 **COOPERATIVE MARKETING.** (3) Clark
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. 100.

RURAL SOCIOLOGY

Second Term

- 101 **RURAL SOCIOLOGY.** (3) Beers
Introductory study of rural people and their communities; the distribution, mobility and vitality of rural population; characteristics of the rural community, rural groups and institutions; orientation to rural community problems. Lectures, recitations, individual reports. **Prerequisite:** Soc. 1 or Ec. 1.

HOME ECONOMICS

First Term

- 5 **FOODS.** (5) Barkley
An introduction to the study of food. The course includes a study of methods of preparation and principles involved. Lectures and laboratory, 9 hours.
- 27 **CLOTHING.** (5) Latzke
Fundamental principles of clothing construction applied to the making of garments. Study and use of commercial patterns; adaptation and alteration of commercial patterns to achieve individual designs. Lectures, 2 hours; laboratory, 6 hours. **Prerequisites:** H. E. 25, 26.
- 42 **INSTITUTION FOODS.** (6) Helton
Large quantity food preparation and service. Emphasis is placed on standard methods and cost accounting. Lectures, 3 hours; laboratory, 6 hours. **Prerequisite:** H. E. 6.
- 61 **HOUSING.** (4) Wilmore
The first part of the course deals with the social and economic problems of housing American families. The second half deals with the problems of house buying and house planning from the standpoint of the consumer. Lectures, 4 hours.

- 101 PRINCIPLES OF NUTRITION. (4)** Grundmeier
 Nutrition functions of food and nutritive requirements of the body are presented for those who wish to know the value to mental and physical efficiency of good food selection. Lectures, 4 hours. Not open for credit to students registered in home economics.
- 102 DIETETICS. (6)** Grundmeier
 Daily food requirements at different age levels, emphasis being given to satisfying the divergent needs of families and other groups. Practice is given in normal dietaries. Lectures, 3 hours; laboratory, 6 hours. **Prerequisites: H. E. 6, 11.**
- 125 ADVANCED TEXTILES. (3)** Latzke
 Individual term problems. Lectures, 3 hours. **Prerequisites: H. E. 25, Econ. 1.**
- 126 ADVANCED COSTUME DESIGN. (4)** Seeds
 A survey of costume throughout the ages. Planning of modern costumes. Lectures, 2 hours; laboratory, 4 hours. **Prerequisite: H. E. 26.**
- 127 ADVANCED CLOTHING. (4)** Seeds
 Individuality in costume is emphasized. Costumes are designed, draped and constructed without the use of commercial patterns. Lecture, 1 hour; laboratory, 6 hours. **Prerequisite: H. E. 27.**
- 141 INSTITUTION ORGANIZATION AND ADMINISTRATION. (4)** Helton
 Principles of institution organization, types of institution service, modern industrial tendencies, advertising, personnel and financial control. Lecture, 3 hours; laboratory, 2 hours. **Prerequisites: H. E. 41 and 42.**
- 152 CHILD CARE AND DEVELOPMENT. (5)** Mumford
 Study of the care and training of the child from pre-natal life through the pre-school period; standards for normal development—physical, social, emotional and mental; includes observations of pre-school children and participation in nursery school activities. Meetings with parents are required. Lectures, 3 hours; laboratory, 4 hours. **Prerequisites: A. & P. 3, Psych. 7.**
- 153 ADVANCED CHILD DEVELOPMENT. (4)** Beiter
 Detailed study of special features of child development during the first nine years. Observation in the nursery school and at the University school with special reference to body management, posture, expressive movements, language and speech, conduct in novel situations, emotional expression, conduct in relation to companions, and conduct in problem solving situations. Lectures, 2 hours; laboratory, 4 hours. **Prerequisite: H. E. 152.**
- 162b HOME MANAGEMENT AND FAMILY RELATIONSHIPS. (5)** Wilmore
 A residence period in the University home management house is required of all seniors in home economics. The course consists of laboratory work affording experience in the application of principles presented in other courses. **Prerequisite: H.E. 162a; prerequisite or parallel: H.E. 102.**

Second Term

- 6 FOODS. (4)** Barkley
This course includes the classification and composition of foods and the selection, purchase and preparation of food in connection with meal planning and service. Lecture and laboratory, 9 hours. **Prerequisite: H.E. 5.**
- 25 TEXTILES. (3)** Latzke
A study of fundamental weaves, yarns, fibers, and finishes with reference to the selection of appropriate fabrics from both economic and artistic viewpoints. Lectures, 2 hours; laboratory, 2 hours.
- 26 COSTUME DESIGN. (4)** Seeds
Appropriate costuming for the individual. Analysis of physical and mental makeup followed by study of costume color, line and texture for the individual and her costume needs. Original costumes are planned. Lectures, 2 hours; laboratory, 4 hours. **Prerequisite: Art 30a.**
- 103a PUBLIC SCHOOL NUTRITION. (2)** Grundmeier
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. Lectures, 2 hours. **Prerequisite or parallel: H.E. 102.**
- 103c PUBLIC SCHOOL NUTRITION. (1)** Grundmeier
Opportunities are given to make and collect illustrative material for courses in applied nutrition. Observation of nutrition classes, school cafeterias and other nutrition projects are made. Laboratory, 2 hours. **Prerequisite or parallel: 103a or 103b.**
- 106a FIELD WORK IN NUTRITION. (1)** Grundmeier
Nutrition problems at different age levels with emphasis on the child in the public school, correlated with surveys and experimental studies to show the relation between diet selection and its physical and mental effects. Lecture and laboratory. **Prerequisite: H.E. 103a, or b, or approval of instructor.**
- 107 WORKSHOP IN NUTRITION. (5)** Erikson
This workshop gives opportunity to workers in the field of nutrition to obtain help in presenting the program of "Nutrition for War." The nutrition problem is analyzed in its relation to agricultural and socio-economic problems. The latest findings in technical information on nutrition are presented. Opportunity is given to collect visual aid material for teaching nutrition.
- 111 ADVANCED NUTRITION. (6)** Erikson
Metabolic processes of the body in normal and diseased conditions, correlating the metabolic changes due to disease with diet therapy. The laboratory includes sugar tolerance tests; protein and mineral balance experiments; biological tests and vitamins. It also includes practice in the planning, calculation and preparation of therapeutic diets. Lectures, 3 hours; laboratory, 6 hours. **Prerequisite: H.E. 102.**
- 114. FOOD PRESERVATION. (3)** Helton
The principles of preserving food by drying, canning, pickling, salting and quick freezing. Practice is given in the canning of fruits, vegetables and meats; the pickling of fruits and vegetables and making of jellies and preserves. **Prerequisites: Bact. 52 and H.E. 5.**

- 129 INTERIOR DECORATION. (4)** Seeds
A study of color, line and texture as they are used to create effective interiors suited to modern living. Lectures, 2 hours; laboratory, 4 hours. Prerequisites: H.E. 25, Art 30b.
- 142a INSTITUTION MANAGEMENT. (4)** Helton
Application of scientific principles of institution management. Practice is given in office management and in the different units of service. Lecture, 1 hour; laboratory, 6 hours. Prerequisite: H.E. 141.
- 154 FAMILY LIVING. (4)** Mumford
The inter-locking relationships of community and family living. Emphasis is given to the influence of home conditions on the members of the family, and the results of such influence on attitudes and behaviors that affect community living. Lectures, 4 hours. Prerequisite: H.E. 61, 152, Econ. 1, Soc. 1 or R.S. 101.
- 155 THE CHILD AND HIS CLOTHING. (3)** Mumford
A study of the appreciation of the needs in children's clothing, the physiological and psychological functions, as well as the selection, costs and care of children's clothing.
- 156 PLAY AND PLAY MATERIALS. (3)** Beiter
A study of the appreciation of the importance of the right kind of play materials in the development of pre-school children; of materials to use, costs, labor and time; construction of toys.
- 161 CONSUMER PROBLEMS. (4)** Wilmore
A study of consumer buying and its social and economic aspects. An analysis of the common problems of the manufacturer, the merchant and the consumer in order to understand better the needs and responsibilities of each group. Lectures, 4 hours. Prerequisite: Econ. 1.
- 162b HOME MANAGEMENT AND FAMILY RELATIONSHIPS. (5)** Wilmore
A residence period in the University home management house is required of all seniors in home economics. The course consists of laboratory work affording experience in the application of principles presented in other courses. Prerequisite: H.E. 162a; prerequisite or parallel: H.E. 102.

COLLEGE OF ENGINEERING

JAMES HIRAM GRAHAM, C.E., Dean

Full Quarter Courses

CIVIL ENGINEERING

- 31 HIGHWAY LOCATION, CONSTRUCTION AND MAINTENANCE. (3)** Chambers
Principles of location, topographic conditions, economic considerations, benefits and costs. Materials and types of road, and general maintenance. Lectures and recitations, 3 hours a week.
- 35 HIGHWAY MATERIALS. (2)** Chambers
Methods of testing stone, gravel, sand, brick, culvert pipe, cement, concrete and other highway materials. Laboratory, 4 hours a week. Prerequisite or Concurrent: Civ. Eng. 31.

81 TESTING MATERIALS. (2) Chambers

Experimental investigations and tests of woods, metals, cement, concrete and other construction materials to verify the laws governing their behavior under given conditions. Laboratory, 4 hours a week. **Prerequisite or Concurrent: Applied Mech. 100.**

113 GEODESY, PRECISE SURVEYING AND LEVELING. (4) Shaver

Methods of making and adjusting observations in triangulation systems, and precise traverse. Observation and calculation for determining time, azimuth, latitude and longitude. Lectures and recitations, 3 hours a week; field work, 3 hours a week. **Prerequisites: Math. 11, 12; Civ. Eng. 13.**

181b INDEPENDENT PROBLEMS. (3) Staff

Continuation of Civ. Eng. 181a. Conference, laboratory or drawing room, 7 hours a week. **Prerequisite: Civ. Eng. 181a.**

SANITARY ENGINEERING

151 WATER SUPPLY AND WATERWORKS. (3) Cheek

Sources of supply; rainfall, surface water, rivers, lakes and ground water. Theory of filtration, purification, equipment and distribution. Problems in design and construction. Lectures and recitations, 3 hours a week. **Prerequisite: Civ. Eng. 120.**

152 SEWERS AND SEWAGE DISPOSAL. (3) Cheek

Sanitary and storm sewer system; theory of design; method of disposal. Lectures and recitations, 3 hours a week. **Prerequisite: Civ. Eng. 120.**

153. DESIGN OF WATERWORKS AND SEWERS. (2) Cheek

Design of water supply system, storm and sanitary sewers and disposal plants. Specifications and estimates of cost. Lecture, 1 hour, drawing room, 6 hours a week. **Prerequisite or Concurrent: San. Eng. 151, 152.**

156 WATER AND SEWER PLANT OPERATION. (2) Cheek

Standard methods of control for producing best results in the treatment of water and sewage. Practice, with miniature plants. Laboratory, 4 hours a week. **Prerequisite or Concurrent: San. Eng. 151, 152.**

ENGINEERING—GENERAL

Applied Mechanics

3 STATICS. (5) Hawkins, Backer

A study of forces, vectors, couples, moments of areas and masses, center of gravity, and their application to engineering structures in two and three dimensions. Lectures and recitations, 5 hours a week. **Prerequisite: Phys. 3a, Math. 20a. Prerequisite or Concurrent: Math. 20b.**

100 STRENGTH OF MATERIALS. (5) Hawkins, Backer

A general course in the application of the principles of mechanics to the solution of problems in stress and strain due to direct forces, shear, bending, torsion, eccentric loads and combined stresses; in beams, columns, thin cylinders, springs, etc. Lectures and recitations, 5 hours a week. **Prerequisite: Appl. Mech. 3. Prerequisite or Concurrent: Math. 20b.**

Engineering Administration

- 102 ENGINEERING ADMINISTRATION. (4)** Farris
A study of the methods, procedures, and principles involved in engineering analyses, contracts, specifications, estimates and valuations and administration of engineering projects. Lectures and recitations, 4 hours a week. **Prerequisite: Com. 1 or Pol. Sci. 15.**

Engineering Drawing

- 1a ELEMENTARY ENGINEERING DRAWING. (2)** Nollau, Horine
Freehand lettering, exercises in the use and care of drawing instruments, principles of orthographic and isometric projections, technical sketching, tracing and reproduction of drawings. Three 2-hour periods a week.
- 1b ELEMENTARY ENGINEERING DRAWING AND DESCRIPTIVE GEOMETRY. (2)** Nollau, Horine
A study of the essential principles of descriptive geometry and the solution of practical problems pertaining to the various branches of engineering. Three 2-hour periods a week. **Prerequisite: Eng. Draw. 1a.**
- 1c ELEMENTARY ENGINEERING DRAWING. (2)** Nollau, Horine
Continuation of Engineering Drawing 1b. Three 2-hour periods a week. **Prerequisite: Eng. Draw. 1b.**

MECHANICAL ENGINEERING

- 15a MANUFACTURING PROCESSES. (3)** Meyer
Covering modern precision machine shop methods, work layout, machine tool operation, inspection, measurement of finished work and machine assembly, as well as the technique of pattern making, welding foundry practice. Two 4-hour periods a week.
- 15b MANUFACTURING PROCESSES. (3)** Meyer
Continuation of Mech. Eng. 15a. Two 4-hour periods a week.
- 100a MACHINE DESIGN. (4)** Jett, Walton
(For Mechanical Engineers). Design of machine and structural elements. Lecture, 1 hour; drawing room, 11 hours a week. **Prerequisites: Eng. Draw. 12, Mech. Eng. 15a. Prerequisite or Concurrent: Applied Mech. 100 or 104.**
- 100b MACHINE DESIGN. (4)** Jett, Walton
(For Mechanical Engineers). Continuation of Mech. Eng. 100a. Individual work on the design and construction of complete machines or structures. Lecture, 1 hour; drawing room, 11 hours a week.
- 101 MECHANICAL ENGINEERING DESIGN. (4)** West
Individual work in the selection of equipment and in the laying out and specifying of power plants, heating, ventilating, air conditioning, plumbing, electric, industrial and elevator equipment for buildings. Drawing room, 12 hours a week. **Prerequisites: Mech. Eng. 104b, Applied Mech. 100 or 104. Prerequisite or Concurrent: Mech. Eng. 105, 106b, 107, 109.**

112a MECHANICAL LABORATORY. (2) Walton
 Practice in the operation, use, calibration and care of mechanical and industrial test and research instruments and apparatus, followed by the study of the methods used for the determination of certain fundamental coefficients and constants; also a study of the records and results from operating and test instruments in actual commercial use. Lecture, 1 hour; laboratory, 3 hours a week. **Prerequisite: Mech. Eng. 104a.**

112b MECHANICAL LABORATORY. (2) Walton
 Continuation of Mech. Eng. 112a. Lecture, 1 hour; laboratory, 3 hours a week.

METALLURGICAL ENGINEERING

26 ENGINEERING METALLURGY. (3) Beebe
 (For Civil, Electrical and Mining Engineers). An elementary course in metallurgy designed to acquaint the user of metals with the fundamental principles employed in the production and treatment of engineering metals and alloys, such principles being necessary to an intelligent use of these materials. Lectures and recitations, 3 hours a week. **Prerequisite: Chem. 1b or 2b.**

COLLEGE OF LAW

ALVIN E. EVANS, M.A., Ph.D., J.D., Dean

First Term

C124a EVIDENCE I. (2½) Randall
 Morgan & McGuire's Cases.

C147 RESTITUTION. (2½) Murray
 Woodruff's Cases.

170 LEGAL ETHICS. (2½) Murray
 Hick's Cases.

Second Term

C124b EVIDENCE II. (2½) Randall
 Morgan & McGuire's Cases.

C150 PUBLIC UTILITIES. (2½) Moreland
 Robinson's Cases.

142 Industrial Relations. (2½) Moreland
 Albertsworth's Cases.

COLLEGE OF EDUCATION

WILLIAM SEPTIMUS TAYLOR, M.A., Ph.D., Dean

AGRICULTURAL EDUCATION

First Term

179 DETERMINING CONTENT IN VOCATIONAL AGRICULTURE. (4) Hammonds
 Interpreting data as a basis for course building. Working out the content of a 4-year course in vocational agriculture.

- 287b **SELECTING TEACHING MATERIALS.** (4) Armstrong
 Specific references and other teaching materials are selected to be used in the teaching of vocational agriculture.
- 287d **DIRECTING FARM PRACTICE.** (4) Hammonds
 Considers farm practice as a method of teaching. Takes up standards, planning, supervision, records.
- 287e **TEACHING FARM SHOP.** (4) Tabb
 Includes determining content for shop, securing and equipping the shop, and methods of teaching farm shop.

Second Term

- 280 **METHOD IN TEACHING VOCATIONAL AGRICULTURE.** (4) Hammond
 The principles of methods are applied to the teaching of agriculture. For men with experience in teaching vocational agriculture.
- 287c **EVENING SCHOOLS.** (4) Hammonds
 Designed to prepare men to teach adult farmers. Includes organizing the school, determining content, methods of teaching, follow-up work.

BUSINESS EDUCATION

First Term

- 153a **TEACHING SECRETARIAL SUBJECTS.** (3) Lawrence
 Special techniques and devices for teaching shorthand, typewriting, and secretarial office practice are considered. Required of Commerce majors.
- 184 **TEACHING OFFICE APPLIANCES.** (3) Lawrence
 Methods and materials to be used in teaching the various office appliances to high school pupils. Dictating machines, mimeographs, multi-graphs, graphotypes, mimeoscopes, addressing machines, filing, calculating machines, and other appliances will be used.
- 280a-d **PROBLEMS IN BUSINESS EDUCATION.** (4) Lawrence
 Some of the more advanced problems in the field are studied. The type of problems considered is influenced by the interest and needs of the group. Some of these problems are: testing in business subjects; extra-curricular activities in commerce; job studies; placement and follow-up; types of equipment; and supervision.
- 257a, b **SEMINAR IN BUSINESS EDUCATION.** (1) Lawrence
 A study of current literature in business education with special reference to trends in this field.
- 260 **TEACHING CONSUMER COURSES IN THE HIGH SCHOOL.** (4) Lawrence
 This course is designed to provide techniques and devices for teaching pupils in high schools the various aspects of consumer education. The emphasis is placed on procedures rather than on content and the student is presumed to have a background of training in economics before taking the course.

Second Term

- 158b TEACHING ACCOUNTING. (3)** Lawrence
This course provides materials and techniques in the teaching of accounting. Required of Commerce majors.
- 184 TEACHING OFFICE APPLIANCES. (3)** Lawrence
Methods and materials to be used in teaching the various office appliances to high school pupils. Dictating machines, mimeographs, multi-graphs, graphotypes, mimeoscopes, addressing machines, filing, calculating machines, and other appliances will be used.
- 208a-d PROBLEMS IN BUSINESS EDUCATION. (4)** Lawrence
Some of the more advanced problems in the field are studied. The type of problems considered is influenced by the interest and needs of the group. Some of these problems are: testing in business subjects; extra-curricular activities in commerce; job studies; placement and follow-up; types of equipment; and supervision.
- 256 THE SOCIAL BUSINESS SUBJECTS IN HIGH SCHOOL. (4)** Lawrence
The various social business subjects will be examined to determine their contribution to the objective of business education.
- C259 THE COMMERCE CURRICULUM. (4)** Lawrence
Business subjects offered in the high school are examined critically to determine their content and the place each should occupy in high school curricula. A course of study is developed for each subject.

DISTRIBUTIVE OCCUPATIONS

First Term

- 112 DETERMINING TEACHING CONTENT IN DISTRIBUTIVE OCCUPATIONS. (4)** Baker
This course is planned to meet the needs of persons engaged as instructors in the field of distributive occupations. It will cover the analysis and course construction in the field of distributive occupations.
- 116 PROBLEMS OF THE COORDINATOR IN DISTRIBUTIVE OCCUPATIONS. (4)** Baker
The purpose of this course is to discuss some of the problems facing the coordinator as he acts in the capacity of intermediary between the school and the business world. Problems in placing students in stores, in follow-up methods, in store contacts, and in securing the cooperation of personnel management will be discussed.

EDUCATIONAL ADMINISTRATION

First Term

- 101 SCHOOL ORGANIZATION. (5)** Meece
A course designed to familiarize the prospective teacher with those activities of school organization and administration in which he 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.

210 SPECIAL PROBLEMS IN SCHOOL ADMINISTRATION.

(4)

Seay and others

An independent work course for students doing their first year of graduate work in education. **Prerequisite: Education 101 or 202.**

225a SUPERVISION OF INSTRUCTION. (4)

Seay

Topics considered in this course are the development of supervision, purpose of supervision, organization for supervision, use of classroom visitation and demonstration lessons, use of teachers' meetings and individual conferences, use of the course of study, use of tests and measurements, equipment and supplies, the teacher, and the pupil.

233 THE ADMINISTRATION OF THE TEACHING PERSONNEL. (4)

Meece

A specialized course in school administration, primarily for prospective superintendents. The course will emphasize principles and practices in teacher preparation, teacher selection and placement measurement of teaching efficiency, salaries, tenure, retirement, teaching loads, sick leave and related problems, and personnel records.

Second Term

202 LOCAL SCHOOL ADMINISTRATION. (5)

Meece

A general course in public school administration for the prospective superintendent of a county or city school system. The course deals with the state as an educational agency, the local school district, the board of education, the superintendent, the internal organization for the administration of a school system, problems of the teaching personnel, problems of pupil personnel, business management, finance and accounting, the curriculum, school building planning and management, and the supervision of instruction. This is one of the basic courses in school administration and should be taken at or near the beginning of the student's graduate program.

210 SPECIAL PROBLEMS IN SCHOOL ADMINISTRATION. (4)

Seay and others

An independent work course for students doing their first year of graduate work in education. **Prerequisite: Education 101 or 202.**

225b SUPERVISION OF INSTRUCTION. (4)

Seay

This course deals with the planning of specific programs for the improvement of instruction which are to be directed by superintendents, principals, supervisors, or helping teachers. Special consideration is given to current programs of in-service education of teachers as sponsored by different educational agencies in Kentucky.

EDUCATIONAL PSYCHOLOGY

First Term

118 EDUCATIONAL TESTS AND MEASUREMENTS FOR ELEMENTARY TEACHERS. (4)

Ross

The problems of measurement in the elementary school; formal and informal tests; marking systems, etc. **Prerequisite: One-quarter of Psychology.**

C122 EDUCATIONAL TESTS AND MEASUREMENTS FOR HIGH SCHOOL TEACHERS. (4) Ross

The problems of measurement in the junior and senior high school, with special emphasis on standardized tests. The construction and use of new-type tests, use and limitations of traditional examinations, marking systems, etc., are also considered.

223 EDUCATIONAL STATISTICS. (5) Ross

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

Second Term

118 EDUCATIONAL TESTS AND MEASUREMENTS FOR ELEMENTARY TEACHERS. (4) Ross

The problems of measurement in the elementary school; formal and informal tests, marking systems, etc. **Prerequisite: One-quarter of Psychology.**

C122 EDUCATIONAL TESTS AND MEASUREMENTS FOR HIGH SCHOOL TEACHERS. (4) Ross

The problems of measurement in the junior and senior high school, with special emphasis on standardized tests. The construction and use of new-type tests, use and limitations of traditional examinations, marking systems, etc., are also considered.

254 PROBLEMS IN EDUCATIONAL PSYCHOLOGY. (4) Ross

A critical survey of the conflicting schools of psychology, theories of learning, etc. **Prerequisite: One year of Psychology.**

ELEMENTARY EDUCATION

First Term

C133 DIRECTED TEACHING IN THE ELEMENTARY SCHOOL. (9) Duncan and Training Teachers

This course is designed to give the student experience with and practice in the program for the whole day in a modern elementary school. **Prerequisites: Education 44 and senior standing in the elementary curriculum.**

141 PROBLEMS IN DIAGNOSTIC AND REMEDIAL READING. (4) Duncan

A laboratory course in problems of prevention, diagnostic and remedial work in reading. An opportunity will be provided to observe demonstration of the use of instrumentation in diagnosis and correction of reading difficulties and the application of these clinical procedures to problem cases. (Observation in the University Elementary School. This class will include problems of elementary and high school teachers and administrators. Three hours lecture and discussion and two hours laboratory.)

C196 SCIENCE IN THE ELEMENTARY SCHOOL. (4) Estelle Adams

This course is planned to give a background of elementary science usable with children in the first six grades. The course includes planning units of work, organizing and using materials and references, use of illustrative material, excursions, and making bibliographies for teachers and children.

229 THE ELEMENTARY PRINCIPAL. (5) Duncan

This course deals with problems related to the elementary principalship, such as the professional preparation, selection and status of the principal; relation to other administrative officers, supervisors, teachers, pupils, and parents; problems of attendance, discipline, health and records; the application of sound principles to the improvement of teaching. Emphasis will be placed on the community relationship of elementary principals and teachers and ways in which they may cooperate and improve the life of the community. Attention will also be given to problems presented by members of the class as outgrowth of their experiences.

308a, b RESEARCH PROBLEMS IN ELEMENTARY EDUCATION. (4) Duncan

An independent research course. The student will confer with the instructor whenever either or both of them deem it advisable. **Prerequisite: One year of graduate work.**

Second Term

20 INDUSTRIAL ARTS FOR ELEMENTARY GRADES. (3) Haines

This is a practical course involving the use of tools and various materials suitable for use in the elementary school. It is intended for grade teachers who wish to make industrial arts an integral part of the elementary school curriculum.

110 ADVANCED INDUSTRIAL ARTS. (3) Haines

This course will deal primarily with the industrial processes involved in records and shelter suitable for classroom experimentation. As a result of work in this course the teacher should be able to guide children in the construction activities pertaining to the study of records and shelter. Some of the experiences he will receive will be in the fields of book binding, block printing, paper decorating, toy making, elementary woodworking, and interior decorating.

173 TEACHING LITERATURE TO CHILDREN. (5) Duncan

A study of literature for children from kindergarten to Grade VI. Reading and book reports from various types: 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.

212 THE ELEMENTARY SCHOOL. (5) Duncan

This course is designed to help the superintendent, elementary principal, and elementary supervisor in a better understanding of the modern elementary school. The activity program, objectives, research and study in the skills and content subjects of the elementary curriculum are discussed from the standpoint of supervision.

308a, b RESEARCH PROBLEMS IN ELEMENTARY EDUCATION. (4) Duncan

An independent research course. The student will confer with the instructor whenever either or both of them deem it advisable. **Prerequisite: One year of graduate work.**

HISTORY OF EDUCATION

First Term

- 220 **COMPARATIVE EDUCATION.** (4) Taylor
A course giving comparisons of systems of education

HOME ECONOMICS EDUCATION

First Term

- 263 **CURRENT PROBLEMS IN HOME ECONOMICS EDUCATION.** (4) Spickard
A study of some recent developments in the field of home economics education. Prerequisites: Ed. 160 and 162, experience in teaching.

- 268 **HOME ECONOMICS CURRICULUM CONSTRUCTION.** (4) Spickard
A study of the underlying principles of curriculum building for junior and senior high school home economics. Prerequisites: Ed. 160 and 162.

Second Term

- 261 **HOME ECONOMICS SUPERVISION.** (4) Parker
A course planned primarily to help prepare teacher trainers and supervisors of home economics education. Prerequisites: Ed. 160 and 162, experience in teaching and approval of instructor.

- 263 **CURRENT PROBLEMS IN HOME ECONOMICS EDUCATION.** (4) Parker
A study of some recent developments in the field of home economics education. Prerequisites: Ed. 160 and 162, experience in teaching.

INDUSTRIAL EDUCATION

First Term

- 71 **TRADE ANALYSIS AND COURSE PLANNING.** (4) Hankins or Crumpton
This course is planned to meet the needs of vocational teachers in the fields of coordination, shop instruction and related subjects in connection with day, part-time and evening schools.
- 77 **SHOP MANAGEMENT PROBLEMS.** (3) Hankins or Crumpton
This course has to do with industrial education in the school shop. It evaluates all types of activities in connection with this part of the educational program and gives due weight to each factor. Its economic value is of first importance.
- 79 **DETERMINING RELATED SUBJECTS' CONTENT.** (3) Hankins or Crumpton
In vocational education there is a body of related technical knowledge, in addition to the shop experiences of the pupils, necessary to a complete training program. This course discovers this material and organizes it into courses for the related subjects teacher.

**171a PRINCIPLES AND PHILOSOPHY OF INDUSTRIAL
EDUCATION. (3)**

Hankins or Crumpton

This course is planned primarily for the advanced student in industrial education. It covers the general philosophy of vocational education as it is tied up with the problems and principles of industrial education.

Second Term

73 TEACHING RELATED SUBJECTS. (4)

Hankins or Crumpton

The objective of this course is to acquaint the student with the techniques of handling the job of teaching the related technical subjects in the field of trade and industrial education.

**81 ANALYSIS OF LEARNING DIFFICULTIES IN
INDUSTRIAL EDUCATION. (3)**

Hankins or Crumpton

This course has been planned to meet the needs of teachers of vocational subjects in the field of industrial education. An analysis will be made of the learning difficulties encountered in teaching trade and related subject courses and remedial measures will be studied.

**108 COORDINATION TECHNIQUES IN INDUSTRIAL
EDUCATION. (3)**

Hankins or Crumpton

This is a course designed to meet the needs of persons functioning as coordinators in part-time or evening industrial education. It analyzes the social, educational and economic responsibilities of the coordinator and ties up these findings with the local school program in a better system of student training and student accounting.

**171b PRINCIPLES AND PHILOSOPHY OF INDUSTRIAL
EDUCATION. (3)**

Hankins or Crumpton

This course is planned primarily for the advanced student in industrial education. It covers the general philosophy of vocational education as it is tied up with the problems and principles of industrial education.

MUSIC EDUCATION

First Term

**251 PROBLEMS IN PUBLIC SCHOOL AND COMMUNITY
MUSIC. (5)**

Capurso

This course, open only to advanced students, will consider problems in teaching, supervising, organizing and leading public school and community music activities. Students in service will have an opportunity to bring problems from their own school or community situation; and, when possible, the instructor will visit them in the field. Projects, demonstrations, readings and discussion.

PHILOSOPHY OF EDUCATION

First Term

200a, b PHILOSOPHY OF EDUCATION. (4)

J. E. Adams

This is an advanced course dealing with the philosophy underlying the larger educational problems of today. **Prerequisite: 16 quarter hours in Education.**

205a, b **REVIEW OF CURRENT EDUCATIONAL LITERATURE.**

(4)

J. E. Adams

An extensive study of current educational literature as found in educational periodicals. **Prerequisite: 16 quarter hours in Education.**

234 **PROBLEMS OF CURRICULUM MAKING.** (4)

J. E. Adams

This course deals with the selection of materials in the elementary and secondary fields, the types of units used in modern instruction, how the child learns, the various educational agencies in the community, and how the school may be made a real community center.

Second Term

186 **VISUAL TEACHING.** (4)

Clifton

A course in methods and technique of visual instruction. Special emphasis is placed on charts, slides, graphs, maps, still pictures, motion pictures, and other visual aids, their effective use in teaching and the planning of outlines and lessons involving their use. Attention will also be given to the administration of visual aids in the school.

222 **METHODOLOGY OF EDUCATIONAL RESEARCH.** (4)

Taylor

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. **Prerequisite: 16 quarter hours in Education.**

SECONDARY EDUCATION

First Term

105 **FUNDAMENTALS OF SECONDARY EDUCATION.** (4)

Ligon

Deals with laboratory methods of instruction. Units: Fundamental processes, control, operation, administration.

142 **DIRECTED TEACHING IN ART.** (9)

Haines

This course has been planned for teachers who contemplate becoming supervisors of art in the public schools. **Prerequisites: Education (See Professional Major) and 27 quarter hours in Art.**

153 **DIRECTED TEACHING IN ENGLISH.** (9)

Anderson, Belser, Shipman

For seniors. Topics: Course of study, minimum essentials, materials, methods, testing. Part I, language and composition; Part II, literature. observation and practice, five hours; conference, two hours. **Prerequisites: Education (See Professional Major) and 27 quarter hours in English.**

154 **DIRECTED TEACHING IN LANGUAGES.** (9)

West

For seniors. Topics: Aims and objectives, course of study, methods, tests, equipment, analysis of textbooks. Observation and practice, five hours; conference, two hours. **Prerequisites: Education (See Professional Major) and 27 quarter hours in subject to be taught.**

155 **DIRECTED TEACHING IN THE SCIENCES.** (9)

Ginger, Mercer

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: Education (See Professional Major) and 27 quarter hours in subject to be taught.**

156 DIRECTED TEACHING IN MATHEMATICS. (9) Mercer
For seniors. Topics: Course of study, materials, methods, testing. Observation and practice, five hours; conference, two hours. Prerequisites: Education (See Professional Major) and 27 quarter hours in Mathematics.

157 DIRECTED TEACHING IN THE SOCIAL STUDIES. (9) Peck, Shipman, Belser
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: Education (See Professional Major) and 27 quarter hours in subject to be taught.

193 DIRECTED TEACHING IN BUSINESS EDUCATION. (9) Humphreys
For seniors. This course will include practice in junior business training; in shorthand; in typewriting and in such other commercial subjects as are commonly taught on the secondary level. Prerequisites: Education (See Professional Major) and 27 quarter hours in Commerce.

232 HIGH SCHOOL ADMINISTRATION. (4) Ligon
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.

Second Term

105 FUNDAMENTALS OF SECONDARY EDUCATION. (4) Ligon
Deals with laboratory methods of instruction. Units: Fundamental processes, control, operation, administration.

214a THE SECONDARY SCHOOL. (4) Ligon
This course is designed to acquaint the prospective principal or superintendent with the nature and function of the secondary school. This is one of the basic courses in the field of administration and should be taken at or near the beginning of the student's graduate program.

COLLEGE OF COMMERCE

EDWARD WIEST, M.A., Ph.D., Dean

First Term

1 PRINCIPLES OF ECONOMICS. (5) Carter
The theory of production, consumption, value and distribution.

2 ECONOMIC HISTORY OF EUROPE. (4) Jennings
A survey of conditions preceding the modern period with a more intensive study of the subsequent development of agriculture, industry, and finance.

7a PRINCIPLES OF ACCOUNTING. (5) Beals
Instruction in the science and adaptation of the accounts of going concerns, together with sufficient practice to acquire proficiency.

9 BUSINESS ORGANIZATION. (4)

Ketchum

A course designed to introduce students to the field of business. The relation of the business unit to the economic system; the internal organization of business firms of different types and in varied industries; description of the major functions of departments of a business unit; governmental regulation of monopoly and other undesirable commercial practices.

13a SECRETARIAL PRACTICE, SHORTHAND. (4)

The theory of Gregg shorthand with sufficient practice in writing to develop skill and speed in writing. Secretarial duties and traits are given some consideration. Personal use as well as vocational values are emphasized. Credit for this course will not be given until 13b is completed. **Prerequisite or concurrent: English 1a.**

13b SECRETARIAL PRACTICE, SHORTHAND. (4)

A continuation of Gregg shorthand with sufficient practice to develop a speed of from 90-100 words a minute in dictation. **Prerequisite: Com. 13a or its equivalent.**

14a ADVANCED SECRETARIAL PRACTICE. (4)

This course combines shorthand and typewriting in the transcription of shorthand notes and the development of office proficiency. Accuracy and speed in transcribing are emphasized. **Prerequisite: Com. 13a, 13b, 17a and 17b or their equivalent.**

17a SECRETARIAL PRACTICE, TYPEWRITING. (3)

Theory and techniques in typewriting are included with a thorough study of form, style and arrangement of typewritten material. A speed of 40 words a minute is required. **Prerequisite or concurrent: English 1a.**

17b SECRETARIAL PRACTICE, TYPEWRITING. (3)

A continuation of Commerce 17a with emphasis on the development of speed and accuracy sufficient for vocational use. A speed of 60 words a minute is required. **Prerequisite: Com. 17a.**

18 FILING (2)

The general principles, procedures, and systems of filing including sufficient practice with laboratory sets to develop facility and skill. Emphasis will be placed upon filing in business and government offices with a view to preparing file clerks for such offices.

103 TRANSPORTATION (4)

Sullivan

Railways, waterways, highways, airways. Rates, service, management, regulation. **Prerequisite: Com. 1.**

107 STATISTICAL METHOD. (4)

Palmer

Introduction to the sources of business data, the use of calculating machinery, tabulation, simple charts and graphs, the averages, dispersion, correlation, and time series analysis.

113 AUDITING (4)

Beals

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: Com. 7a and 7b.**

C203 HISTORY OF ECONOMIC THOUGHT. (4)

Wiest

A survey of the history of economic thought from the ancient period to about the end of the classical school. **Prerequisite: Com. 1.**

Second Term

7b PRINCIPLES OF ACCOUNTING. (5)

Beals

Continuation of 7a.

8 ECONOMIC GEOGRAPHY. (4)

Jennings

A brief study of the earth's physical characteristics and their relation to man's activities, including the effects of climate, natural resources and means of transportation upon the development of social, political and economic phases of life.

13b SECRETARIAL PRACTICE, SHORTHAND. (4)

A continuation of Gregg Shorthand with sufficient practice to develop a speed of from 90-100 words a minute in dictation. **Prerequisite: Com. 13a or its equivalent.**

14b ADVANCED SECRETARIAL PRACTICE. (4)

A continuation of Commerce 14a with special emphasis on secretarial duties and traits. A speed of 125 words a minute in dictation and 40 words a minute in transcription is required. **Prerequisite: Com. 14a or its equivalent.**

15 APPLIED ECONOMICS. (4)

Sullivan

Fundamental aspects of money and banking, industrial efficiency, marketing, transportation, public utilities, public finance, social control, et cetera.

17a SECRETARIAL PRACTICE, TYPEWRITING. (3)

Theory and techniques in typewriting are included with a thorough study of form, style and arrangement of typewritten material. A speed of 40 words a minute is required. **Prerequisite or concurrent: English 1a.**

17b SECRETARIAL PRACTICE, TYPEWRITING. (3)

A continuation of Commerce 17a with emphasis on the development of speed and accuracy sufficient for vocational use. A speed of 60 words a minute is required. **Prerequisite: Com. 17a.**

19 OFFICE APPLIANCES. (2)

The use of dictating, duplicating, and addressing machines, and similar appliances. Sufficient practice will be given to develop skill in the operation and care of such equipment. **Prerequisite: Com. 17a.**

102 LABOR PROBLEMS. (4)

Carter

Insecurity, wages and income, substandard workers, industrial conflict; wage theories; the economics of collective bargaining; unionism in its structural and functional aspects; recent developments. **Prerequisites: Com. 1.**

104 PUBLIC FINANCE. (4)

Martin

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: Com. 1.**

105 MONEY AND BANKING. (4)

Ketchum

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. **Prerequisite: Com. 1.**

108 ACCOUNTING THEORY. (3)

Beals

The function of accounting, asset valuation, recognition of revenue and expenses, and classification of equities will be studied with a view to presenting a coordinated body of accounting theory. **Prerequisite: Com. 106b.**

145 OFFICE MANAGEMENT. (4)

Lawrence

Planning and scheduling of work; employment procedures; supervision of employees, retraining, promotion; equipment.

155 INDUSTRIAL RELATIONS. (4)

Carter

Historical development of industrial relations; the economic implications of job analysis, recruitment, selection and training for industry; wages, hours, promotion and health policies; employee representation, collective bargaining, established policies, practices and procedures under the law; Union-management cooperation, building morale; the public service.

