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**Bulletin**  
**University of Kentucky**



**Summer Session 1930**  
**First Term: June 16 to July 19**  
**Second Term: July 21 to August 23**

**February, 1930**

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**Vol. 22**

**No. 2.**



## SUMMER SESSION CALENDAR

Saturday	May 17	Last date for ex-service men to make application for free tuition and room rent for first term.
Monday	June 16	Registration for first term.
Tuesday	June 17	Classes begin.
Friday	June 20	Last date for making changes in registration or in schedule without payment of fee.
Friday	June 20	Last date for making application for ex-service benefits for second term.
Monday	June 23	Last date upon which a student may register for credit for the first term's work.
Monday	June 23	Last date upon which a student may be dropped without a grade by the dean.
Tuesday	June 24	Last date upon which a student may withdraw and receive a refund of matriculation fee for the first term.
Saturday	July 19	Examinations for first term.
Monday	July 21	Registration for second term.
Tuesday	July 22	Classes begin.
Friday	July 25	Last date for making changes in registration or in schedule without payment of fee.
Monday	July 28	Last date on which a student may register for credit for the term's work.
Monday	July 28	Last date upon which a student may be dropped without a grade by the dean.
Tuesday	July 29	Last date upon which a student may withdraw and receive a refund of matriculation fee for the second term.
Friday	August 22	Commencement.
Saturday	August 23	Examinations for the second term.



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## GENERAL INFORMATION

### LENGTH OF SESSION

The summer session of the University of Kentucky for 1930 will be ten weeks in length and will be divided into two terms, the first to begin June 16 and close July 19, and the second to begin July 21 and close August 23.

Classes during the summer session will begin at 7:30 a. m. The first hour will be from 7:30 to 8:20, the second hour from 8:30 to 9:20, the fifth hour closing at 12:20 daily.

The courses listed for each term may be found in this catalog. No courses other than those scheduled will be offered.

### CLASSES OF COURSES

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

### FOR WHOM PLANNED

The summer session program of the University of Kentucky has been planned to meet the needs of the following groups:

1. Teachers in the public schools who wish additional training in their special lines of work and who desire to work toward college degrees.
2. Teachers in private and parochial schools who wish additional training in their special lines of work and who desire to work toward college degrees.
3. Supervisors of grade school work in special subjects.
4. City superintendents who desire to acquaint themselves with recent progress in education and who have special problems for solution.
5. County superintendents who desire to study the problems of the organization and administration of rural education and problems relating to the social life of the community.
6. Teachers in junior colleges who desire additional training in the particular fields in which they work and who are working toward higher degrees.
7. Normal school and college teachers who desire additional training in their chosen fields and who are working toward advanced degrees.
8. Undergraduates in agriculture, arts and sciences, commerce, education, engineering and law who find it desirable to shorten the period of their college courses.
9. Persons desiring training for Y. M. C. A., Y. W. C. A. and social welfare service, including playground directors.



## ADMISSION

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

### TO THE FRESHMAN CLASS

An applicant for admission to the freshman class of any of the colleges of the University except the College of Law must offer credit for fifteen units of high school or other secondary school work, so chosen as to include the five basic units prescribed by all the colleges. Only students who hold certificates of graduation from an accredited high school will be admitted without examination. No student will be admitted as a candidate for a degree with less than fifteen units.

### TO THE COLLEGE OF LAW

The College of Law is co-educational. Both men and women are admitted either in the regular session or in the summer session. The same requirements for admission to the summer session prevail as for the regular session—the completion of two years of college work, or sixty semester hours.

Students from other law schools of the American Association of Law Schools are admitted on the same terms as students of the University of Kentucky College of Law.

### TO ADVANCED STANDING

Candidates who can present equivalents of any part of the college work may secure advanced standing and thereby reduce the number of hours required for graduation. They may secure this advanced standing by one of two methods:

a—By examination on each subject for which credit is desired.

b—By transfer from an accredited college or university. An official statement must be submitted to the Registrar certifying in detail the work for which credit is desired.

### AS SPECIAL STUDENTS

A graduate of another university or college may enter the University to pursue any special work. Other persons may be admitted as special students under the following conditions:

a—They must be prepared to do the work desired, and give good reason for not taking a regular course.

b—They must be at least twenty-one years of age.



### AS GRADUATE STUDENTS

The Graduate School is open to students who are graduates of this or any other university or college of recognized standing. Application for admission to this school should be made to the Registrar of the University, and should be accompanied by official certificates attesting the candidate's completion of an undergraduate course.

For further information, see statement of the Graduate School.

### BY CERTIFICATE

Persons who desire to enter the University by certificate instead of by examination must have their credits certified by the superintendent or principal of the school in which they may be secured. Blank forms for such certificates will be furnished by the Registrar of the University on application. These certificates should be properly made out, signed and mailed to the Registrar as early as possible and not later than one week before registration. Only graduates of accredited schools or those who have completed the accredited course will be admitted upon certificate. A diploma, such as is given at graduation to high school pupils, cannot be substituted for this certificate.

### BY EXAMINATION

If not a graduate of an accredited high school the student must present entrance credits for 15 units, including those prescribed, and pass examinations in four subjects as follows:

1. ENGLISH (including composition).
2. MATHEMATICS (algebra and plane geometry).
3. TWO SUBJECTS of at least one unit each to be selected by the student. The list of entrance subjects may be procured from the Registrar.

If the student is not a graduate of the school from which he comes, he will not be admitted on entrance examinations within one year after leaving such school unless he presents a statement of honorable dismissal.

### RESIDENCE REQUIREMENTS FOR GRADUATION

Two semesters of work at the University of Kentucky will satisfy the residence requirements for the bachelor's or the master's degree. Three summer terms are considered equivalent to one semester. For the bachelor's degree thirty semester credits must be completed in the senior year (the work to be done in the college from which the student is to be graduated). For the master's degree, at least twenty-four credits must be completed, in addition to the thesis.



## GENERAL REQUIREMENTS FOR A DEGREE

All applicants for a degree must have satisfied the following requirements:

### 1. NUMBER OF CREDITS.

An applicant for a degree must have the required number of acceptable credits. One semester's work in a beginning modern foreign language cannot be accepted until the student has received a passing grade in the work of the second semester.

### 2. REQUIREMENTS FOR GRADUATION.

A. B. & B. S.	*127	semester hours
B. S. in Agr.	*139.3	semester hours
B. S. in H. E.	*133.1	semester hours
A. B. in Educa.	*127	semester hours
B. S. in Com.	*127	semester hours
LL. B.	*80	semester hours (60 A&S credits required for admission.)

\*With equal number of quality points. B. S. in Eng. College. Completion of courses outlined in University catalog.

### 3. CLASSIFICATION AS A REGULAR STUDENT.

An applicant must be a regular student and cannot be doing work as a special student. The student must have a standing of 1.0 after all penalties have been subtracted. All advanced work that is accepted is counted with a standing of 1.0.

### 4. FINANCIAL DELINQUENTS.

An applicant must not be a delinquent financially at the Book Store, Business Office, Post Office, Library, Athletic or Military Department or any other office at the University.

### 5. GROUP REQUIREMENTS.

All group requirements and requirements in Military Science and Physical Education must have been met.

### 6. RESIDENCE REQUIREMENTS.

The residence requirement must be fulfilled. Permission for all extension taken in the Senior year must be obtained from the Dean and must not violate the Senior Residence Rule.

### 7. EXTENSION WORK.

Not more than 12 credits may be taken by extension in any one calendar year. This is the maximum amount that may be counted, whether it is taken at the University of Kentucky or elsewhere.

### 8. APPLICATION FOR A DEGREE.

Application for a degree must be filed in the Office of the Registrar at the time announced for the filing of applications. 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 we are not responsible for carrying over applications from one session to another.

Note—In the rush of work it may be impossible to take into consideration all the elements that enter into your problem. Your record will be checked according to the above outline and will bear the responsibility of having satisfied the requirements outlined above.



## REQUIREMENTS FOR GRADUATION

### COLLEGE OF ARTS AND SCIENCES

#### DEGREES

The college offers courses leading to the following degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Arts in Journalism, Bachelor of Science in Industrial Chemistry.

#### THE DEGREE OF BACHELOR OF ARTS

For the degree of Bachelor of Arts the student is required to gain a total of 127 credits and 127 points, that is, a standing of 1, subject to the following conditions:

#### OUTLINE OF REQUIREMENTS FOR GRADUATION

##### I. GENERAL REQUIREMENTS.

Matriculation Lectures	.3 credit
Military Science (men)	5.6 credits
Physical Education	2.8 credits
Hygiene	1.3 credits
English	6 to 12 credits

(12 if only 3 units entrance.)

##### II. GROUP REQUIREMENTS Lower Division Freshman and Sophomore years

1. Foreign Languages, 6 to 18 credits. (6 in 1 language if 3 or more units entrance 12 if only 2 units entrance; 18 if only 1 or no unit entrance).  
French, German, Greek, Italian, Latin or Spanish.
2. History and Social Sciences, 6 to 12 credits (6 in one department if 1 unit entrance in History; 12 including 6 credits in History, if no entrance in History).  
Economics, History, Political Science or Sociology.
3. Mathematics, Philosophy or Psychology, 6 credits in one department.
4. Physical Science, 6 to 10 credits in one department.  
Astronomy, Chemistry, Geology or Physics.
5. Biological Science, 6 to 8 credits in one department.  
Bacteriology, Botany, Physiology or Zoology.

##### III. MAJOR 20 credits, Upper Division, Junior and Senior years. Any department, exclusive of elementary courses.

##### IV. MINORS 20 credits, Upper Division, Junior and Senior years. May be in two departments or related groups, exclusive of elementary courses. Consult Head of Major Department.



- V. ELECTIVES IN OTHER COLLEGES OF THE UNIVERSITY. Not more than 30 credits.
- VI. In the Arts-Education course the student must take 20 credits in one minor.
- VII. RESIDENCE RULE. The Senior year must be spent in residence in this college.
- VIII. TOTAL CREDITS REQUIRED, 127 credits.

#### COLLEGE OF AGRICULTURE

To receive the degree of Bachelor of Science in Agriculture, a student must complete 139.3 credits of work with a standing of 1.

These credits are classified as follows:

Prescribed subjects, non-agriculture	48.0 credits
Prescribed subjects, agriculture	32.3 credits
Electives required in agriculture	30.0 credits
Free electives	29.0 credits

Total	139.3 credits
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Students who have not had physics in high school will be required to take a six-credit course in college which will reduce the number of free electives credits to 23. The free electives may be in agriculture. It will thus be seen that there is opportunity to take work in agriculture amounting to 91.3 credits.

To receive the degree of Bachelor of Science in Home Economics, a student must complete 133.1 credits of work with a standing of 1.

The amount of work a student will be permitted to carry is indicated in outline of courses. However, if a student has maintained a standing of 2 during a semester, he may, upon permission of the dean, carry additional hours the following semester.

The maximum and minimum hours for special students are the same as for regular students.

Prior to the senior year all candidates for the degree in agriculture must satisfy the dean that they have had at least one year's work on the farm or work for two summer vacations of three months each.

A student desiring to do work in any department of instruction should select his courses of study upon the advice of the head of the department.

#### COLLEGE OF ENGINEERING

##### 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 Mechanical Engineering.

Bachelor of Science in Mining Engineering.

Bachelor of Science in Metallurgical Engineering.

The courses of study leading to these degrees are identical during the freshman and sophomore years. Familiarity with such fundamental subjects as chemistry, drawing, English, mathematics, physics and practical mechanics is essential to the successful study and practice of any branch of the engineering profession. Furthermore, after two years of college work a student is better able to make a definite choice of the branch of engineering which he is best fitted to follow. During the junior and senior years the courses are planned to give the special training that is suited to each branch of the profession.

For a detailed description of the curriculum, write for a catalog of the regular session.

#### COLLEGE OF LAW

The summer session in the College of Law for 1930 occupies ten weeks. Certain courses may be completed at the end of the first five weeks, and in their place others will be taken up for the second five weeks period. Certain other courses will occupy the entire session.

Examinations will be held as soon as the courses are completed.

The summer session is a regular part of the work of the school, and the same quantity and quality of work is required in the summer session as in the regular session. An effort has been made to provide a full program, not only for the first year students, but also for second and third year students. Approximately one-third of the year's work can be accomplished in the summer session. Three summer terms are considered the equivalent of one semester.

#### COLLEGE OF EDUCATION

The College of Education grants two degrees: A Bachelor of Arts in Education and a Bachelor of Science in Education.

Students who major in education and select their group work in English, mathematics, the social sciences, the natural sciences or the languages will be entitled to consideration for the degree of Bachelor of Arts in Education.

Students who major in education and select their group work in art education, agriculture, engineering or home economics will be entitled to consideration for the degree of Bachelor of Science in Education.

For a degree in education the student is required to present a total of 127 credits with a standing of 1.

#### THE DEGREE OF BACHELOR OF ARTS IN EDUCATION

The following is the work required in all curricula leading to the degree of Bachelor of Arts in Education:



#### ARTS AND SCIENCES

English .....	6 credits
Science .....	6 credits
Social Sciences .....	6 credits
Psychology .....	3 credits
General Hygiene .....	1.3 credits
Physical Education .....	1.4 credits
Military Science (Men) .....	5.6 credits

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Total Academic Subjects ..... 29.3 credits

#### PROFESSIONAL SUBJECTS

Psychology of Study .....	3 credits
Survey of Education .....	3 credits
Educational Psychology .....	3 credits
Tests and Measurements .....	4 credits
School Organization .....	3 credits
Directed Teaching .....	5 credits
Educational Sociology or Philosophy of Education .....	4 credits

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24 credits

#### GROUP ELECTIVES

Group Electives in First Minor .....	24 to 30 credits
Group Electives in Second Minor .....	24 to 30 credits
Free Electives .....	15 to 24 credits

#### COLLEGE OF COMMERCE

The degree of Bachelor of Science in Commerce is conferred upon students who present 127 credits with a standing of at least "1" and who complete all the required courses. Required subjects vary somewhat according to the curriculum selected. The minimum requirements are listed in the General-Business Curriculum of the General Catalog. Unless two units in the ancient or foreign languages are offered for entrance, one year of language in college is required. It is strongly recommended that all commerce students elect at least one year of 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.



#### ADMISSION TO THE GRADUATE SCHOOL

Graduates of the University of Kentucky are admitted to the Graduate School without examination. Graduates of other approved universities and colleges are admitted to the Graduate School upon filing with the Registrar of the University an official transcript of their undergraduate record. It is desirable that this record be sent some weeks in advance of the opening of the summer session. In some cases it is necessary to prescribe undergraduate courses as a further preparation for candidacy for the degree sought. This is required of students coming from B grade institutions and also of students whose undergraduate work has not sufficiently prepared them to proceed with graduate study in their major field.

College graduates who desire to confine their work to undergraduate courses and who do not expect to become candidates for higher degrees should not register in the Graduate School, but with the Dean of the College in which their courses are listed.

#### GENERAL REQUIREMENTS FOR THE MASTER'S DEGREE

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

Two plans are provided for satisfying the requirements for a master's degree, as follows:

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

#### GENERAL REQUIREMENTS FOR THE DOCTOR'S DEGREE

The degree of Doctor of Philosophy is offered with major work in the following departments: Chemistry, Education, Economics, Mathematics, Physics, Psychology, and Political Science. 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, 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 attainments



through long study, of independent and comprehensive scholarship in a special field. Such scholarship should be shown by a thorough acquaintance with present knowledge in his special field of learning and a marked capacity for research.

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.

#### TEACHERS' CERTIFICATES

The act governing the certification of teachers by the University of Kentucky passed by the General Assembly of 1926 provides for the issuance of certificates through the College of Education, University of Kentucky, as follows:

A COLLEGE ELEMENTARY CERTIFICATE, valid for two years of teaching in any elementary school of the State, shall be issued upon completion of at least thirty-two semester hours of work, including six semester hours in education. This certificate shall be renewed for two years upon completion of at least sixteen or more additional semester hours of college work, at least eight of which must be earned in residence.

A STANDARD CERTIFICATE, valid for three years of teaching in any public school of the Commonwealth, shall be issued upon completion of at least sixty-four semester hours of college work, including twelve semester hours in education. This certificate shall be renewed upon evidence of thirty-two additional semester hours of college work, including six semester hours of education. It may be extended for life when the applicant has met the requirements for a baccalaureate degree in the College of Education and presents in addition thereto three years of successful teaching experience after graduation from the University of Kentucky.



A COLLEGE CERTIFICATE, valid for three years of teaching in any public school of the Commonwealth, shall be issued to persons completing a curriculum in the College of Education and receiving a degree therefrom. This certificate shall be renewed for life after three years of successful experience in educational work in the public schools. Credit for one year of graduate work may be accepted in lieu of one year of successful experience as above provided.

#### DESIGNATION OF COURSES

The courses in each department are numbered as in the University catalog, those primarily for undergraduates, from 1 to 99; those for both graduates and undergraduates, from 100 to 199; and those primarily for graduates, from 200 on. All courses are fully described in the subsequent pages.

#### STUDENT LOAD

The normal load for the average student is six semester hours for each term. Students presenting a standing of 2 (average of "B") or better will be allowed to carry seven semester hours either term, which will be the maximum load for summer session students. No student will be allowed to earn more than thirteen hours during the two terms.

No student will be allowed to carry more than the normal load without filing a petition for extra work with the dean of his college and having it approved by the Scholarship and Attendance Committee. Persons entering five days late will be required to carry one credit less than the amount specified above.

#### REDUCED RAILROAD RATES

The Southeastern Passenger Association has granted railroad rates of one and one-half fare for round trip tickets for the summer session of 1930. This rate applies to the entire southeastern territory with the exception of stations in Virginia and Washington, D. C. Tickets will be on sale June 13 to 19, inclusive, and July 18 to July 24, inclusive. The final limit on all tickets will be August 30. These tickets must be validated by the regular passenger agent at Lexington before the return journey is commenced.

Please write to the Director of the Summer Session for proper identification blanks before you come to the summer session.

#### FEEES

The tuition fee for each college, with the exception of the College of Law, is \$18.00 a term. In the College of Law, there is just one term of ten weeks and the fee is \$50.00 for the term.

Any student registering for a course in the College of Law shall pay the tuition fee for this College, namely, \$50.00. This applies not only to students majoring in law but to students in all other colleges.



### REFUNDS

During the first eight days after the opening of either term of the summer session, students may receive a refund on the amount paid in fees, not to exceed 80% of all fees paid. In no case shall the amount refunded exceed 80%, and in no case will refunds be made after the first eight days.

### LATE REGISTRATION

Students entering the University after the regular registration period will be charged an additional fee of \$2.00 for the first day and \$1.00 a day thereafter, the total not to exceed \$5.00.

No student will be permitted to matriculate after Thursday of the first week of the term without special permission of the heads of departments concerned and the Dean of the College. No student will be allowed to register for credit for the first term's work after June 23 nor for the second term's work after July 28.

### CHANGES IN REGISTRATION

After three days following the regular registration period, a fee of \$2.00 will be charged for transfer from one college or school to another.

### LATE CLASSIFICATION FEE

Students who fail to arrange classification within the scheduled time will be charged a fee of \$2.00. No change in registration will be permitted after the dates indicated in the calendar.

### FEE FOR CHANGE IN CLASSIFICATION

After three days following the regular registration period a fee of \$2.00 will be charged for any change in schedule.

### 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 credit.
- B. Good, valued at 2 points for each credit.
- C. Fair, valued at 1 point for each credit.
- D. Unsatisfactory, indicates a deficiency and gives no points, but gives credit for graduation if with such credits the student's standing is 1 or more.
- E. Failure, valued at 0 points and no credits.
- I. Incomplete.
- X. Absent from examination.

The *standing* of a student is defined as the ratio of his total number of points to his total number of credits. For example, a student who



makes an average mark of C thruout his course of 120 semester hours, would have 120 points and 120 credits, and a standing of *one*. An average mark of B would give the student 240 points and 120 credits and a standing of *two*. When a semester'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

The University residence halls will be open during the summer session.

In the women's residence halls, the cost of a room ranges from \$10.00 to \$15.00 a term, according to the room occupied. There are a few single rooms which may be had for \$15.00; the others are double rooms, each occupant paying \$10.00 a term. To reserve a room, it is necessary to make a deposit of \$5.00 with the Dean of Women. No definite room assignments are made until after June 8. No room is held after June 16 unless special arrangements have been made with the Dean of Women. All women students are required to stay in the women's halls unless special permission is obtained from the Dean of Women.

Residence halls for women are furnished, with the exception of linen and blankets. Students having rooms in the women's halls are expected to bring with them the following articles: sheets, pillow slips, blankets and towels. All other necessary articles will be furnished.

Rooms in the men's dormitory cost \$12.50 to \$17.50 a term for each person in a room according to the room occupied. Bed linen is included. To secure a reservation, a deposit of \$5.00 should be sent to the Dean of Men. Reservations not claimed by June 16 will not be held unless arrangements are made with the Dean of Men.

*Meals at the University Cafeteria.* Meals will be served at the University cafeteria during the summer session.

*Rooms and Board in Lexington.* A list of desirable rooms and boarding places in the city is kept in the office of the Dean of Men. Good double rooms range in price for the term from \$12.50 up; single rooms from \$15.00 up. Men who have not made reservations should apply, upon arriving in Lexington, at the office of the 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 session during both terms. Consultations may be had at the offices of the Department of Hygiene.

#### PLACEMENT SERVICE

There is a constantly growing demand for the services of the graduates of the University of Kentucky. The Placement Service is



operated through the College of Education, 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.

The University desires to be of greatest service to the public schools of Kentucky by training an efficient group of teachers and by placing each one of these in the type of position where he can do his best work. Each student in attendance at the University who desires a position should register with the Placement Service on the second floor of the Education Building. Superintendents and principals of schools desiring teachers should write to the Placement Service, College of Education, for the credentials of persons available.

#### EX-SERVICE MEN

Ex-service men, under the provisions of Kentucky Statutes, receive free tuition and room rent. This applies to the summer session as well as to regular sessions. It applies only to persons who were residents of Kentucky at the time of their enlistment. In order to receive the benefits of the law, such persons must file written application with the Registrar of the University at least thirty days prior to the opening of the summer session. Such application must be accompanied by the certificate of discharge.

#### RECREATION FOR SUMMER SESSION STUDENTS

The teachers of Kentucky should be acquainted with Lexington and with the historical Blue Grass country surrounding it. The public school children should know more about Henry Clay and his work, should know the story of the battle at Bryan's Station and how the women saved the day by marching out in a band to carry water back into the fort when they were besieged by Indians.

The teachers of Kentucky should see the picturesque capitol at Frankfort, only thirty miles from Lexington; should see the High Bridge across the Kentucky River, for many years the highest bridge in the world. They should see and know more about the beautiful stock farms of the Blue Grass, the home of the thoroughbred horses.

Lexington is connected with all the other cities of the Blue Grass region by interurban and motor bus lines, thus making it possible to get out into the country quickly, easily and at a small cost. The University is planning a series of trips for its summer school students in order to offer them the opportunity to become acquainted with the Blue Grass section and to learn to know its wealth of beauty and attractions.



## COLLEGE OF ARTS AND SCIENCES

PAUL P. BOYD, M. A., Ph. D., Dean

### ANATOMY AND PHYSIOLOGY

S 1a. GENERAL PHYSIOLOGY. This course 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. First term. Two credits. Associate Professor Allen.

S 1b. GENERAL PHYSIOLOGY. The course is a continuation of S 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. First term. Two credits. Associate Professor Allen.

S 105a. HUMAN OSTEOLOGY. The study begins with the development of the skeleton. This is followed by the process of ossification and the histology of bones. Each bone of the body is studied in detail, drawings are made from the bone. At intervals oral and written examinations are given. The notebook is carefully inspected and reasonably good drawings are required. The work may be amplified to most any extent and some comparative anatomy included. Recitation and laboratory work. First term. Three credits. Associate Professor Allen.

S 106a. ENDOCRINOLOGY. This is the study of the glands of internal secretions or endocrine glands. Each gland is introduced with the consideration of its anatomical location and structure, gross and microscopic. This is followed by a comprehensive study of its functions, including the normal activity, hyperactivity and hypoactivity. The foregoing are demonstrated to the class. Recent scientific articles bearing upon the subject are reviewed and discussed. The glands taken up in this course are the thyroid, parathyroids and suprarenals. Prerequisites for the course are: Physiology S 1a and S 1b or the equivalent; Zoology 107a and 107b; Chemistry 1a and 1b. Lectures, demonstrations and recitations. First term. Two credits. Associate Professor Allen.

S 106b. ENDOCRINOLOGY. Continuation of S 106a. The endocrine organs which are studied are the pituitary, pancreas, organs of reproduction, thymus and pineal. Lectures, demonstrations and recitations. First term. Two credits. Associate Professor Allen.



### ANCIENT LANGUAGES AND LITERATURE

S 150a. TEACHERS' COURSE IN LATIN; BASED ON FIRST YEAR WORK. A hasty review of Bennett's Beginners 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. First term. Two credits. Professor Jones.

S 150b. TEACHERS' COURSE IN LATIN; BASED ON THE SECOND YEAR WORK. This course will follow closely the recommendations of the Classical League Investigating Committee. A considerable amount of easy Latin will be read, taken from several authors. Discussion of Latin exhibits and other means of arousing interest in the work. Second term. Two credits. Professor Jones.

S 3. CICERO AND SALLUST. The four speeches of Cicero against Catiline will be read and, also, selections from Sallust's Catiline. A comparative study of the orator and the historian. Both terms. Two credits. Professor Jones.

S 4a. SELECTIONS FROM OVID AND VIRGIL. This has proven to be one of our most interesting Latin courses. Ovid gives us mythology at first hand and Virgil portrays the traditions and aspirations of the Romans. Both terms. Two credits. Professor Jones.

S 5. LIVY. Talks on foundation and development of the Roman State; the methods and aims of ancient writers of history as compared with those of today. Both terms. Two credits. Professor Jones. (If the students prefer, Horace may be selected instead of Livy.)

S 109. LATIN LITERATURE (SELECTIONS). The authors studied will be selected by the class. Primarily for graduates. Open also to qualified undergraduates. First term. Two credits. Professor Jones.

S 110. LATIN LITERATURE (SELECTIONS). This is a reading course and the authors selected will be such as are new to the members of the class. For graduates and for properly qualified undergraduates. Second term. Two credits. Professor Jones.

S 120. SURVEY OF GREEK CIVILIZATION. The course will begin with a brief study of Greek history. It will then take up Archaeology, Greek Private and Public Life. Open to juniors and seniors. Second term. Two credits. Professor Jones.

S 122. GREEK LITERATURE IN ENGLISH TRANSLATION. The course includes a study of epic, lyric, and dramatic poetry. We shall read and interpret several of the greatest Greek authors. Talks will be made upon the Greek genius and the ways in which it was made manifest. First term. Two credits. Professor Jones.

### ANTHROPOLOGY AND ARCHAEOLOGY

101. PRINCIPLES OF ANTHROPOLOGY. Lectures. First term. Two credits. Professor Funkhouser.



## ART

S 1a. DRAWING AND PAINTING. Expression by line, light and shade color. Drawing from objects, cast, still life. Perspective figure drawing, outdoor sketching. Mediums—charcoal, crayons, water color, oil. First term. Two credits. Assistant Professor Fisk.

2a. ART STRUCTURE. A study of the underlying principles of art through their applications, line, tone, color. Arrangements involving the use of good proportion, harmony, balance, rhythm, repetition, subordination, etc. Original design for textiles, mosaic, interior decorations, costume, etc. First term. Two credits. Miss Pride.

10. THE TEACHING OF ART IN PUBLIC SCHOOLS. A course designed for public school teachers who offer instruction in art education. First term. Two credits. Miss Pride.

S 71a. DRAWING AND PAINTING. The principal problem will consist of landscape painting. Expression by line, light and shade color. Drawing from objects, cast, still life. Perspective figure drawing, outdoor sketching. Mediums—charcoal, crayons, water color, oil. Second term. Three credits. Assistant Professor Fisk.

S 73a. DRAWING AND PAINTING. Landscape painting for more advanced students. Three credits. Second term. Assistant Professor Fisk.

## BACTERIOLOGY

8. BACTERIA IN RELATION TO MAN. An elementary course in bacteriology dealing in a general way with the relation of microorganisms to man and his environment. The development of the science of bacteriology; the role of microorganisms in the constructive and destructive processes in nature; the forms, structure and functions of microorganisms; the relation of microorganisms to industry; relation of microorganisms to disease. This course does not fulfill the requirements for advanced work in bacteriology. Second term. Two credits. Assistant Professor Weaver.

102. GENERAL BACTERIOLOGY. Morphology, classification, physiology, observation and cultivation of bacteria and related microorganisms; their relation to certain fermentations and to the preservation of food; their influence on the plant food in the soil. Microorganisms in milk, water, air, and soil. Relation of microorganisms to disease; sources and modes of infection; use of germicidal agents; theories of immunity. Prerequisite, Chemistry 1b. First term. Four credits. Professor Scherago.

201a. RESEARCH IN BACTERIOLOGY. First term. Five credits. Professor Scherago.

201b. RESEARCH IN BACTERIOLOGY. Second term. Five credits. Professor Weaver.



## BOTANY

1a. GENERAL BOTANY. This is the first semester's work of the general course in botany and involves a critical study of the lower forms of plant life, such as algae, fungi and the moss plants. Attention is given to the physiology, structure, method of reproduction and economic importance. First term. Four credits. Professor McFarland and Professor McInteer.

1b. GENERAL BOTANY. A continuation of Botany 1a and involves a detailed study of the ferns, fern allies and the seed plants. Considerable attention is given to methods of reproduction and course of development. Some account of heredity is given. Second term. Four credits. Professor McInteer.

3. PLANT PHYSIOLOGY. This course involves an intensive study of the functions of the living cell in its relation to its environment. Many experiments will be carried on to demonstrate the various functions. Prerequisites, Botany 1a, 1b; Chemistry 1a, 1b. Lecture and Rec. and Laboratory. First term. Four credits. Professor McInteer.

20. DENDROLOGY (TREE STUDY). This course is designed to give the student a thorough knowledge of the native and exotic trees of the State. Lectures will be given in the field when the weather permits. Practice in using various keys and the making of keys will be given during the course. Besides the regular lectures, two all-day field trips will be required. One of these trips will be to Natural Bridge and the other will be taken somewhere along the Kentucky River. No prerequisites. Both terms. Two credits. First term, Professor McFarland. Second term, Professor McInteer.

## CHEMISTRY

1a. GENERAL INORGANIC CHEMISTRY. Lectures, classroom and laboratory work. First term. Five credits. Assistant Professor Mitchell and Assistant.

1b. GENERAL INORGANIC CHEMISTRY. Continuation of Chemistry 1a. Chemistry of the metals. Lectures, classroom and laboratory work. Prerequisite, Chemistry 1a. Second term. Five credits. Assistant Professor Mitchell.

4. QUALITATIVE ANALYSIS. Laboratory work accompanied by recitation periods. Prerequisite, Chemistry 1b. First term. Four credits. Mr. Zimmerman.

7. ORGANIC CHEMISTRY. An elementary course for non-professional students. Prerequisite, Chemistry 1b. Both terms. Four credits. Associate Professor Barkenbus.

S 7. ORGANIC CHEMISTRY. An elementary course for non-professional students. Prerequisite, Chemistry 1b. First term. Five credits. Associate Professor Barkenbus.



8. QUANTITATIVE ANALYSIS. Prerequisite, Chemistry 4. Recitation and laboratory work. Both terms. Five credits. Associate Professor Bedford.

106. ADVANCED ORGANIC CHEMISTRY. Prerequisite, Chemistry 127b. Laboratory work. Both terms. Five credits. Associate Professor Barkenbus.

109. QUANTITATIVE ANALYSIS. Prerequisite, Chemistry 8. Recitation and laboratory work. Both terms. Five credits. Associate Professor Bedford.

114. ADVANCED QUANTITATIVE ANALYSIS. Lectures, class-room and laboratory work. Both terms. Five credits. Associate Professor Bedford.

127b. ORGANIC CHEMISTRY. Prerequisite, Chemistry 127a. Lectures and laboratory work. Second term. Five credits. Associate Professor Barkenbus.

131a. PHYSICAL CHEMISTRY. Recitation and laboratory work. First term. Four credits. Associate Professor Bedford.

131b. PHYSICAL CHEMISTRY. Prerequisite, Chemistry 131a. Lectures, recitations and laboratory work. Second term. Four credits. Associate Professor Bedford.

204a. ORGANIC CHEMISTRY. Prerequisite, Chemistry 106. Laboratory work. Either term. Five credits. Associate Professor Barkenbus.

204b. ORGANIC CHEMISTRY. Prerequisite, Chemistry 204a. Laboratory work. Either term. Five credits. Associate Professor Barkenbus.

#### ECONOMICS

1a. PRINCIPLES OF ECONOMICS. An examination of the fundamental principles of economics and the application of these principles to practical problems. Not open to freshmen. First term. Three credits. Mr. Rouse.

1b. PRINCIPLES OF ECONOMICS. Continuation of 1a. Not open to freshmen or commerce students. Second term. Three credits. Mr. Carter.

8. ECONOMIC GEOGRAPHY. 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. First term. Three credits. Professor Jennings.

9. FORMS OF BUSINESS ORGANIZATION. A study of business organization primarily from a social point of view. The course traces the origin and development of forms of business organization; treats the advantages and disadvantages of the various forms; includes a study of the trust or combination movement and its effects upon society. Prerequisite, course 1a. Three credits. First term. Mr. Lawrence.



12. ECONOMIC GEOGRAPHY OF NORTH AMERICA. A detailed study of the agricultural, mineral, lumber, fishery and other economic resources of North America. The emphasis is placed upon the resources of the United States, the various geographical sections being intensively studied, but Canada, Mexico, Central America and the West Indies are also studied in some detail. Three credits. Second term. Professor Jennings.

102. LABOR PROBLEMS. A study of the labor market in its industrial phases, including such directly related topics as immigration, unemployment, and labor organizations. Prerequisite, course 1a. Three credits. Second term. Mr. Carter.

104. PUBLIC FINANCE. A study of public receipts; public expenditures; the principles of taxation with special reference to their application to the tax systems, federal and state. Attention will be given to the current problems in taxation. Prerequisite, course 1a. Three credits. First term. Professor Martin.

105. MONEY AND BANKING. Nature and functions of money; the importance of credit; relation of money and credit to prices; bank deposits and loans; complete study of our national banking system and comparison with those of foreign countries. Prerequisite, course 1a. Three credits. Second term. Mr. Lawrence.

107. STATISTICAL METHOD. Training in the process of treating multiple phenomena with mathematical exactitude. The methods are illustrated with material from the fields of psychology, education, economics and sociology. An essential course for specialists in those fields. Not open to freshmen or sophomores. Three credits. Second term. Associate Professor Palmer.

125. ADVANCED ECONOMIC HISTORY OF EUROPE. This course is intended to serve as an economic background for students interested in European affairs. It discusses population, immigration, labor, agriculture, industry, and finance and the effects of the various lines of development upon national life. Not open to freshmen and sophomores nor to students who have had course 2 except when doing graduate work. Three credits. Second term. Professor Jennings.

134. ADVANCED ECONOMIC HISTORY OF THE UNITED STATES. This course is intended primarily as an economic background for social science students. It studies English colonial policy, population growth, immigration, territorial expansion, agriculture, manufactures, tariff, labor, industrial combination, commerce, transportation, facilities, money and banking, and conservation. Not open to freshmen and sophomores or to students who have had course 3 except when doing graduate work. Three credits. First term. Professor Jennings.

203. HISTORY OF ECONOMIC THOUGHT. This course is a survey of the history of economic thought from the ancient period to the present.



The relation of economic theory to general philosophic thought is noted. A more or less intensive study of capital, value and distribution, is made, beginning with the Classical School and carried forward to the more recent writers. Prerequisite, course 1a. Three credits. First term. Professor Wiest.

#### ENGLISH LANGUAGE AND LITERATURE

S 1a. ENGLISH COMPOSITION. Practice in writing correct and clear English. Accuracy of expression is desired rather than proficiency in style. A textbook will be used, but the instructions will be based upon the study of representative English masterpieces. Required of all freshmen. Both terms. Two credits. First term, Mr. Davis. Second term, Mr. Shannon.

S 1b. ENGLISH COMPOSITION. This course is a continuation of English 1a. Required of all freshmen. This course with English 1a is prerequisite to all other courses in English. Both terms. Two credits. First term, Mr. Davis. Second term, Mr. Shannon.

S 3a. HISTORY OF ENGLISH LITERATURE. This course is designed to give the student a general survey of English literature from the old English period to the present. Readings from selected masterpieces. Prerequisite, English 1a or 1b. Two credits. First term. Mr. Davis.

S 3b. HISTORY OF ENGLISH LITERATURE. This course is a continuation of course 3a. Both courses are prerequisite to all other courses in literature. Two credits. Second term. Mr. Shannon.

7a. ELEMENTS OF PUBLIC SPEAKING. Fundamentals of practical public speaking. Emphasis placed on clear, distinct speech, enunciation, pronunciation, voice and conversational delivery. Three credits. Second term. Assistant Professor Sutherland.

11a. DEBATE. Practice in direct oral argument. Methods of teaching debate, the coaching of debate teams, with particular reference to debate in the high school. Three credits. Second term. Assistant Professor Sutherland.

106. ENGLISH ROMANTICISM. This course traces the history of the romantic movement from its beginning to its culmination in the poets of the early nineteenth century. Attention given to Wordsworth, Coleridge, Byron, Shelley, Keats. Three credits. Second term. Associate Professor Brady.

111. THE ENGLISH NOVEL. A study of the development of the novel. Three credits. First term. Associate Professor Knight.

114a. AMERICAN LITERATURE. The literature of America is studied in its relation to national life and thought. The leading authors will be studied in class, while the minor writers will constitute parallel readings. Three credits. First term. Associate Professor Knight.

114b. AMERICAN LITERATURE. Three credits. Second term. Mr. Gallaway.



S 116. CONTEMPORARY DRAMA. A study of the drama from Ibsen. This course should be taken by those who contemplate taking the graduate course in Drama. Three credits. First term. Professor Farquhar.

120. PRONUNCIATION OF MODERN ENGLISH. A study of present-day pronunciation with a view to determine a standard of correct pronunciation. Three credits. First term. Professor Dantzler.

142. ENGLISH LITERATURE OF THE RENAISSANCE. A survey of the literature of the Elizabethan and Jacobean periods, exclusive of the drama. Attention will be given to the foreign sources of the English literary Renaissance. The sonnet will be studied in the origins in Petrarch to its development in Shakespeare and Spenser; the pastoral from Theocritus to Spenser; the Utopian literature from Plato to More; books of manners from Castiglioni to Eliot; the romances from *Aucassin and Nicolette* to Lodge's *Rosalind*. Three credits. Second term. Mr. Gallaway.

201a. LITERARY CRITICISM. A course for graduate students only. Students should have had the undergraduate course in Criticism—English 108a, 108b. Three credits. First term. Professor Farquhar.

207. SPENSER. A course for graduate students only. Three credits. First term. Professor Dantzler.

208. CARLYLE. A course for graduate students only. Three credits. Second term. Associate Professor Brady.

#### LIBRARY TRAINING

50. BOOK SELECTION. First term. Two credits. Miss King.

51. CATALOGING AND CLASSIFICATION FOR THE SCHOOL LIBRARY. First term. Two credits. Miss Wisely.

52. REFERENCE AND BIBLIOGRAPHY. First term. Two credits. Miss Wisely.

53. WORK WITH CHILDREN. First term. Two credits. Miss Harrington.

54. PLACE, FUNCTION, ADMINISTRATION, ETC., OF THE SCHOOL LIBRARY. First term. Two credits. Miss King.

126. METHODS OF TEACHING USE OF THE SCHOOL LIBRARY. First term. Two credits. Miss Harrington.

#### GEOLOGY

S 2a. ELEMENTARY GEOLOGY. A study of those forces and processes which determine the surface features of the earth, and which in the past have contributed to its present topography. Emphasis is placed on the application of an understanding of these processes to the interpretation of earth history. First term. Two credits. Professor McFarlan.



10. GEOLOGY OF KENTUCKY. An outline of the principal physiographic and geologic features of the State, including its geologic history and the origin and distribution of its mineral resources. First term. Two credits. No prerequisite but not open to freshmen. Professor McFarlan.

16a. MINERAL RESOURCES. An elementary study of the metallic mineral resources of the United States with respect to their origin, geologic occurrence, distribution, and uses. The course includes a short introduction to the geological principles involved in the formation of mineral deposits. First term. Two credits. No prerequisite but not open to freshmen. Assistant Professor Robinson.

S 18a. ELEMENTS OF GEOGRAPHY. An elementary study of the influence of physical environment on man. It is the purpose of the course to develop a conception of the various types of environment such as climate, land forms, soils, surface and ground waters, mineral resources, and native vegetation, and their influence on man. First term. Two credits. Assistant Professor Robinson.

118a. FIELD WORK IN REGIONAL GEOLOGY. Two weeks of field work studying the geologic features of portions of Virginia, North Carolina, and Tennessee. The party will travel by machine and camp out. Written report at close of trip. June 3-17. Two credits. Professor McFarlan and Assistant Professor Robinson.

#### GERMAN LANGUAGE AND LITERATURE

S 1a. ELEMENTARY GERMAN. Six hours a week. First term. Two credits. Professor Melcher.

S 1b. ELEMENTARY GERMAN. Six hours a week. First term. Two credits. Professor Melcher.

S 2a. INTERMEDIATE GERMAN. Six hours a week. First term. Two credits. Professor Melcher.

S 2b. INTERMEDIATE GERMAN. Six hours a week. First term. Two credits. Professor Melcher.

S 3a. COMPOSITION AND READING. Six hours a week. First term. Two credits. Professor Melcher.

S 3b. COMPOSITION AND READING. Six hours a week. First term. Two credits. Professor Melcher.

S 4a. ADVANCED READING AND COMPOSITION. Six hours a week. First term. Two credits. Professor Melcher.

S 6. SCIENTIFIC AND JOURNALISTIC GERMAN. Six hours a week. First term. Two credits. Professor Melcher.

Any of the above courses or new courses will be given the second term if the demand is sufficient.



## HISTORY

S 4a. INTRODUCTION TO MODERN EUROPE. The freshman course, based on Sellery and Krey. A rapid survey of conditions in Europe from the fall of the Empire to the Seventeenth Century. Two credits. First term. Mr. Landin.

S 4b. INTRODUCTION TO MODERN EUROPE. A continuation of course S 4a, treating European conditions since 1648, based on Schevill's History of Europe. Open to freshmen and others offering 4a or equivalent. Two credits. Second term. Mr. Landin.

S 10a. HISTORY OF THE AMERICAS. A survey of the history of North and South America, the founding and development of the colonial empires of Spain, Portugal, England, France and The Netherlands; the movements for independence in both continents in the 18th and early 19th centuries; the political, economic and social development of the United States and the greater Latin-American Republics; the colonial empires in America, and rise of the Americas in World politics. Lectures, texts, collateral reading and an essay. Recommended to all who intend to elect American History. Two credits. First term. Associate Professor Knapp.

S 10b. HISTORY OF THE AMERICAS. A continuation of Course 10a. Two credits. Second term. Associate Professor Knapp.

S 105. COLONIAL AMERICA. A study of the beginnings of the English colonies, the colonial background, political, social and economic development, extension of their frontiers, inter-colonial wars, and external relations with the Dutch, French and Spanish. Emphasis on imperial policies and imperial control and the controversies arising therefrom. Prerequisite, one year of American or English history in college. Two credits. First term. Associate Professor Knapp.

S 119a. THE FRENCH REVOLUTION AND NAPOLEON. Prerequisite, Course 4b, or equivalent. Two credits. Second term. Mr. Landin.

181. AMERICAN HISTORIOGRAPHY. A survey of the principal authorities and works in American history. One credit. Three hours weekly. Second term. Associate Professor Knapp.

220. ORIGINS OF THE GREAT WAR. An advanced course for graduates. Two credits. First term. Mr. Landin.

180. EUROPEAN HISTORIOGRAPHY. Based on Gooch, treating recent historians chiefly. Three hours weekly. One credit. Second term. Mr. Landin.

182a. HISTORICAL CRITICISM. Three hours weekly. One credit. First term. Mr. Landin.

182b. A continuation of Course 182a, devoted to constructive operations. Three hours weekly. Second term. One credit. Mr. Landin.

S 130a. HISTORY OF THE WEST, Prerequisite, Course 10b or equivalent. Two credits. First term. Associate Professor Knapp.



S 130b. HISTORY OF THE WEST. Prerequisites, 10b and 130a. Two credits. Second term. Associate Professor Knapp.

S170. ERA OF LOUIS XIV. Two credits. First term. Mr. Landin.

#### HYGIENE

HYGIENE 1. A non-technical lecture course covering the principle contributions to preventive medicine from the time of the introduction of the germ theory of disease to the present. The purpose of the course is to give the university student a basis for an intelligent attitude toward health both in relation to himself and his community. Both terms. 1.3 credits. Dr. Chambers, Dr. Pinney, and Mr. Heinz.

HYGIENE 105. ADVANCED HYGIENE. Prerequisite, Hygiene 1. A more detailed study with preparation of papers and reports covering the same ground as Hygiene 1. First term. Two credits. Dr. Chambers and Mr. Heinz.

HYGIENE 111. VITAL STATISTICS. Prerequisite, Hygiene 1. A course dealing with the purpose, history, development, and interpretation of vital statistics, with special emphasis on population, collection of vital statistics, general rates, specific rates, analysis of death rates, etc. Second term. Two credits. Dr. Pinney and Mr. Heinz.

HYGIENE 112. PUBLIC HEALTH ADMINISTRATION. Prerequisite, Hygiene 1. Lectures, discussions, and reports dealing with Public Health Laws, regulation, police power, and details of Federal, State and Municipal Health Administration and Organization. Second term. Two credits. Dr. Pinney and Mr. Heinz.

HYGIENE 115. EPIDEMIOLOGY. Prerequisite, Hygiene 1. Lectures, discussions, and reports dealing with the scope, theories, and practice of ancient and modern epidemiology. A study of the natural history of epidemic diseases, and causation, and development of epidemics. First term. Two credits. Dr. Chambers, Mr. Heinz.

#### JOURNALISM

S 2a. JOURNALISM. Feature writing. The study of the writing of special features for newspapers and magazines. First term. Two credits. Mr. Griffin.

S 2b. JOURNALISM. Advanced reporting. The study of specialized news-story writing with special emphasis on court reporting. First term. Two credits. Mr. Griffin.

(Note: Prerequisites to 2a and 2b are 1a and 1b.)

S 3a. JOURNALISM. Etymology. The study of words. First term. Two credits. Professor Grehan.

S 3b. JOURNALISM. Verbal criticism. The comparative study of words. First term. Two credits. Professor Grehan.

S 7. JOURNALISM. Community journalism. The study of the small city daily and the country (community) weekly. Second term. Two credits. Professor Portmann.



101. JOURNALISM. Supervision of high school publications. The study of the problems that confront the advisor for student publications in high schools. First term. Two credits. Open to advisors. Professor Portmann.

S 105. JOURNALISM. Law of the press. The study of the law of libel, copyright, etc., as concerns the press. Second term. Two credits. Professor Portmann.

S 108. JOURNALISM. History of journalism. The study of the history of journalism in the U. S. Second term. Two credits. Senior or graduate standing. Professor Portmann.

(Note: Prerequisites for courses numbered over 100 are Journalism 1a and 1b, and either 2a or 2b.)

#### MATHEMATICS

S 2. SOLID GEOMETRY. This is given primarily for engineering students who enter conditioned in solid geometry. It is a prerequisite for analytics. First and second terms. Two credits. First term, Assistant Professor South. Second term, Mr. Canaday.

S 4. PLANE TRIGONOMETRY. A thorough course in plane trigonometry supplemented by enough algebra to fill out a semester's work. For Arts and Sciences and Engineering students. Prerequisite, one and one-half units of entrance algebra. First term. Four credits. Professor Davis.

S 5. COLLEGE ALGEBRA. Elementary algebra is first reviewed in a way to give greater clearness as to assumptions, the number concept, and to introduce graphs and determinants. Following this, topics are taken up that will, together with those included in Mathematics 4, furnish the student with a fairly complete view of the subject. Prerequisite, one and one-half units of entrance algebra. Second term. Four credits. Mr. Canaday.

S 6. ANALYTIC GEOMETRY. A course in which particular emphasis is laid on the graphical representation of the various types of functions. The derivative is introduced as a tool for study. Prerequisites, Mathematics 2, 4 and 5. Both terms. Four credits. First term, Dean Boyd. Second term, Assistant Professor Brown.

S 7a. DIFFERENTIAL CALCULUS. A course covering most of the subjects as presented in the larger texts and including much drill work in the solution of problems. Some work in integration is done. Engineering students take this in the second semester of the sophomore year. Prerequisites, Mathematics 4, 5 and 6. Both terms. Four credits. First term, Associate Professor LeSturgeon. Second term, Professor Latimer.

S 7b. INTEGRAL CALCULUS. A continuation of 7a. Both terms. Two credits. First term, Professor Davis. Second term, Assistant Professor Brown.



S 14. MATHEMATICS OF FINANCE. First term. Four credits. Assistant Professor South.

\*S 105a. DIFFERENTIAL EQUATIONS. First term. Two credits. Associate Professor LeSturgeon.

\*S 106a. ADVANCED CALCULUS. First term. Two credits. Associate Professor LeSturgeon.

\*S 109. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE. First term. Two credits. Associate Professor LeSturgeon.

Note: Only one of the courses marked \* will be given 1st term.

\*\*S 119. MODERN GEOMETRY. First term. Two credits. Dean Boyd.

\*\*S 107. PROJECTIVE GEOMETRY. First term. Two credits. Dean Boyd.

\*\*S 103. THEORY OF EQUATIONS. First term. Two credits. Dean Boyd.

Note: Only one of the courses marked \*\* will be given 1st term.

†S 111. HIGHER ALGEBRA. Second term. Two credits. Professor Latimer.

† S 116. ANALYTIC MECHANICS. Second term. Two credits. Professor Latimer.

†S 207a. THEORY OF NUMBERS. Second term. Two credits. Professor Latimer.

Note: Only one of the courses marked † will be given 2nd term.

#### MUSIC

4a<sub>1</sub>. MATERIALS AND METHODS FOR PRIMARY GRADES. Open to Music Majors. Selection and presentation of rote songs; the child voice in singing and treatment of unmusical child; introduction of staff notation; directed listening. Two credits. Both terms. Miss Wilson.

4a<sub>2</sub>. MATERIALS AND METHODS FOR PRIMARY GRADES. Selection and presentation of rote songs; the child voice and its treatment; study of tonal and rhythmic groups; staff notation, directed listening. This course emphasizes the needs of the grade teacher. Two credits. First term. Miss Wilson.

4b. MATERIALS AND METHODS FOR THE INTERMEDIATE GRADES. Open to grade teachers. Further development of music reading, introducing the tonal and rhythmic problems common to Grades Four, Five and Six. Two credits. Second term. Miss Wilson.

9a. ORGANIZATION AND TRAINING OF MUSICAL GROUPS. Study of brass and wind instruments; the technic of instrumental organization. Two credits. First term. Mr. Sulzer.

9b. ORGANIZATION AND TRAINING OF MUSICAL GROUPS. Study of the stringed instruments and methods for the presentation of instrumental class instruction. Two credits. First term. Professor Lampert.



19a. HISTORY AND APPRECIATION. Study of the standard compositions, their form and composers. Three credits. First term. Professor Lampert.

21a. SIGHT READING. Singing of major and minor scales; intervals of the primary triads; simple two-part songs; syllablization of familiar tunes. One and one-half credits. First term. Miss Wilson.

21b. SIGHT READING. Continuation of 21A. One and one-half credits. Second term. Miss Wilson.

25a. ELEMENTARY HARMONY. A study of the primary triads; seventh and ninth chords; inversions; non-chordal tones; original melodies and harmonization. Two credits. First term. Professor Lampert.

25b. ELEMENTARY HARMONY. Continuation of 25a. Emphasis placed on secondary chords and inversions; modulation; original melodies and harmonization. Two credits. First term. Professor Lampert.

27a. EAR TRAINING. Aural recognition of tonal and rhythmic patterns when played or sung; memory drills. Two credits. First term. Miss Wilson.

27b. EAR TRAINING. Continuation of 27a. Two credits. Second term. Miss Wilson.

28a. MIXED CHORUS. This course affords the students of Summer School an opportunity to enlarge their repertoire and enrich their musical experience by participation in the rendition of standard vocal compositions. One-half credit. First term. Miss Wilson and Professor Lampert.

#### PHILOSOPHY

S 1a. ELEMENTARY PHILOSOPHY. The aim of this course is to give the student an introduction to the problems and methods of philosophy. This is done (a) by explaining as simply as possible how philosophy differs from science, art, and religion; (b) by discussing some of the chief problems of philosophy in the light of their historical development; and (c) by pointing out some of the chief contributions to philosophy in modern times. First term. Two credits. Associate Professor Kuiper.

S 103. ETHICS. This course attempts to explain the basis of such fundamental distinctions as right and wrong, good and evil, moral and immoral, etc. The origin and growth of these concepts as well as their present status will be carefully considered. First term. Two credits. Associate Professor Kuiper.

S 111a. CONTEMPORARY PHILOSOPHY. The purpose of this course is to study at first hand some of the main tendencies of contemporary thought. Pragmatism as represented by James and Dewey, Realism as



developed by Bertrand Russell and others, Evolutionism as found in Bergson and C. Lloyd Morgan, and the modern forms of Idealism will be critically studied and discussed. An introductory course in philosophy is a desirable prerequisite for this course; it may be elected without such preparation only with the consent of the instructor. First term. Two credits. Associate Professor Kuiper.

#### PHYSICAL EDUCATION

S 10. GAMES. Recreation and games for schools and playgrounds. First term. One credit. Professor Robinson.

S 21. CALISTHENICS AND SINGLE LINE MARCHING. This course covers the theory and practice of calisthenics, or free exercise. It covers specifically the significance of calisthenics; the methods of exercising; the principles underlying the daily lesson; the order of exercises; the technic of teaching; the outline of programs for the different gymnasium groups (grade school, high school and college); the nomenclature and arrangement of model lessons. First term. One credit. Professor Robinson.

#### PHYSICS

1a. GENERAL ELEMENTARY PHYSICS. For students who have had no previous training in physics. The course covers elementary theory of mechanics and heat. Lectures and recitations two hours daily. Laboratory six hours per week. First term. Five credits. Professor Webb, Associate Professor Koppius.

1b. GENERAL ELEMENTARY PHYSICS. Prerequisite, Physics 1a. A continuation of Physics 1a, covering electricity, sound and light. Lecture and recitation two hours daily. Laboratory six hours per week. Second term. Five credits. Associate Professor Koppius.

3a. GENERAL COLLEGE PHYSICS. Prerequisite, one year of high school Physics and Mathematics 2 and 3. Course covers mechanics, heat and wave motion with particular emphasis on the solution of problems. Lecture and recitation two hours daily. First term. Four credits. Professor States.

3b. GENERAL COLLEGE PHYSICS. Prerequisite, Physics 3a. A continuation of Physics 3a, covering electricity, sound and light. Lecture and demonstrations two hours daily. Second term. Four credits. Professor States.

S 5. MEASUREMENTS IN MECHANICS AND HEAT. Prerequisite, credit in or simultaneous study of Physics 3a. Lectures two hours per week. Laboratory eight hours per week. First term. Two credits. Professors Webb and States.

S 6. ELECTRICAL MEASUREMENTS. Prerequisite, Physics 3a and 5, and credit in or simultaneous study of Physics 3b. Lectures two hours



per week. Laboratory eight hours per week. Second term. Two credits. Professor States.

S 104a. THEORETICAL MECHANICS. Prerequisites, Physics 3a, and calculus. Lectures and recitations one hour daily. First term. Two credits. Associate Professor Koppius.

S 104b. THEORETICAL MECHANICS. Prerequisite, Physics 3a, and calculus. Lectures and recitations one hour daily. Second term. Two credits. Associate Professor Koppius.

S 217a. THEORETICAL PHYSICS. Prerequisites, Mathematics 105a, 105b. First term. One credit. Professor States.

S 217b. THEORETICAL PHYSICS. Continuation of 217a. One credit. Second term. Professor States.

S 223a. GENERAL PHYSICS. Prerequisites, 1 year of Elementary Physics and Mathematics 2 and 3. Course covers Mechanics, Heat and Wave Motion. This course limited to graduate students in the College of Education. Lectures and recitations 14 hours per week. Laboratory eight hours per week. First term. Six credits. Professors Webb and States.

S 223b. GENERAL PHYSICS. Prerequisites, Physics S 223a, a continuation of Physics 223a. Covers Electricity, Sound and Light. Limited to graduate students in College of Education. Lectures and recitation 14 hours per week. Laboratory eight hours per week. Second term. Six credits. Professor States.

#### POLITICAL SCIENCE

S 15a. PROBLEMS OF CITIZENSHIP. This course is designed especially for the introductory course in the field of Political Science, but will be found very helpful to students who do not have an opportunity to take courses in government. Some problems dealt with are the newspaper, the negro problem, capital and labor, socialism, international relations. First term. Two credits. Mr. Shannon.

S 15b. PROBLEMS OF CITIZENSHIP. A continuation of course S 15a. Second term. Two credits. Mr. Shannon.

S 101. LATIN AMERICAN RELATIONS. This course will be a brief survey of the political and economic relations of the United States and Latin American. Second term. Two credits. Doctor Walp.

S 152. MUNICIPAL GOVERNMENT. This course gives a brief sketch of the rise of city government. A study of the older forms of mayor and council as well as the commission and manager forms. Considerable attention will be given to city administration. First term. Two credits. Mr. Shannon.

S 153. CITY ADMINISTRATION. This course deals with the practical problems that face city administration. City planning, methods of administering municipal utilities, the administration of the police



and fire departments, municipal finance, and all other phases of the activity of city officials. Second term. Two credits. Mr. Shannon.

S 159a. THE DEVELOPMENT AND EXPANSION OF THE AMERICAN CONSTITUTION. In this course a study is made of the work of the constitutional convention and the installation of the government under the constitution, as well as the development of the body of constitutional law up to 1835. First term. Two credits.

S 160. FOREIGN SERVICE. This course deals with the organization and work of the state department and the diplomatic and consular service and its various ramifications. Second term. Two credits. Doctor Walp.

S 161. INTERNATIONAL RELATIONS. Deals with the agencies which are cooperative in drawing the nations of the world into closer association. The work of the International Postals Union, International Bureau and associations of agriculture, economics and banking, international boundary commissions, river commissions and transportation commissions, together with such agencies as the League of Nations, the World Court and the Hague Tribunal. Second term. Two credits. Doctor Walp.

S 165a. WORLD POLITICS. A study of the political maneuvers of the important nations of the world that led up to the world war. First term. Two credits. Mr. Shannon.

S 165b. WORLD POLITICS. A continuation of S 165a. Second term. Two credits. Mr. Shannon.

S 170. POLITICAL PARTIES. A study of the history and organization of the political parties in the United States, and their influence upon the operation of the government. First term. Two credits.

S 171. POLITICAL THEORY. This course deals with the general theories of the state and modern government with emphasis on the underlying basis of democracy. First term. Two credits.

#### PSYCHOLOGY

S 2a and b. GENERAL PSYCHOLOGY. A beginning course in psychology in which the fundamental laws and principles of human behavior are analyzed and studied. Recitations and demonstrations. First or second term. Four credits. Mr. Asher.

S 3. INDIVIDUAL DEVELOPMENT. A general orientation course in psychology, in which group discussion is emphasized. Topics which will be considered are: (1) Individual differences; (2) Sex differences; (3) Racial differences; (4) Personality; (5) Religion, morality and social control. An introductory course in psychology is prerequisite. First term. Two credits. Associate Professor Boynton.



S 7. **PSYCHOLOGY OF THE CHILD.** A study of the child in infancy, childhood and adolescence. Consideration of the problems of behavior arising during these periods and the ways of meeting them. The significance of individual differences in relation to native tendencies and training. An introductory course in psychology is a prerequisite. First term. Two credits. Mr. Asher.

S 104. **SOCIAL PSYCHOLOGY.** A study of the individual in his social group. Psychological analysis of social conditions which influence individual activity. Types of group behavior. An introductory course in psychology is prerequisite. First term. Two credits. Associate Professor Boynton.

108a. **HUMAN MEASUREMENTS.** Theories of intelligence with a study of individual and group tests of general mental ability. History and significance of the testing movement. Especially useful for teachers in understanding the literature on intelligence tests of school children and in the use of these tests in their own schools. An introductory course in psychology is prerequisite. First term. Two credits. Associate Professor Boynton.

109a. **DIAGNOSIS OF DEVELOPMENT.** A practice course in giving and scoring mental tests, together with the interpretation of test data. Particular emphasis is placed upon the Stanford Revision of the Binet-Simon tests. Prerequisite or concurrent, 108a, 108b, or 111. Two credits. First term. Associate Professor Boynton.

109b. **DIAGNOSIS OF DEVELOPMENT.** A continuation of 109a. The use of group and performance tests. Special reference to other factors than intelligence. Prerequisite or concurrent, 108a, 108b, or 111. Two credits. Second term. Associate Professor Boynton.

S 112. **PERSONNEL MANAGEMENT.** The influence of a personnel in business and education; motivation and guidance of individuals from the viewpoint of executives. An introductory course in psychology is prerequisite. Two credits. Second term. Mr. Asher.

S 114. **ABNORMAL PSYCHOLOGY.** A study of abnormal human behavior with an analysis of causes, treatment and social significance. Consideration will be given to special conditions such as feeble-mindedness, psychopathy, the insanities, dissociated or multiple personality, hypnotism and mental hygiene. Clinics at the State Institute for the Feeble-minded and the Eastern State Hospital. An introductory course in psychology is prerequisite. Second term. Two credits. Associate Professor Boynton.

S 115. **MEASUREMENTS OF HUMAN RELATIONSHIPS.** An advanced course which considers the treatment and interpretation of human measurements. The course deals with the computation of simple, partial and multiple correlations, regression equations, best methods of



scoring central tendencies and deviations are assumed. No one admitted except by consent of instructor. Two credits. Second term. Associate Professor Boynton.

S 116. COMPARATIVE PSYCHOLOGY. A study of certain fundamental principles and laws of general activity derived from an analysis of animal behavior. A history of the development of animal psychology with a review of its most important literature. Special attention will be given to the problem of how animals learn, together with its significance in the interpretation of human learning. An introductory course in psychology is prerequisite. Second term. Two credits. Associate Professor Boynton.

120a. INDEPENDENT WORK. A course designed especially for graduate students and for undergraduates with a special interest in psychology. Individual problems will be assigned in accordance with the interests of the students, and the work will be carried on independently by them with regular consultations. No one will be admitted except by consent of instructor. First term. Two credits. Associate Professor Boynton.

120b. INDEPENDENT WORK. A continuation of 120a. Second term. Two credits. Associate Professor Boynton.

#### ROMANCE LANGUAGES

S 1a. ELEMENTARY FRENCH. Open to freshmen. First term. Two credits. Assistant Professor Schick.

S 1b. ELEMENTARY FRENCH. Continuation of French 1a. Prerequisite, one year of high school French or French 1a. Both terms. Two credits. First term. Assistant Professor Schick. Second term. Assistant Professor Holmes.

S 2b. INTERMEDIATE FRENCH. Continuation of French 2a. Both terms. Two credits. First term. Assistant Professor Schick. Second term. Assistant Professor Holmes.

S 5a. ELEMENTARY SPANISH. A course in Spanish for beginners. Both terms. Two credits. First term. Assistant Professor Server.

S 5b. ELEMENTARY SPANISH. A continuation of Spanish 5a. Prerequisite, one year of high school Spanish or Spanish 5a. Second term. Two credits. Assistant Professor Holmes.

S 7b. INTERMEDIATE SPANISH. A continuation of Spanish 7a. Both terms. Two credits. First term. Assistant Professor Server. Second term. Assistant Professor Holmes.

S 112a. SPANISH LITERATURE OF THE NINETEENTH CENTURY. First term. Two credits. Assistant Professor Server.

S 114a. INDEPENDENT WORK. First term. Two credits. Assistant Professor Schick.



## SOCIOLOGY

1b. PRINCIPLES OF SOCIOLOGY (second part). An examination of certain practical, concrete social problems, such as the family, child welfare, recreational values, community organization, social implication of industrial development, etc. First term. Three credits. Professor Best.

103. CRIMINOLOGY. A study of crime and delinquency, and of means of punishment, reform, and prevention. First term. Three credits. Professor Best.

107. COMMUNITY WELFARE WORK. Not open to freshmen. Prerequisite or concurrent courses, 1a or 1b, and one of the following courses: 101, 102, 103, 104, 109, 112, 113. Three credits. Second term. Mr. Beehler.

108. COMMUNITY SURVEYS. Not open to freshmen. Prerequisite or concurrent courses, 1a or 1b, and one of the following: 101, 102, 103, 104, 109, 110, 112, 113. Three credits. Second term. Mr. Beehler.

## ZOOLOGY

1a. GENERAL ZOOLOGY. Recitations and laboratory. First term. Four credits. Professor Brauer.

1b. GENERAL ZOOLOGY. Recitations and laboratory. Second term. Four credits. Professor Brauer.

3a. GENERAL ENTOMOLOGY. Recitations and laboratory. First term. Three credits. Professor Allen.

101. PRINCIPLES OF ANTHROPOLOGY. Lectures. First term. Two credits. Professor Funkhouser.

102. ORNITHOLOGY. Lectures and field work. First term. Three credits. Associate Professor Allen.

106. EMBRYOLOGY. Lectures and laboratory. First term. Two credits. Professor Brauer.

108a. PRINCIPLES OF ZOOLOGY (EVOLUTION). Lectures. First term. Two credits. Professor Funkhouser.

110. INDIVIDUAL WORK. Laboratory research. Both terms. Two credits per term. Professors Funkhouser, Allen and Brauer.



## COLLEGE OF AGRICULTURE

THOMAS P. COOPER, B. S. in Agr., Dean and Director

### ANIMAL INDUSTRY

20. PRINCIPLES OF ANIMAL NUTRITION. This course is designated to give a student the fundamental principles involved in the digestion, absorption, and assimilation of feeds by domestic animals. A study is made of the uses of the different nutrients to the animal. An extended study is made of feeds, rations and their nutritive ratios. The practical aspects of feeding various kinds of live stock are emphasized. Prerequisites, Chemistry 1a and 1b. Three credits. Second term. Associate Professor Wilford.

106. PORK PRODUCTION. A study is made of the general management and feeding of all classes of swine, supplemented with judging and practical laboratory exercises. Three credits. Second term. Associate Professor Wilford.

107. SHEEP PRODUCTION. A study is made of the history and development of the sheep industry, the breeds of sheep and the care and management of the farm flock. The wool industry is studied from the standpoint of the producer. A small part of the course is devoted to a study of range sheep production. Three credits. First term. Associate Professor Horlacher.

113. LIVE STOCK JUDGING. An elective course in which the student is given training in the judging of beef cattle, draft horses, sheep and hogs. It must be preceded by Animal Industry 17 and 21. It is designed to give training in judging to those students who intend to compete for the judging team or who are planning to go into county agent work or teach agriculture in high schools. Two credits. First term. Assistant Professor Harris.

119. GENETICS. The purpose of Genetics is to acquaint the student with the laws of heredity. This is done by a study of variation, a study of the chromosomes and chromosome content, a study of hybridization, a study of the theory of the gene and a study of the methods by which the laws of genetics may be applied to human conservation. Three credits. First term. Professor Anderson.

120. SYSTEMS OF LIVE STOCK PRODUCTION. This is a general course dealing with the systems of live stock production followed in the different countries of the world and is designed to give the student a broad view of the live stock industry. Three credits. First term. Associate Professor Horlacher.

121. ADVANCED GENETICS. This course deals with the more complex problems of heredity such as linkage, crossing-over, the theory of the gene and the more extensive study of the means by which genetics may be applied to human conservation. Opportunity is also offered in this course for the students to become acquainted with the current literature bearing upon genetics and eugenics. Three credits. First term. Professor Anderson.

125. DAIRY CATTLE FEEDING AND MANAGEMENT. Three credits. First term. Professor Ely.



## HORTICULTURE

103. APPLE PRODUCTION. A course dealing with the theory and practice of commercial apple growing. Adaptation, soil relations, fruitfulness and orchard management problems are studied in detail. Three credits. First term. Mr. Waltman.

## HOME ECONOMICS

4. DIETETICS. A study of daily food requirements of human beings at different age levels, emphasis being given to satisfying the divergent needs of families and other groups. Practice is given in normal dietaries for the different ages and different groups. Given alternate summers. Prerequisites, H. E. 3, Physiology 3, H. E. 6b. Four credits. First term. Miss Foster.

6a. FOODS. An introduction to the study of food. The course includes preparation with experimental studies to develop the reasons for methods used and explanation of changes which take place. Given alternate summers. Prerequisite, Chemistry 1a. Three credits. First term. Miss Barkley.

29. COSTUME DESIGN. The application of art principles to clothing. A study is made of historic costume as a basis for modern dress; analysis is made of individuals as to size, age and personal coloring with selection of lines, colors and textures to meet their needs. Prerequisite, Art 2b, H. E. 26, H. E. 30. Three credits. First term. Miss Wade.

30. ELEMENTARY CLOTHING CONSTRUCTION. Study of fundamental construction processes. The course includes pattern adaptation; selection, use and care of clothing. Instruction is given in the use of the sewing machine and its labor-saving devices. Underwear, smocks and simple dresses are made. Cotton is the medium used. Given alternate summers. Three credits. First term. Miss Barkley.

115. CHILD CARE AND TRAINING. The physical and mental development of the child to the pre-school period. Includes study of problems of prenatal life and infancy, habit formation, general care and hygiene. Observation and practice with a small group of children of pre-school age. Prerequisites: Child Psychology 7, Nutrition Home Economics 3. Three credits. First term. Miss Wilson.

116. ADVANCED COSTUME DESIGN. History of costumes. A survey of costumes from ancient to modern times, showing political, religious, and industrial influences in design, and furnishing opportunity to create new designs applicable to modern needs. Study of Egyptian, Greek, Roman, French 18th and 19th Century Costumes. Three credits. First term. Miss Wade.

144. ADVANCED HOME MANAGEMENT. Open to seniors and advanced students. A lecture course affording opportunity for special study in family relationships. The social and economic problems of the home are stressed. Prerequisite, H. E. 42. Three credits. First term. Miss Foster.



## COLLEGE OF ENGINEERING

F. PAUL ANDERSON, M. E., Dean

### CIVIL ENGINEERING

21. **HYDRAULICS.** This course consists of textbook exercises together with the solution of numerous problems covering the principles of hydrostatics and hydrodynamic pressure; the flow of water through orifices, nozzles, over weirs and through pipes and open channels; also the loss from friction and other sources. Prerequisites, Physics 3a, Mathematics 7a. Both terms. Two credits. Professor Johnson.

74. **STRUCTURAL DESIGN.** Calculation of stresses by Graphic Statics and the design of a roof truss. First semester. One and three-tenths credits. Professor Jett.

### DRAWING

1a. **MECHANICAL DRAWING.** (a) Freehand lettering; (b) exercises in the use of instruments; (c) projection from pictorial views and description; (d) exercises in tinting and shading; (e) tracing; (f) blue printing. First term. Two credits. Associate Professor Horine.

1b. **MECHANICAL DRAWING.** Continuation of Drawing 1a. First term. Two credits. Associate Professor Horine.

S 3. **DESCRIPTIVE GEOMETRY.** This work includes, first, the discussion of descriptive geometry as a branch of pure mathematics; later comes a consideration of the application of descriptive geometry principles as an aid to engineering drawing. The lectures and recitations are supplemented by work in the drawing room. Prerequisite, Mathematics 2. First term. Four credits. Associate Professor Horine.

4a. **ADVANCED DRAWING.** (a) Working drawings of parts of machines and complete machines, both detail and assembly; (b) technical sketching; (c) plotting of surveys. Prerequisite, Drawing 1b (Drawing 3 must have been completed or taken at the same time). First term. Two credits. Associate Professor Horine.

4b. **ADVANCED DRAWING.** Continuation of Drawing 4a. First term. Two credits. Associate Professor Horine.

### ELECTRICAL ENGINEERING

S 1. **ELEMENTS OF ELECTRICAL ENGINEERING.** A study of the fundamental laws of electrical engineering and of direct current generators, motors and other apparatus. First term. Two credits. Professor Freeman.



2. DIRECT CURRENT DYNAMOS. A detailed study of the principles and of the construction of direct current generators and motors. Prerequisite, Electrical Engineering 1. Both terms. Two credits. Professor Bureau.

S 3. ALTERNATING CURRENTS. This work involves a study of the fundamental laws of alternating currents and of alternating current measuring instruments, generators, motors, transformers and converters. Prerequisite, Electrical Engineering 1. Both terms. Two credits. Professor Freeman.

S 7. DYNAMO DESIGN. Includes all calculations necessary in the design of a direct current generator or motor together with a complete set of drawings. Electrical Engineering 2 must be taken at the same time. Both terms. Two credits. Professor Bureau.

9a. ELECTRICAL LABORATORY. A series of experiments with direct current apparatus. This course should be taken at the same time as Electrical Engineering S1. First term. One credit. Assistant Professor Barnett.

9b. ELECTRICAL LABORATORY. This is a continuation of course 9a and is intended to parallel course 3. Prerequisite, Electrical Engineering 9a. Electrical Engineering 3 must have been completed or be taken at the same time. Both terms. One credit. Assistant Professor Barnett.

#### ENGINEERING MECHANICS

S 1. MECHANICS OF MATERIALS. A study of the laws governing the action of different materials of construction under the action of forces. Beams, columns, shafts and plates are analyzed with reference to their resistance and deformation when subjected to strains. Prerequisites, Mathematics 7a and Physics 3a. First term. Four credits. Professor Johnson.

2. TESTING OF MATERIALS. In the testing of materials laboratory experiments are conducted to verify the laws governing materials under stress and to establish the principles of the mechanics of materials. Experimental investigation of woods, iron, cements and bricks in their various forms are made with a view of impressing the students with the factors entering into the use of such materials in engineering construction. Mechanics of Engineering 1 must have been completed or be taken at the same time. Second term. One credit. Professor Johnson.

S3. KINEMATICS. A study of link motions, gears, cams, communication of motion by sliding and rolling contact, etc. First term. Two credits. Professor Jett.

S 4. KINEMATIC DESIGN. Designs of mechanisms and machine parts, particular attention being paid to training students in the drawing room practice existing in an up-to-date machine building establish-



ment. Prerequisites, Drawing 4b. Engineering Mechanics 3 must have been completed or taken at the same time. First term. Four credits. Professor Jett.

5. SLIDE RULE PRACTICE. Intended to familiarize the students with the theory and use of the slide rule. First term. One credit. Professor Jett.

S 6. ANALYTICAL MECHANICS. This subject is given with a view of encouraging original analysis, logical proofs and rational conclusions with respect to the treatment of equilibrium and motion of bodies under the action of forces. Prerequisites, Mathematics 7a and Physics 3a. Both terms. Four credits. Professor Johnson.

S 7. MACHINE DESIGN. Beginning with the design of simple machine parts this course extends into the design of more complicated elements, requiring some knowledge of the strength and rigidity of materials. The course is a continuation of Engineering Mechanics 4. The course terminates in the design of a complete machine. First term. Two credits. Professor Jett.

#### MECHANICAL ENGINEERING

S 8. STEAM LABORATORY. This course includes a study of the apparatus used in connection with the steam engine. The experiments are intended to familiarize the student with the simple methods of measuring heat units and determining mechanical power. Prerequisites, Physics 5, Chemistry 1b and Mathematics 7a. Both terms. One credit. Mr. Watkins.

12. AUTOMOTIVE ENGINEERING. A study of the theory and operation of the more popular makes of cars. First term. Two credits. Mr. Singer.

#### PRACTICAL MECHANICS

S 7a. WOOD SHOP. This course covers bench-work, wood turning and pattern making. First term. Two credits. Assistant professor Dicker and others.

S 7b. WOOD SHOP. A continuation of course 7a. First term. Two credits. Assistant Professor Dicker and others.

8a. FORGE, MACHINE AND AUTOMOBILE SHOPS. Prerequisite, Practical Mechanics 7b. First term. Two credits. Mr. Thurman and others.

8b. FORGE MACHINE AND AUTOMOBILE SHOPS. This is a continuation of course 8a. First term. Two credits. Mr. Thurman and others.



COLLEGE OF LAW

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

FIRST YEAR SUBJECTS

Criminal Law (both terms) .....Professor Moreland  
Introduction to The Study of Law (first term) .....Professor Ragland  
Personal Property (second term) .....Professor Evans

SECOND AND THIRD YEAR SUBJECTS

Mortgages (first term) .....Professor Evans  
Evidence (both terms) .....Professor Randall  
Sales (first term) .....Professor Chalkley  
Bankruptcy (second term) .....Professor Ragland  
Municipal Corporations (second term) .....Professor Chalkley



## COLLEGE OF EDUCATION

WILLIAM S. TAYLOR, Ph. D., Dean

### ADMINISTRATION

S 101. SCHOOL ORGANIZATION. An elementary course in the field of administration treated from the viewpoint of the teacher. First term. Two credits. Mr. Holloway.

103. THE ELEMENTARY SCHOOL. This course presents the administrative and supervisory problems of the modern elementary school. It is intended particularly for two groups: (1) Superintendents and supervisors, actual or prospective, who need or want a better understanding of the modern elementary school; (2) elementary school principals, actual or prospective, who need or want a broader and enriched conception of the modern elementary school.

Scheduling, office duties, and supervisory duties of the principal, pupil activities, curriculum construction, fundamental philosophy of the elementary school, state standardization of elementary schools, recent findings of research in elementary school subjects, and modern procedures in administering the elementary school are among the topics considered. The viewpoint is that of the administrator. Both terms. Three credits. Professor Hill.

125. THE SUPERVISION OF INSTRUCTION. This course has been designed especially for teachers who are preparing for work in supervision or who desire a better understanding of the relationship between teacher and supervisor, and for supervisors and principals who are interested in a more thorough understanding of the fundamental principles that underlie the supervision of instruction in the elementary schools. Both terms. Three credits. Mr. Whitehead.

190a. TECHNIQUE OF THE REGISTRAR'S OFFICE. First term. Two credits. Professor Gillis.

190b. TECHNIQUE OF THE REGISTRAR'S OFFICE. Second term. Two credits. Professor Gillis.

202. CITY SCHOOL ADMINISTRATION. Second term. Three credits. Professor Hill.

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

S 213. STATE AND COUNTY SCHOOL ADMINISTRATION. First term. Two credits. Mr. Holloway.



231. FINANCING PUBLIC EDUCATION. A critical study of the problems of financing public education with emphasis on modern school accounting. First term. Three credits. Professor Hill.

S 232. HIGH SCHOOL ADMINISTRATION. A course in the organization and management of high schools, with particular reference to Kentucky high schools. Both terms. Two credits. Professor Ligon.

210. SPECIAL PROBLEMS IN SCHOOL ADMINISTRATION. Both terms. Three credits. Professor Hill.

#### AGRICULTURAL EDUCATION

S 280. METHODS OF TEACHING VOCATIONAL AGRICULTURE. This course attempts to apply the principles of method to the teaching of vocational agriculture. It is designed for men with experience in teaching. First term. Two credits. Associate Professor Woods.

S 287. ADVANCED PROBLEMS IN AGRICULTURAL EDUCATION. The specific problems considered vary according to the needs of the group. First term. Two credits. Associate Professor Woods.

#### COMMERCIAL EDUCATION

EDUCATION 158. METHODS OF TEACHING COMMERCIAL SUBJECTS IN THE SECONDARY SCHOOL. This course deals with the problems of the commercial teacher in the class room and should be of interest to those who have had experience as well as those who expect to teach commercial subjects for the first time. The major portion of the time will be given to methods of teaching bookkeeping, shorthand, and typewriting but some time will be given business law, salesmanship, business arithmetic, economics, commercial geography, business English, business organization and other subjects usually offered in the high school. Problems of assignments, grading, questioning, testing, discipline, and placement and follow-up of students will be included. Prerequisite, a knowledge of bookkeeping, shorthand, and typewriting. Three credits. First term. Mr. Lawrence.

EDUCATION 159. THE COMMERCIAL CURRICULUM IN THE SECONDARY SCHOOL. This course should be of interest to commercial teachers, heads of commercial departments, high school principals and others who have supervision of commercial subjects in the secondary school. An attempt will be made to set up objectives for each subject as bases for determining the content of the commercial curriculum. The aims of commercial education, its development in the public school field, its relation to the broader aims of education as a whole, and methods of analysis in various occupations will receive attention. Prerequisite, experience teaching commercial subjects or senior standing. Three credits. Second term. Mr. Lawrence.



### EDUCATIONAL PSYCHOLOGY

S 16. EDUCATIONAL PSYCHOLOGY. A discussion of the learning process from the experimental and scientific points of view. Both terms. Two credits. First term. Professor Patrick. Second term. Professor Ross.

122a. EDUCATIONAL TESTS AND MEASUREMENTS. A course in the theory and practice of measuring educational products and processes. Both terms. Two credits. Professor Ross.

122b. EDUCATIONAL TESTS AND MEASUREMENTS. A continuation of 122a. Both terms. Two credits. Professor Ross.

S 223. STATISTICAL METHODS IN EDUCATION. A course in statistics. This course deals with statistics in their relation to education. Designed primarily to aid students in statistical procedure in education. Both terms. Two credits. Professor Ross.

### ELEMENTARY EDUCATION

S 136. TEACHING READING IN THE ELEMENTARY SCHOOL. It is the purpose of this course to give the student a comprehensive knowledge of the literature on the teaching of reading with a practical application of the principles derived from psychology and research. Discussion of aims, primary reading, activities leading to reading, reading in the intermediate grades, oral and silent reading, phonics and word study, diagnostic and remedial work, means of testing, and suitable materials for each grade. Two credits. Both terms. Mrs. Duncan.

37. TEACHING SPELLING, WRITING AND LANGUAGE IN THE ELEMENTARY GRADES. This course is planned to help the student apply psychological principles and results of research to the teaching of spelling and writing. Oral and written composition, methods and motivation from a modern standpoint. Two credits. Both terms. Miss Moore.

44. TEACHING THE SOCIAL SCIENCES IN THE PRIMARY GRADES. Methods, materials and content for Grades I, II, III. Units of work based on home and community life. Special attention to home geography—to enlarge the child's experience and stimulate his observation and curiosity concerning the social and physical world around him. Some study of man's use of raw materials in providing food, clothing, shelter and tools. Comparison between primitive and modern life. The history phase is provided for in the study of primitive life and observation of special holidays. Both terms. Two credits. Miss Moore.

40. TEACHING OF SOCIAL SCIENCE IN THE UPPER GRADES. Methods, materials and content for Grades IV, V, VI. A discussion of the unit plan for teaching the social sciences and analysis of some of the courses built on this plan. This is followed by a study of the best methods of teaching history and geography as separate subjects. Two credits. Both terms. Miss Moore.



42. TEACHING ARITHMETIC IN THE ELEMENTARY SCHOOL. A study of children's interests in, and needs for arithmetic. Evaluation of practices and materials; organization of subject matter; activities involving arithmetic, drill, problem solving, diagnosis and remedial instruction, and testing. Two credits. Both terms. Mrs. Duncan.

S 143. TEACHING LITERATURE TO CHILDREN. A study of the literature for children from Kindergarten to Grade VIII. Readings from and discussion of Mother Goose, fairy tales, modern fantastic tales, poetry, realistic stories, biography, myths and legends. Children's interest at different ages and stages of development. Story telling and dramatization. Two credits. Both terms. Mrs. Duncan.

#### HISTORY OF EDUCATION

S 10a. MORAL AND ESTHETIC EDUCATION. History and appreciation of painting from the early renaissance to the present time. A course planned primarily for teachers. Second term. Two credits. Professor Noe.

S 10b. An appreciation of architecture and sculpture for teachers. First term. Two credits. Professor Noe.

S 117a. HISTORY OF EDUCATION. This course is a survey of the history of education from Greece to the beginning of education in America. First term. Two credits. Professor Noe.

S 117b. HISTORY OF EDUCATION. A survey of the history of education from the beginning in America to the present time. Second term. Two credits. Professor Blackwell.

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

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

S 220. COMPARATIVE EDUCATION. A course giving comparisons of systems of education. Second term. Two credits. Professor Noe.

#### HOME ECONOMICS EDUCATION

160. TECHNIQUE OF TEACHING HOME ECONOMICS. A course dealing with objectives and methods of teaching home economics in secondary schools. Graduate and undergraduate credit. First term. Three credits. Miss Spickard.



163. CURRENT PROBLEMS IN HOME ECONOMICS EDUCATION. A study of some of the recent developments in objective tests, home projects, personality development, clubs, reference material, and other problems connected with home making education. Graduate and undergraduate credit. First term. Three credits. Miss Spickard.

164. METHODS OF TEACHING CHILD CARE. A course dealing with methods of teaching child care and training in high school. There will be a group of children of pre school age to observe, and those taking the course will sometimes assist with the laboratory work. Graduate and undergraduate credit. First term. Three credits. Miss Parker.

165. PROBLEMS IN VOCATIONAL HOME ECONOMICS EDUCATION. A professional course dealing with aims, methods and contemporary secondary educational theories and practices. Designed for those already engaged in teaching home economics. First term. Three credits. Miss Parker.

#### PHILOSOPHY OF EDUCATION

19c. MODERN EDUCATION PROBLEMS. This course will be an intensive short course devoted to the problems of the parent-teacher association. It will be conducted under the auspices of the National Congress of Parents and Teachers in cooperation with Kentucky Parent-Teachers Association and the University of Kentucky. First term. One credit. Mr. McCoy.

114a. EDUCATIONAL SOCIOLOGY. A study of the development of the social mind with special reference to education. First term. Two credits. Professor Patrick.

114b. EDUCATIONAL SOCIOLOGY. A continuation of Education 114a. Second term. Two credits. Mr. Blackwell.

140a. PHILOSOPHY OF EDUCATION. An integrating course in modern educational philosophy conducted on the discussion plan. Particularly valuable for principals and superintendents. First term. Two credits. Professor Patrick.

140b. PHILOSOPHY OF EDUCATION. A continuation of Education 140a. Second term. Two credits. Mr. Blackwell.

200. ADVANCED COURSE IN PHILOSOPHY OF EDUCATION. Second term. Three credits. Professor Adams.

205. REVIEW OF EDUCATIONAL LITERATURE. First term. Three credits. Professor Adams.

S 222a. THESIS COURSE. First term. Two credits. Dean Taylor.

S 222b. THESIS COURSE. Second term. Two credits. Dean Taylor.

227b. PRINCIPLES OF CURRICULUM CONSTRUCTION. A critical study of the content of the curriculum and of the principles which should guide us in curriculum building. First term. Three credits. Professor Adams.



230. ADVANCED COURSE IN EDUCATIONAL SOCIOLOGY. Second term. Three credits. Professor Adams.

#### SECONDARY EDUCATION

105. THE TECHNIQUE OF TEACHING. This course deals with methods of teaching in the high school. Motivation and the project method will be given special attention. Both terms. Three credits. Professor Ligon.

106. DIRECTED TEACHING. Both terms. Three credits. Dean Taylor.

226. THE JUNIOR HIGH SCHOOL. This is a course designed to give to school administrators in general the plans underlying junior high school organization, the development of junior high schools in the United States, and their place in the public school program of the State. Both terms. Three credits. Professor Whitehead.

129. MATHEMATICS IN THE HIGH SCHOOL. First term. Two credits. Mr. Mitchell.

135. THE SOCIAL SCIENCES IN THE HIGH SCHOOL. A course dealing with the organization of the material in history, elementary sociology and government to be offered on the secondary level. Special attention will be given to the objectives of each subject and methods of realizing desired ends. Second term. Two credits. Mr. Holloway.

149. EXTRA-CURRICULAR ACTIVITIES. This course has been planned to meet the needs of principals and teachers in secondary schools who administer and direct these activities in junior and senior high schools. The course will cover the underlying principles of home-room organization, the student council, assembly, clubs, dramatics, handbooks, honor societies, annuals, etc. The offices of the dean of men and of the dean of women will be considered. Both terms. Two credits. Mr. Holloway.

S 250. THE SENIOR HIGH SCHOOL. This course is designed to give to school administrators and to instructors who plan to be high school principals a knowledge of the organization of the senior high school, the problems that arise in its administration, with particular emphasis upon such problems as the purpose of the home-work, extra curricular activities in the senior high school, records and reports to be kept, and objectives of high school instruction. Second term. Two credits. Mr. Holloway.



## COLLEGE OF COMMERCE

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

1a. PRINCIPLES OF ECONOMICS. An examination of the fundamental principles of economics and the application of these principles to practical problems. Not open to freshmen. First term. Three credits. Mr. Rouse.

1b. PRINCIPLES OF ECONOMICS. Continuation of 1a. Not open to freshmen or commerce students. Second term. Three credits. Assistant Professor Carter.

8. ECONOMIC GEOGRAPHY. 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. First term. Three Credits. Professor Jennings.

9. FORMS OF BUSINESS ORGANIZATION. A study of business organization primarily from a social point of view. The course traces the origin and development of forms of business organization; treats the advantages and disadvantages of the various forms; includes a study of the trust or combination movement and its effects upon society. Prerequisite, course 1a. Three credits. First term. Mr. Lawrence.

12. ECONOMIC GEOGRAPHY OF NORTH AMERICA. A detailed study of the agricultural, mineral, lumber, fishery and other economic resources of North America. The emphasis is placed upon the resources of the United States, the various geographical sections being intensively studied, but Canada, Mexico, Central America and the West Indies are also studied in some detail. Three credits. Second term. Professor Jennings.

102. LABOR PROBLEMS. A study of the labor market in its industrial phases, including such directly related topics as immigration, unemployment, and labor organizations. Prerequisite, course 1a. Three credits. Second term. Assistant Professor Carter.

104. PUBLIC FINANCE. A study of public receipts; public expenditures; the principles of taxation with special reference to their application to the tax systems, federal and state. Attention will be given to the current problems in taxation. Prerequisite, course 1a. Three credits. First term. Professor Martin.

105. MONEY AND BANKING. Nature and Functions of Money; the importance of credit; relation of money and credit to prices; bank deposits and loans; complete study of our national banking system and comparison with those of foreign countries. Prerequisite, course 1a. Three credits. Second term. Mr. Lawrence.



107. STATISTICAL METHOD. Training in the process of treating multiple phenomena with mathematical exactitude. The methods are illustrated with material from the fields of psychology, education, economics and sociology. An essential course for specialists in those fields. Not open to freshmen or sophomores. Three credits. Second term. Associate Professor Palmer.

108. INSURANCE. Fundamental aspects of insurance; principles and their main application; nature of the contract; policies and premiums; life, casualty, health, fire, marine and other hazards. Prerequisite, course 1a. Three credits. First term. Associate Professor Palmer.

109a. BUSINESS LAW. A course designed to fill the need for an elementary training in business law. It includes a survey of the principles of contracts, sales, bills and notes, and that portion of the law of torts applicable to business practices. Three credits. First term. Mr. Rouse.

125. ADVANCED ECONOMIC HISTORY OF EUROPE. This course is intended to serve as an economic background for students interested in European affairs. It discusses population, immigration, labor, agriculture, industry, and finance, and the effects of the various lines of development upon national life. Not open to freshmen and sophomores nor to students who have had course 2 except when doing graduate work. Three credits. Second term. Professor Jennings.

134. ADVANCED ECONOMIC HISTORY OF THE UNITED STATES. This course is intended primarily as an economic background for social science students. It studies English colonial policy, population growth, immigration, territorial expansion, agriculture, manufactures, tariff, labor, industrial combinations, commerce, transportation facilities, money and banking, and conservation. Not open to freshmen and sophomores nor to students who have had course 3 except when doing graduate work. Three credits. First term. Professor Jennings.

203. HISTORY OF ECONOMIC THOUGHT. This course is a survey of the history of economic thought from the ancient period to the present. The relation of economic theory to general philosophic thought is noted. A more or less intensive study of capital, value and distribution is made, beginning with the Classical School and carried forward to the more recent writers. Prerequisite, course 1a. Three credits. First Term. Professor Wiest.



## SCHEDULE OF LECTURES AND RECITATIONS

### EXPLANATIONS AND ABBREVIATIONS

Colleges are arranged according to order in the catalog and the departments of each College are arranged alphabetically.

Days of recitations are indicated by the initial letters of the days, D, standing for daily. The buildings are indicated as follows: A, Administration; Arm, Armory; AC, Art Center; Agr., Agriculture; BH, Boyd Hall; CP, Campus Playhouse; C & P, Civil and Physics; E, Education; ES, Experiment Station; FEL, Farm Engineering Laboratory; KH, Kastle Hall, LB, Law Building; NG, New Gymnasium; WG, Women's Gymnasium; M, Mining; McVH, McVey Hall; ML, Mining Laboratory; MH, Mechanical Hall; NH, Neville Hall; NS, New Shop; OC, Old Chemistry; PH, Patterson Hall; S, Science; SF, Stoll Field; SP, Stock Judging Pavilion; SL, Serum Laboratory; WH, White Hall.

### RECITATION HOURS

First Hour:	7:30— 8:20
Second Hour:	8:30— 9:20
Third Hour:	9:30—10:20
Four Hour:	10:30—11:20
Fifth Hour:	11:30—12:20

### Noon Hour

Sixth Hour:	1:30— 2:20
Seventh Hour:	2:30— 3:20
Eighth Hour:	3:30— 4:20



**FIRST TERM**  
**COLLEGE OF ARTS AND SCIENCES**

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
<b>ANATOMY and PHYSIOLOGY</b>							
S1a	General Physiology .....	2	1	D	S	205	Allen
S1b	General Physiology .....	2	5	D	S	205	Allen
S106a	Endocrinology .....	2	2	D	S	205	Allen
S106b	Endocrinology .....	2	3	D	S	205	Allen
S105a <sub>1</sub>	{ Human Osteology, Rec. ....	1	4	MWF	S	207	Allen
S105a <sub>2</sub>	{ Human Osteology, Lab. ....	2	6, 7	D	S	207	Allen
<b>ANCIENT LANGUAGES</b>							
S150a	Teachers' Course in Latin.....	2	1	D	A	303	Jones
S109	Latin Literature (Selections)...	2	2	D	A	303	Jones
S122	Greek Literature (In English)...	2	3	D	A	303	Jones
S3, 4, 5	Cicero, Virgil, Livy .....	2	4	D	A	303	Jones
<b>ANTHROPOLOGY AND ARCHAEOLOGY</b>							
101	Principles of Anthropolgy .....	2	5	D	McVH	200	Funkhouser
<b>ART</b>							
S1a	Drawing and Painting .....	2	1, 2	D	AC		Fisk
2a	{ Art Structure .....	2	{ 4	D	AC		Pride
	{ Art Structure, Lab. ....		{ By Appt.		AC		
10	The Teaching of Art in Public Schools .....	2	3	D	AC		Pride
<b>BACTERIOLOGY</b>							
{ 102 <sub>1</sub>	General Bacter., Lec. ....	4	2	D	KH	214	Scherago
{ 102 <sub>2</sub>	General Bacter., Lab.....		3, 4	D	KH	Sb12	Scherago
201a	Research in Bact. ....	5	By Appt.	D	KH	Sb11	Scherago
<b>BOTANY</b>							
{ 1a <sub>1</sub>	General Botany, Lec.-Rec.....	4	1	D	WH	101	McFarland
{ 1a <sub>2</sub>	General Botany, Lab. ....		2, 3	D	WH	102	McInteer
{ 3 <sub>1</sub>	Plant Physiology, Lec.-Rec.....	4	1	D	WH	103	McInteer
{ 3 <sub>2</sub>	Plant Physiology, Lab. ....		4, 5	D	WH	103	McInteer
20	Dendrology .....	2	2	D	WH	101	McFarland
<b>CHEMISTRY</b>							
1a	General Inorganic Chemistry....	5	1, 2, 3, 4	D	KH	101 200 201	Mitchell and others
4	Qualitative Analysis .....	4	1, 2, 3, 4	D		101 204	Zimmerman
7	Organic Chemistry .....	4	1, 2, 3	D	KH	214 215	Barkenbus



COLLEGE OF ARTS AND SCIENCES—Continued.

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
CHEMISTRY—Continued.							
S7	Organic Chemistry .....	5	1, 2, 3, 4	D	KH	214	Barkenbus
						215	
8	Quantitative Analysis .....	5	1, 2, 3, 4, 5	D	KH	111	Bedford
						113	
106	Advanced Organic Chemistry....	5	By Appt.	D	KH	215	Barkenbus
109	Quantitative Analysis .....	5	1, 2, 3, 4, 5	D		111	
						113	
114	Quantitative Analysis .....	5	1, 2, 3, 4, 5	D	KH	111	Bedford
						113	
131a	Physical Chemistry .....	4	1, 2, 3	D	KH	B14	Bedford
						B17	
204a	Organic Chemistry .....	5	By Appt.	D	KH	215	Barkenbus
204b	Organic Chemistry .....	5	By Appt.	D		215	
ECONOMICS							
1a	Principles of Economics .....	3	7:30-8:45	D	WH	303	Rouse
*8	Economic Geography .....	3	7:30-8:45	D	WH	301	Jennings
9	Forms of Business Org. (Prereq. course 1a) .....	3	9:30-				
104	Public Finance (Prereq. Course 1a) .....	3	10:45	D	WH	203	Lawrence
134	Adv. Economic History of the U. S. (Not open to freshmen and sophomores nor to stu- dents who have had Course 3, except when doing grad- uate work.) .....	3	1:30-2:45	D		203	
			10:30-				
			11:45	D	WH	303	Jennings
203	History of Economic Thought (Prereq. Course 1a) .....	3	11:30-	D		205	
			12:45	D			
ENGLISH LANGUAGES AND LITERATURE							
S1a	English Composition .....	2	1	D	McVH	210	Davis
S1b	English Composition .....	2	2	D		210	
S3a	History of English Lit. ....	2	3	D	McVH	210	Davis
111	English Novel .....	3	7:30-8:45	D		200	
114a	American Literature .....	3	9:30-				
			10:45	D	McVH	200	Knight
120	Pronun. of Modern English.....	3	7:30-8:45	D		211	
116	Contemporary Drama .....	3	9:30-				
			10:45	D	McVH	230	Farquhar
201a	Literary Criticism .....	3	11:30-	D		230	
			12:45	D			
207	Spenser .....	3	9:30-		McVH	211	Dantzler
			10:45	D			
LIBRARY TRAINING							
136	Book Selection for High School	2	4	D	McVH	207	King
129	Cataloging and Classification of the School Library .....	2	2	D		207	

\*Courses open to Freshmen.



COLLEGE OF ARTS AND SCIENCES—Continued.

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
	LIBRARY TRAINING—Cont.						
133	Reference and Bibliography .....	2	5	D	McVH	207	Wiseley
132	Work With Children .....	2	2	D	McVH	206	Harrington
126	Place, Function and Administration of the Sch. Library..	2	5	D	McVH	206	King
134	Methods of Teaching Use of the School Library .....	2	4	D	McVH	206	Harrington
	GEOLOGY						
S2a	Elementary Geology .....	2	1	D	S	203	McFarlan
10	Geology of Kentucky .....	2	2	D	S	203	McFarlan
16a	Mineral Resources .....	2	3	D	S	203	Robinson
S18a	Elements of Geography .....	2	4	D	S	203	Robinson
118a	Field Work in Regional Geology (June 3-17) .....	2		Field			McFarlan and Robinson
	GERMAN LANGUAGE AND LITERATURE						
S1a	Elementary German .....	2	1	D	A	203	Melcher
S1b	Elementary German .....	2	2	D	A	203	Melcher
S2a	Intermediate German .....	2	3	D	A	203	Melcher
S2b	Intermediate German .....	2	3	D	A	203	Melcher
S3a	Composition and Reading .....	2	4	D	A	203	Melcher
S3b	Composition and Reading .....	2	4	D	A	203	Melcher
S4a	Adv. Reading and Composition	2			A	203	Melcher
S6	Scientific and Journalistic Ger.	2			A	203	Melcher
	Special arrangements will be made for students who cannot accommodate themselves to this schedule.						
	HISTORY						
S4a	Intro. to Modern Europe.....	2	2	D	A	204	Landin
S10a	History of the Americas .....	2	1	D	A	205	Knapp
S105	Colonial America .....	2	2	D	A	205	Knapp
182a	Historical Criticism .....	1	4	TThS	A	205	Landin
S130a	History of the West .....	2	3	D	A	205	Knapp
S170	Era of Louis XIV .....	2	5	D	A	204	
220	Origins of the Great War.....	2	3	MTWT	A	204	Landin
	HYGIENE						
1	Hygiene .....	1.3	1	D	A	4	Chambers, Heinz
115	Epidemiology .....	2	2	D	A	4	Chambers, Heinz
105	Advanced Hygiene .....	2	3	D	NH	304	Chambers, Heinz



COLLEGE OF ARTS AND SCIENCES—Continued.

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
<b>JOURNALISM</b>							
S2a	Feature Writing .....	2	1	D	McVH	54	Griffin
S2b	Advanced Reporting .....	2	2	D	McVH	54	Griffin
S3a	Etymology .....	2	4	D	McVH	54	Grehan
S3b	Verbal Criticism .....	2	5	D	McVH	54	Grehan
101	Supervision of H. S. Publ. ....	2	3	D	McVH	53	Portmann
<b>MATHEMATICS</b>							
S2	Solid Geometry .....	2	3	D	McVH	107	South
S4	Plane Trigonometry .....	4	1, 2	D	McVH	100	Davis
S6	Analytic Geometry .....	4	3, 4	D	McVH	106	Boyd
S7a	Differential Calculus .....	4	1, 2	D	McVH	104	LeStourgeon
S7b	Integral Calculus .....	2	3	D	McVH	100	Davis
S14	Mathematics of Finance .....	4	4, 5	D	McVH	107	South
*S105a	Differential Equations .....	2	5	D	McVH	104	LeStourgeon
*S106a	Advanced Calculus .....	2	5	D	McVH	104	LeStourgeon
*S109	Theory Fctns. Complex Variable ..	2	5	D	McVH	104	LeStourgeon
**S119	Modern Geometry .....	2	1	D	McVH	106	Boyd
**S107	Projective Geometry .....	2	1	D	McVH	106	Boyd
**S103	Theory of Equations .....	2	1	D	McVH	106	Boyd
<b>MUSIC</b>							
4a <sub>1</sub>	Public S. Music Methods.....	2	1	D	AC		Wilson
4a <sub>2</sub>	Public S. Music Methods.....	2	2	D	AC		Wilson
9a	Organization and Training of Musical Groups .....	2	2	D	AC		Sulzer
9b	Organization and Training of Musical Groups .....	2	3	D	AC		Lampert
19a	History and Appreciation .....	3	4	D	AC		Lampert
21a	Sight Reading .....	1.5	3	D	AC		Wilson
S25a	Elementary Harmony .....	2	1	D	AC		Lampert
S25b	Elementary Harmony .....	2	2	D	AC		Lampert
27a	Ear Training .....	2	4	D	AC		Wilson
28a	Mixed Chorus .....	.5	5	D	AC		Lampert and Wilson
<b>PHILOSOPHY</b>							
S1a	Elementary Philosophy .....	2	1	D	McVH	109	Kuiper
S103	Ethics .....	2	2	D	McVH	109	Kuiper
S111a	Contemporary Philosophy .....	2	4	D	McVH	109	Kuiper
<b>PHYSICAL EDUCATION</b>							
S10	Games .....	1	2	D	MG		Robinson
S21	Calisthenics and Singleline Marching .....	1	3, 4	D	MG		Robinson

\*Note:—Only one of the courses marked \* will be given.

\*\*Note:—Only one of the courses marked \*\* will be given.



COLLEGE OF ARTS AND SCIENCES—Continued.

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
<b>PHYSICS</b>							
1a	Gen. Elem. Phys., Lec. ....	5	1	D	C&P	200	Koppius
	Gen. Elem. Phys., Rec. ....		2	D	C&P	103	
3a	Gen. Elem. Phys., Lab. ....	4	3, 4	MWF	C&P	203	Koppius
	Gen. Col. Phys, Lec. & Rec. ....		3, 4	D	C&P	200	
S5	Meas. in Mech. & Heat., Lec. ....	2	1	TTh	C&P	103	States
	Meas. in Mech. & Heat., Lab. ....		2	{	{	C&P	
			1	MWF			
			2	MTW			
				ThF			
S104a	Theoretical Mechanics .....	2	1	D	C&P	303	Koppius
S217a	Theoretical Physics .....	1	2	MWF	C&P	303	States
S223a	General Physics .....	6	By Appt.				States
<b>POLITICAL SCIENCES</b>							
S15a	Problems of Citizenship .....	2	1	D	A	301	Shannon
S152	Municipal Government .....	2	2	D	A	301	Shannon
S159a	Development of American Constitution .....	2	3	D	A	301	Shannon
S165a	World Politics .....	2	4	D	A	4	
S170	Political Parties .....	2	4	D	A	301	
S171	Political Theory .....	2	5	D	A	301	
<b>PSYCHOLOGY</b>							
S2a & b	General Psychology .....	4	1, 2	D	NH	306	Asher
S3	Individual Development .....	2	1	D	NH	304	Boynton
S7	Psychology of the Child .....	2	3	D	NH	304	Asher
S104	Social Psychology .....	2	2	D	NH	306	Boynton
108a	Human Measurements .....	2	4	D	NH	306	Boynton
109a	Diagnosis of Development .....	2	By Appt.		NH	302	Boynton
120a	Independent Work .....	2	By Appt.		NH	302	Boynton
<b>ROMANCE LANGUAGES</b>							
S1a	Elementary French .....	2	3	D	S	306	Schick
S1b	Intermediate French .....	2	4	D	S	306	Schick
S2b	French Novel and Drama .....	2	5	D	S	306	Schick
S5a	Elementary Spanish .....	2	3	D	S	307	Server
S7b	Intermediate Spanish .....	2	2	D	S	307	Server
S112a	XIX Cent. Spanish Lit. ....	2	1	D	S	307	Server
S114a	Independent Work (Grad. only)		By Appt.			204	Server, Schick
<b>SOCIOLOGY</b>							
1b	Principles of Sociology .....	3	7:30-8:45	D	McVH	129	Best
103	Criminology .....	3	9:30- 10:45	D	McVH	129	Best
<b>ZOOLOGY</b>							
{ 1a <sub>1</sub>	General Zoology, Rec. ....	4	2	D	S	108	Brauer
{ 1a <sub>2</sub>	General Zoology, Lab. ....						



COLLEGE OR ARTS AND SCIENCES—Continued.

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
ZOOLOGY—Continued.							
3a	General Entomology .....	3	3, 4	D	S	105	Allen
102	Ornithology .....	3	1, 2	D	S	105	Allen
106 <sub>1</sub>	Embryology, Rec. ....	4	3	D	S	108	Brauer
106 <sub>2</sub>	Embryology, Lab. ....	†	10:30-12	D	S	5	Brauer
108a	Prins. of Zoology (Evolution) ..	2	3	D	McVH	111	Funkhouser
101	Anthropology .....	2	4	D	McVH	111	Funkhouser
110	Individual Work .....	2	By Appt.		S	2	Allen, Brauer

COLLEGE OF AGRICULTURE

ANIMAL INDUSTRY							
107 <sub>1</sub>	Sheep Production, Lec. ....	3	1	D	Agr.	303	Horlacher
107 <sub>2</sub>	Sheep Production, Lab. ....		6, 7, 8	TW	JP		Horlacher
113	Live Stock Judging .....	2	4, 5	D	JP		Harris
119	Genetics .....	3	4	D	Agr.	205	Anderson
			5	TThS			
120	Systems of Live Stock Prod... 3		2	MWF	Agr.	303	Horlacher
			3	D			
121	Advanced Genetics .....	3	2	D	Agr.	303	Horlacher
			3	MWF	Agr.	205	Anderson
125	Dairy Cattle Feeding and Management .....	3	4	D			
			5	MWF	DB		Ely
HORTICULTURE							
103 <sub>1</sub>	Apple Production, Lec. ....	3	1	D	Agr.	301	Waltman
103 <sub>2</sub>	Apple Production, Lab. ....		6, 7, 8	TW	F'rm		Waltman
HOME ECONOMICS							
4 <sub>1</sub>	Dietetics, Lec. ....	4	1	D	Agr.	205	Foster
4 <sub>2</sub>	Dietetics, Lab. ....		6, 7, 8	MT	Agr.	103	Foster
				WTh			
6a <sub>1</sub>	Foods, Lec. ....	3	3	MWF	Agr.	103	Barkley
6a <sub>2</sub>	Foods, Lab. ....		1, 2	D	Agr.	103	Barkley
29 <sub>1</sub>	Costume Design, Lec. ....	3	3	TThS	Agr.	202a	Wade
29 <sub>2</sub>	Costume Design, Lab. ....		4, 5	D	Agr.	202a	Wade
30 <sub>1</sub>	Elementary Clothing, Lec. ....	3	3	TThS	Agr.	205	Barkley
30 <sub>2</sub>	Elementary Clothing, Lab. ....		4, 5	D	Agr.	202	Barkley
115	Child Care and Training .....	3	1	D			Wilson
	Lec. ....		9:00-11:00				
	Lab. ....		11:00-1:00				
			or				
			11:00-1:00	MTFTF			
	Conferences .....		9:00-11:00				
			or				
			11:00-1:00	Sat.			
			2	D			
116	Advanced Costume Design.....	3	3	MWF	Agr.	202a	Wade
			4	D			
144	Advanced Home Management..	3	5	MWF	Agr.	303	Foster



**COLLEGE OF ENGINEERING**

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
<b>CIVIL ENGINEERING</b>							
21	Hydraulics .....	2	5	D	MH	201	Johnson Jett
74	Structural Design .....	1.3	15 hrs.	By Apt.	MH		
<b>DRAWING</b>							
1a	Mechanical Drawing .....	2	18 hrs.	By Apt.	C&P	207	Horine
1b	Mechanical Drawing .....	2	18 hrs.	By Apt.	C&P	207	Horine
S3	Descriptive Geometry .....	4	3, 4	D	C&P	107	Horine
4a	Advanced Drawing .....	2	18 hrs.	By Apt.	C&P	207	Horine
4b	Advanced Drawing .....	2	18 hrs.	By Apt.	C&P	207	Horine
<b>ELECTRICAL ENGINEERING</b>							
S1	Elements of Electrical Eng.....	2	4	D	MH	202	Freeman
S3	Alternating Currents .....	2	2	D	MH	202	Freeman
2	D. C. Dynamos .....	2	4	D	MH	209	Bureau
S7	Dynamos Design .....	2	22 hrs.	By Apt.	MH		Bureau
9a	Electrical Lab. ....	1	6, 7	MWF	MH	108	Barnett
9b	Electrical Lab. ....	1	6, 7	MWF	MH	108	Barnett
<b>ENGINEERING MECHANICS</b>							
S1	Mechanics of Materials .....	4	2, 3	D	MH	201	Johnson
S3	Kinematics .....	2	5	D	MH	202	Jett
S4	Kinematic Design .....	3	36 hrs.	By Apt.	MH		Jett
5	Slide Rule Practice .....	1	4	Th	MH	208	Jett
S6	Analytical Mechanics .....	4	3, 4	D	MH	201	Johnson
S7	Machine Design .....	2	18 hrs.	By Apt.	MH		
<b>MECHANICAL ENGINEERING</b>							
S8	Steam Laboratory .....	1	6, 7, 8	TTh	MH	112	Watkins Singer
12	Automotive Engineering .....	2	1	D	AS		
<b>PRACTICAL MECHANICS</b>							
S7a	Wood Shop .....	2	24 hrs.	By Apt.	NS		Dicker & others
S7b	Wood Shop .....	2	24 hrs.	By Apt.	NS		Dicker & others
8a	Forge, Machine & Auto Shops	2	18 hrs.	By Apt.	NS		Thurman and others
8b	Forge, Machine & Auto Shops	2	18 hrs.	By Apt.	NS		Thurman and others

**COLLEGE OF LAW**

	Criminal Law .....	2	3	D	Law	102	Moreland
	Mortgages .....	2	2	D	Law	204	Evans
	Evidence .....	2	1	D	Law	204	Randall
	Introduction to the Study of Law .....	2	4	D	Law	102	Ragland
	Sales .....	2	5	D	Law	204	Chalkley
	Research in the Restatement of the Law of Contracts.....	3	By Appt.		Law	204	Evans



COLLEGE OF EDUCATION

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
ADMINISTRATION							
S101	School Organization .....	2	1	D	A	304	Holloway
103	The Elementary School .....	3	9:00-10:15	D	E	Aud	Hill
125	The Superv. of Instruction.....	3	10:30-11:45	D	E	106	Whitehead
190a	Technique of the Reg. Office....	2	By Appt.	D	A	102	Gillis
S204a	The Adm. of Higher Ed.....	2	3	D	E	105	McVey
S213	State and County Sch. Adm.....	2	2	D	E	205	Holloway
231	Financing Pub. Ed. ....	3	10:30-11:45	D	E	204	Hill
232	High School Adm. ....	3	7:30-8:45	D	E	204	Ligon
210	Special Problems in Sch. Adm. 3	3	By Appt.	D	E	2	Hill
AGRICULTURAL EDUCATION							
S280	Method in Teaching Vo. Ag.....	2	3	D	NH	206	Woods
S287	Adv. Problems in Vo. Ag.....	2	By Appt.				Woods
COMMERCIAL EDUCATION							
158	Methods of Teaching Com. Subj. in the Sec. School.....	3	7:30-8:45	D	WH	205	Lawrence
EDUCATIONAL PSYCHOLOGY							
S16	Educational Psychology .....	2	2	D	E	105	Patrick
122a	Ed. Tests and Measurements..	2	2	D	A	302	Ross
122b	Ed. Tests and Measurements..	2	3	D	A	302	Ross
223	Ed. Statistics .....	2	5	D	E	201	Ross
ELEMENTARY EDUCATION							
S136	Teaching Reading in the Elementary School .....	2	3	D	E	202	Duncan
42	Teaching Arithmetic in the Elementary School .....	2	1	D	E	202	Duncan
S143	Teaching Liter. to Children.....	2	4	D	E	202	Duncan
37	Teaching Spelling, Writing and Language in the Elem. Sch....	2	2	D	E	202	Moore
44	Teaching the Social Sciences in the Primary Grades .....	2	5	D	E	202	Moore
40	Teaching the Social Sciences in the Upper Grades .....	2	3	D	E	205	Moore
HISTORY OF EDUCATION							
S117a	History of Education .....	2	2	D	E	106	Noe
S219	Great Educators and Their Work .....	2	3	D	E	106	Noe
S10b	Moral and Esthetic Ed.....	2	5	D	E	Aud	Noe



COLLEGE OF EDUCATION—Continued.

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
<b>HOME ECONOMICS EDUCATION</b>							
160	Technique of Teaching Home Economics .....	3	7:00-8:15	D	E	105	Spickard
**164	Methods of Teach. Child Care .....	3	8:15-9:30	D	E	301	Parker
163	Current Problems in Home Economic Education .....	3	9:30-10:45	D	E	304	Spickard
165	Problems in Vocational Educa. ....	3	11:30-12:45	D	E	105	Parker
<b>PHILOSOPHY of EDUCATION</b>							
19c	Modern Ed. Problems .....	1	June 23-July 5			106	McCoy
114a	Educational Sociology .....	2	4	D	E	201	Patrick
140a	Philosophy of Education.....	2	5	D	E	301	Patrick
S222a	Thesis Course .....	2	4	D	E	105	Taylor
205	Review of Ed. Literature .....	3	10:30-11:45	D	E	205	Adams
227b	Prin. of Curriculum Construc... ..	3	7:30-8:45	D	E	Aud	Adams
<b>SECONDARY EDUCATION</b>							
105	The Technique of Teaching.....	3	9:30-10:45	D	E	105	Ligon
106	Directed Teaching .....	3	By Appt.				Taylor
226	The Junior High School .....	3	8:30-9:45	D	E	201	Whitehead
129	Mathematics in the High Sch'l .....	2	1	D	E	201	Mitchell
149	Extra Curricular Activities in the High School .....	2	3	D	E	204	Holloway

\*\*One hour laboratory between the hours of 9 and 12, MTWThF.

COLLEGE OF COMMERCE

1a	Principles of Economics .....	3	7:30-8:45	D	WH	303	Rouse
*8	Economic Geography .....	3	7:30-8:45	D	WH	301	Jennings
9	Forms of Business Organiza- tion (Prereq. Course 1a).....	3	9:30-10:45	D	WH	203	Lawrence
104	Public Finance (Prereq. Course 1a) .....	3	1:30-2:45	D	WH	203	Martin
108	Insurance (Prereq. Course 1a) .....	3	7:30-8:45	D	WH	306	Palmer
109a	Business Law .....	3	10:30-11:45	D	WH	301	Rouse
134	Adv. Economic History of the U. S. (Not open to freshmen and sophomores nor to stu- dents who have had Course 3 except when doing grad- uate work) .....	3	10:30-11:45	D	WH	303	Jennings
203	History of Economic Thought (Prereq. Course 1a) .....	3	11:30-12:45	D	WH	205	Wiest

\*Courses open to Freshmen.



**SECOND TERM  
COLLEGE OF ARTS AND SCIENCES**

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
<b>ANCIENT LANGUAGES</b>							
S150b	Teachers' Course in Latin.....	2	1	D	A	303	Jones
S110	Latin Literature (Selections)..	2	2	D	A	303	Jones
S120	Greek Civilization .....	2	3	D	A	303	Jones
S3, 4, 5	Cicero, Virgil, Horace .....	2	4	D	A	303	Jones
<b>ART</b>							
S71a	Drawing and Painting .....	3	1, 2, 3	D	AC		Fisk
S73a	Drawing and Painting .....	3	3, 4, 5	D	AC		Fisk
<b>BACTERIOLOGY</b>							
8	Bacteria in Relation to Men....	2	3	D	KH	B13	Weaver
201b	Research in Bact. ....	5	By Appt.	D	KH	Sb11	Weaver
<b>BOTANY</b>							
{ 1b <sub>1</sub>	General Botany, Lec.-Rec. ....	4	1	D	WH	101	McInteer
{ 1b <sub>2</sub>	General Botany, Lab. ....		3, 4	D	WH	102	McInteer
20	Dendrology .....	2	2	D	WH	101	McInteer
<b>CHEMISTRY</b>							
1b	General Inorganic Chemistry....	5	1, 2, 3, 4	D	KH	{ 111 200 201	{ Mitchell and others
7	Organic Chemistry .....	4	1, 2, 3	D	KH	{ 209 215	{ Barkenbus
8	Quantitative Analysis .....	5	1, 2, 3, 4, 5	D	KH	{ 111 113	{ Bedford
106	Advanced Organic Chemistry..	5	By Appt.	D	KH	215	Barkenbus
109	Quantitative Analysis .....	5	1, 2, 3, 4, 5	D	KH	{ 111 115	{ Bedford
131b	Physical Chemistry .....	4	1, 2, 3	D	KH	{ B14 B17	{ Bedford
127b	Organic Chemistry .....	5	1, 2, 3, 4	D	KH	{ 209 215	{ Barkenbus
114	Quant. Analysis .....	5	1, 2, 3, 4, 5	D	KH	{ 111 115	{ Bedford
204a	Organic Chemistry .....	5	By Appt.	D	KH	215	Barkenbus
204b	Organic Chemistry .....	5	By Appt.	D	KH	215	Barkenbus
<b>ECONOMICS</b>							
1b	Principles of Economics .....	3	8:30-9:45	D	WH	303	Carter
*12	Economic Geography of N. A.	3	10:30-11:45	D	WH	303	Jennings
102	Labor Problems (Prereq. Course 1a) .....	3	11:30-12:45	D	WH	301	Carter
105	Money and Banking (Prereq. Course 1a) .....	3	10:30-11:45	D	WH	306	Lawrence

\*Open to Freshmen.



COLLEGE OF ARTS AND SCIENCES—Continued.

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
ECONOMICS—Continued.							
107	Statistical Method .....	3	7:30-8:45	D	WH	306	Palmer
125	Adv. Economic History of Europe (Not open to freshmen and sophomores nor to students who have had Course 2 except when doing graduate work) .....	3	7:30-8:45	D	WH	301	Jennings
ENGLISH LANGUAGE AND LITERATURE							
S1a	English Composition .....	2	1	D	McVH	206	Shannon
S1b	English Composition .....	2	2	D	McVH	203	Shannon
S3b	History of English Lit. ....	2	3	D	McVH	203	Shannon
7a	Public Speaking .....	3	7:30-8:45	D	McVH	231	Sutherland
11a	Debate .....	3	9:30-10:45	D	McVH	231	Sutherland
106	Romanticism .....	3	9:30-10:45	D	McVH	204	Brady
114b	American Literature .....	3	9:30-10:45	D	McVH	203	Gallaway
142	The Renaissance .....	3	7:30-8:45	D	McVH	206	Gallaway
208	Carlyle .....	3	11:30-12.45	D	McVH	204	Brady
GERMAN LANGUAGE AND LITERATURE							
S1a	Elementary German .....	2	1	D	A	304	Melcher
S1b	Elementary German .....	2	2	D	A	304	Melcher
S2a	Intermediate German .....	2	3	D	A	304	Melcher
S2b	Intermediate German .....	2	3	D	A	304	Melcher
S3a	Composition and Reading .....	2	4	D	A	304	Melcher
S3b	Composition and Reading .....	2	4	D	A	304	Melcher
S4a	Adv. Reading and Composition .....	2	By Appt.		A	304	Melcher
S6	Scientific and Journalistic Ger. ....	2	By Appt.		A	304	Melcher
Special arrangements will be made for students who cannot accommodate themselves to this schedule.							
HISTORY							
S4b	Intro. to Modern Europe .....	2	1	D	A	204	Landin
S10b	History of the Americas.....	2	1	D	A	205	Knapp
S119a	Nineteenth Century .....	2	2	D	A	204	Landin
S130b	History of the West.....	2	3	D	A	205	Knapp
181	Amer. Historiography .....	1	4	TThS	SA	205	Knapp
182b	Historical Criticism .....	1	4	TThS	A	204	Landin
180	European Historigraphy .....	1	3	MTWT	A	204	Landin



COLLEGE OF ARTS AND SCIENCES—Continued.

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
<b>HYGIENE</b>							
1	Hygiene .....	1.3	1	D	A	204	Pinney, Heinz
112	Public Health Administration..	2	2	D	A	4	Pinney, Heinz
111	Vital Statistics .....	2	4	D	NH	304	Pinney, Heinz
<b>JOURNALISM</b>							
S7	Community Journalism .....	2	2	D	McVH	54	Portmann
S105	Law of the Press.....	2	3	D	McVH	54	Portmann
S108	History of Journalism .....	2	4	D	McVH	54	Portmann
<b>MATHEMATICS</b>							
S2	Solid Geometry .....	2	1	D	McVH	100	Canaday
S5	College Algebra .....	4	2, 3	D	McVH	100	Canaday
S6	Analytics .....	4	2, 3	D	McVH	107	Brown
S7a	Differential Calculus .....	4	2, 3	D	McVH	106	Latimer
S7b	Integral Calculus .....	2	1	D	McVH	107	Brown
*S111	Higher Algebra .....	2	5	D	McVH	106	Latimer
*S116	Analytic Mechanics .....	2	5	D	McVH	106	Latimer
*S207a	Theory of Numbers .....	2	5	D	McVH	106	Latimer
<b>MUSIC</b>							
4a	Public School Music Methods..	2	1	D	AC		Wilson
4b	Public School Music .....	2	2	D	AC		Wilson
21b	Sight Reading .....	1.5	3	D	AC		Wilson
27b	Ear Training .....	2	4	D	AC		Wilson
<b>PHYSICS</b>							
1b	{ Gen. Elem. Phys., Lec.....	5	1	D	C&P	200	Koppius
	{ Gen. Elem. Phys., Rec.....		2	D	C&P	103	Koppius
	{ Gen. Elem. Phys., Lab. ....		3, 4	MWF	C&P	203	Koppius
3b	Gen. Col. Physics, Lec. & Rec.	4	3, 4	D	C&P	200	States
			1	TTh	C&P	105	States
S6	{ Meas. in Elec. and Mag., Lec.	2	1	MWF			
	{ Meas. in Elec. and Mag., Lab.		2	MTW	C&P	3	States
				ThF			
S104b	Theoretical Mechanics .....	2	3, 4	TThS	C&P	303	Koppius
S217b	Theoretical Physics .....	1	By Appt.				States
S223b	General Physics .....	6	By Appt.				States
<b>POLITICAL SCIENCE</b>							
S15b	Problems of Citizenship .....	2	1	D	A	301	Shannon
S101	Latin American Relations .....	2	1	D	A	302	Walp
S153	City Administration .....	2	4	D	A	301	Shannon
S160	Foreign Service .....	2	2	D	A	302	Walp
S161	International Relations .....	2	4	D	A	302	Walp
S165b	World Politics .....	2	3	D	A	301	Shannon

Note:—Only one of the courses marked \* will be given.



COLLEGE OF ARTS AND SCIENCES—Continued.

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
PSYCHOLOGY							
S2a & b	General Psychology .....	4	1, 2	D	NH	306	Asher
S116	Comparative Psychology .....	2	3	D	NH	306	Boynton
109b	Diagnosis of Development .....	2	By Appt.		NH	302	Boynton
S112	Personnel Management .....	2	4	D	NH	306	Asher
S114	Abnormal Psychology .....	2	1	D	NH	306	Boynton
S115	Meas. of Hum. Relationships.....	2	2	D	NH	204	Boynton
120b	Independent Work .....	2	By Appt.		NH	302	Boynton
ROMANCE LANGUAGES							
S1b	Elementary French .....	2	3	D	S	306	Holmes
S2b	Intermediate French .....	2	2	D	S	306	Holmes
S5b	Elementary Spanish .....	2	4	D	S	306	Holmes
S7b	Intermediate Spanish .....	2	2	D	S	306	Holmes
SOCIOLOGY							
107	Community Welfare .....	3	7:30-8:45	D	McVH	129	Beehler
108	Community Surveys .....	3	9:30-10:45	D	McVH	129	Beehler
ZOOLOGY							
1b <sub>1</sub>	General Zoology, Rec. ....	4	2	D	S	108	Brauer
1b <sub>2</sub>	General Zoology, Lab. ....	†	7:00-8:20	D	S	103	Brauer
110	Individual Work .....	2	By Appt.		S	2	Brauer

COLLEGE OF AGRICULTURE

ANIMAL INDUSTRY							
20	Animal Nutrition .....	3	{ 1	MWF }	DB		Wilford
106	Pork Production .....	3	{ 2	D }	DB		Wilford
			3, 4	D			

COLLEGE OF ENGINEERING

CIVIL ENGINEERING							
21	Hydraulics .....	2	5	D	MH	201	Johnson
ELECTRICAL ENGINEERING							
2	D. C. Dynamos .....	2	3	D	MH	202	Freeman
S7	Dynamo Design .....	2	22 hrs.	By Apt.	MH	104	Freeman or Bureau
S3	Alternating Currents .....	2	4	D	MH	202	Freeman



**COLLEGE OF ARTS AND SCIENCES—Continued.**

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
9b	ELECTRICAL ENGR.—Cont.						
	Alternating Currents .....	2	4	D	MH	202	Freeman Bureau or Barnett
	Electrical Lab. ....	1	6, 7	MWF	MH	108	
<b>ENGINEERING MECHANICS</b>							
2	Testing Laboratory .....	1	6, 7	MWF	C&P	9	Johnson
S6	Analytical Mechanics .....	4	2, 3	D	MH	201	Johnson

**COLLEGE OF LAW**

	Criminal Law .....	2	3	D	Law	102	Moreland
	Bankruptcy .....	2	4	D	Law	204	Ragland
	Evidence .....	2	1	D	Law	204	Randall
	Personal Property .....	2	2	D	Law	102	Evans
	Municipal Corporations .....	2	5	D	Law	204	Chalkley
	Research in the Restatement of Contracts .....	3	By Appt.		Law		Evans

**COLLEGE OF EDUCATION**

<b>ADMINISTRATION</b>							
103	The Elementary School .....	3	9:00- 10:15	D	E	Aud	Hill
190b	Technique of the Reg. Off.....	2	By Appt.	D	A	102	Gillis
202	City School Adm. ....	3	10:30- 11:45	D	E	Aud	Hill
232	High School Adm. ....	3	7:30-8:45	D	E	201	Ligon
210	Special Problems in Sch. Adm.	3	By Appt.	D	E	2	Hill
125	Supervision of Instr. ....	3	8:30-9:45	D	E		Whitehead
<b>AGRICULTURAL EDUCATION</b>							
S287	Adv. Prob. in Voc. Ag.....	2	By Appt.				Woods
<b>COMMERCIAL EDUCATION</b>							
159	The Commercial Curriculum in the Secondary School.....	3	8:30-9:45	D	WH	205	Lawrence
<b>EDUCATIONAL PSYCHOLOGY</b>							
S16	Educational Psychology .....	2	2	D	E	202	Ross
122a	Ed. Tests and Measurements..	2	3	D	E	201	Ross
122b	Ed. Tests and Measurements..	2	4	D	E	201	Ross
<b>ELEMENTARY EDUCATION</b>							
136	Teaching Reading in the Elementary School .....	2	1	D		202	Duncan
42	Teaching Arithmetic in the Elementary School .....	2	4	D		202	Duncan



COLLEGE OF EDUCATION—Continued.

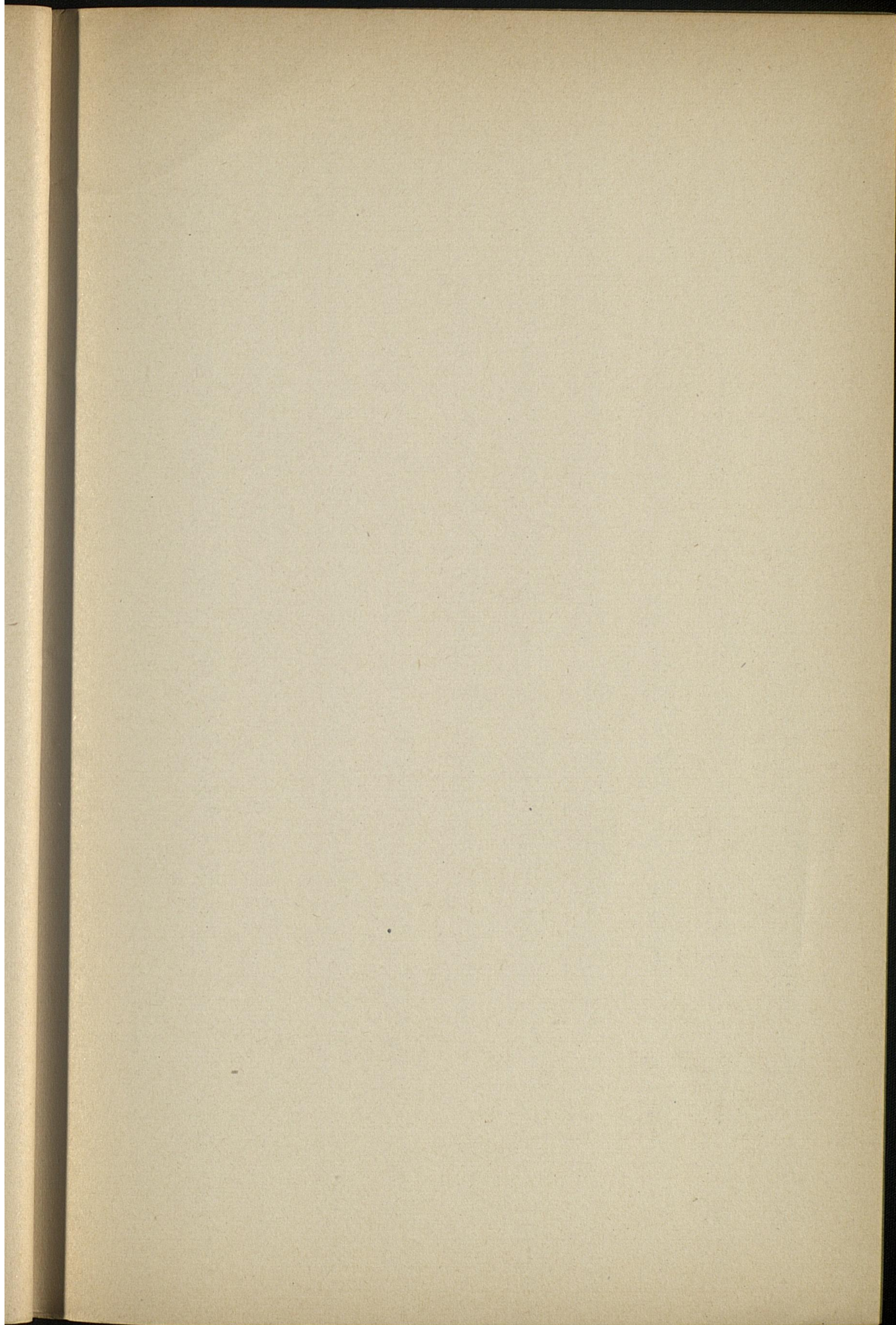
Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
S143	ELEMENTARY EDUCA.—Cont.						
37	Teachng Liter. to Children.....	2	3	D		202	Duncan
44	Teaching Spelling, Writing and Language in the Elementary Grades .....	2	3	D		205	Moore
40	Teaching the Social Sciences in the Primary Grades .....	2	2	D		205	Moore
	Teaching the Social Sciences in the Upper Grades .....	2	5	D		201	Moore
	HISTORY OF EDUCATION						
S10a	Moral and Esthetic Ed.....	2	5	D	E	106	Noe
S117b	History of Education .....	2	2	D	E	105	Blackwell
S121	History of Ed. in the U. S.....	2	3	D	E	106	Noe
S220	Comparative Education .....	2	2	D	E	106	Noe
	PHILOSOPHY of EDUCATION						
114b	Educational Sociology .....	2	3	D	E	105	Blackwell
140b	Philosophy of Eductaion.....	2	5	D	E	105	Blackwell
200	Advanced Course in Philos. of Education .....	3	10:30-11:45	D	E	204	Adams
S222b	Thesis Course .....	2	4	D	E	105	Taylor
230	Advanced Course in Educa-tional Sociology .....	3	7:30-8:45	D	E	204	Adams
	SECONDARY EDUCATION						
105	The Technique of Teaching.....	3	9:30-10:45	D	E	301	Ligon
106	Directed Teaching .....	3	By Appt.				Taylor
226	The Junior High School.....	3	10:30-11:45	D	E	205	Whitehead
135	The Social Sciences in the H. S.	2	2	D	E	301	Holloway
149	Extra-Curricular Activities .....	2	3	D	E	204	Holloway
S250	The Senior High School.....	2	4	D	E	106	Holloway

COLLEGE OF COMMERCE

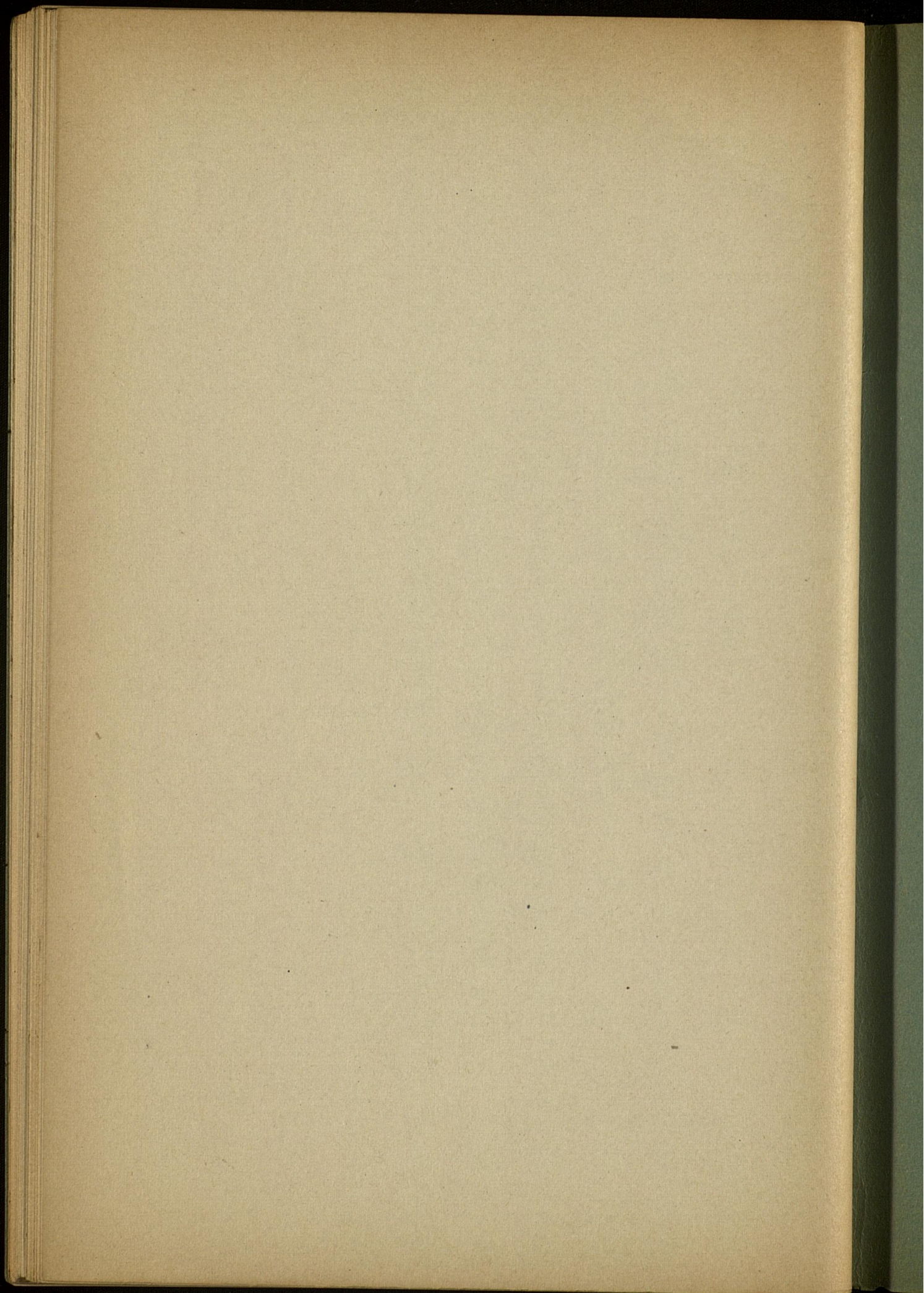
1b	Principles of Economics.....	3	8:30-9:45	D	WH	303	Carter
*12	Economic Geography of N. A....	3	10:30-11:45	D	WH	303	Jennings
102	Labor Problems (Prereq. Course 1a) .....	3	11:30-12:45	D	WH	301	Carter
105	Money and Banking (Prereq. Course 1a) .....	3	10:30-11:45	D	WH	306	Lawrence
107	Statistical Method .....	3	7:30-8:45	D	WH	306	Palmer
125	Adv. Economic Hist. of Europe (not open to freshmen and sophomores nor to students who have had Course 2 except when doing graduate work) .....	3	7:30-8:45	D	WH	301	Jennings

\*Open to Freshmen.

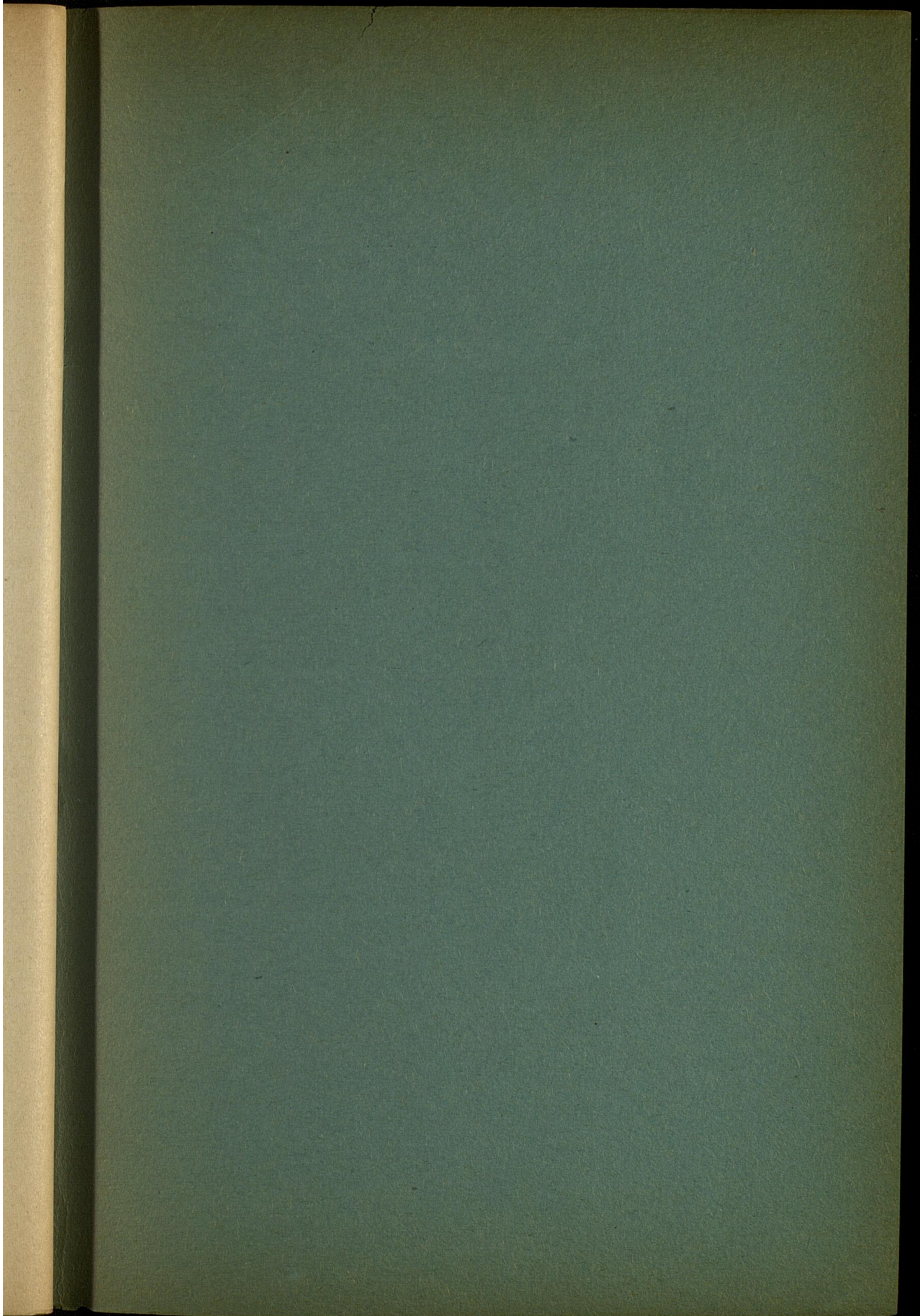














## ORGANIZATION

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Lexington, Kentucky

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For information regarding courses and catalogs, address Ezra L. Gillis, Registrar, University of Kentucky, Lexington, Kentucky.