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Bulletin

University of Kentucky



Summer Session 1929

First Term: June 17 to July 20 Second Term: July 22 to August 24

January, 1929

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Vol. 21

SUMMER SESSION CALENDAR

Saturday	May 18	Last date for ex-service men to make application for free tuition and room rent.
Monday	June 17	Registration for first term.
Tuesday	June 18	Classes begin.
Friday	June 21	Last date for making changes in registration or in schedule without payment of fee.
Monday	June 24	Last date upon which a student may register for credit for the first term's work.
Monday	June 24	Last date upon which a student may be dropped without a grade by the dean.
Tuesday	June 25	Last date on which a student may withdraw and receive a refund of matriculation fee for the first term.
Saturday	July 20	Examination for first term.
Monday	July 22	Registration for second term.
Tuesday	July 23	Classes begin.
Thursday	July 25	Last date for making changes in regis- tration or in schedule without pay- ment of fee.
Monday	July 29	Last date for registering for second term without special permission of heads of departments concerned.
Monday	July 29	Last date upon which a student may be dropped without a grade by the dean.
Tuesday	July 30	Last date upon which a student my withdraw and receive a refund of matriculation fee for the second term.
Saturday	August 24	Examinations for the second term.

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OFFICERS OF THE SUMMER SESSION

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W. C. Bell, M. A., State Superintendent of Schools.
WILLIAM S. TAYLOB, Ph. D., Director of the Summer Session.
WELLINGTON PATRICK, Ph. D., Assistant Director of the Summer Session.

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BUSH, LUCILLE, M. A. Instructor in Art.

CHALKLEY, LYMAN. B. L. Professor of Law.

CHAMBERS, WILBUR WELLINGTON, M. A. Instructor in Mathematics.

CHAMBERS, JOHN S., M. D.

Professor of Hygiene and Public Health; Head of Department.

Dantzler, Lehre L., M. A.

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Mechanics.

DUNCAN, MRS. MAY K., A. B. Instructor in Education.

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Assistant Professor of Farm Crops, Assistant Agronomist in the
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Instructor in Journalism.

Hammonds, Carsie, M. A.

Professor of Agricultural Education.

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Holmes, Henry Bert, M. A.

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Horine, John Sherman, M. E.

Assistant Professor of Drawing.

Horlacher, Levi Jackson, M. S. in Agr.

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Professor of Machine Design.

Johnson, E. C. B. S.

Assistant Professor of Marketing and Rural Finance.

Johnson, James Richard, B. M. E. Professor of Applied Mechanics.

Jones, Theodore Tolman, M. A.

Professor of Ancient Languages and Literatures; Head of Department.

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KING, MARGARET ISADORE, A. B.
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KNIGHT, GRANT C., A. M.

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Latimer, Claiborne G., Ph. D. Professor of Mathematics.

Lestourgeon, Flora Elizabeth, Ph. D.

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Ligon, Moses Edward, A. M.

Professor of Secondary Education; Principal of University High School.

Lunde, L. M., A. M.
Instructor in History.

MARTIN, JOSEPH HOLMES, M. S. in Agr. Professor of Poultry Husbandry.

MAY, AUGUSTUS NOAH, B. Ped.

Professor of Industrial Education.

McFarlan, Arthur C., Ph. D.

Professor of Geology; Head of Department.

McFarland, Frank T., Ph. D.

Professor of Botany; Head of Department.

Movey, Frank Lerond, Ph. D., LL. D. President, University of Kentucky.

Melcher, Columbus Rudolph, M. A.

Dean of Men; Professor of German Language and Literature;

Head of Department.

MITCHELL, JOHN RICHARD, A. B.

Assistant Professor of Chemistry.

Moreland, Roy, A. B., LL. B.

Associate Professor of Law.

NIMS, ELINOR, Ph. D.

Assistant Professor of Sociology.

Noe, James Thomas Cotton, A. M., Litt. D. Professor of Education.

OLNEY, ALBERT JACKSON, M. H., S. M.

Professor of Horticulture and Assistant Horticulturist in the

Experiment Station.

PALMER, EDGAR Z., Ph. D.

Assistant Professor of Economics.

PATRICK, WELLINGTON, Ph. D.

Director of University Extension; Assistant Professor of Education.

PINNEY, PAUL MARTIN,
Instructor in Journalism.

PLUMMER, LEONARD NIEL
Instructor in Journalism.

PORTMANN, VICTOR R., A. B.

Instructor in Journalism.

RANDALL, FRANK H., A. B., LL. B., S. J. D. Professor of Law.

REEVES, FLOYD W., Ph. D.

Professor of Education; Director, Bureau Educational Research.

Robinson, Lewis Cass, M. S.

Assistant Professor of Geology.

Ross, Clay Campbell, Ph. D.

Professor of Educational Psychology.

RUSSELL, DALE, M. A.

Associate Professor of Education.

Scherago, Morris, B. S., D. V. M.

Professor of Bacteriology; Head of Department.

South, D. E. A. B.

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SPICKARD, RHONELLA, M. A.
State Supervisor Home Economics, Kentucky.

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Associate Professor of Physics.

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Assistant Professor of Public Speaking.

Taylor, William Septimus, Ph. D.

Dean, College of Education; Director of the Summer Session.

Thomas, Adelbert A.

Director of Health Education, Kentucky.

THURMAN, GORDON OWEN

Instructor in Machine Shop.

TROXWELL, JOHN T., A. B.

Assistant Professor of Economics.

VANDENBOSCH, AMRY, Ph. D.

Assistant Professor of Political Science.

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WATKINS, ISAAC GREEN
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Webb, William Snyder, M. S.

Professor of Physics; Head of Department.

WHITEHEAD, GUY
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Wilford, Edward James, B. S.

Associate Professor of Animal Husbandry.

Woods, Ralph H., M. A.

Associate Professor of Agricultural Education.

YATES, LAWRENCE, A. M.

Assistant Professor of English.

ZEMBROD, ALFRED CHARLES, A. M.

Professor of Romance Languages and Literatures; Head of Department.

ZIMMERMAN, ALEO JULIUS, B. S. in Ind. Chem. Instructor in Chemistry.

GENERAL INFORMATION

LENGTH OF SESSION

The summer session of the University of Kentucky for 1929 will be ten weeks in length and will be divided into two terms, the first to begin June 17 and close July 20, and the second to begin July 22 and close August 24.

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 Agriculture, the College of Arts and Sciences, the College of Commerce, the College of Education, the College of Engineering and the College of Law.

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. Students from non-Association member schools may be admitted as unclassified students.

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 a 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, can not 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

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.

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

Military Science (men)

Physical Education

Hygiene

English

3 credit

2.8 credits

1.3 credits

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

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 elective 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.

No student will be allowed to carry fewer than 12 credit hours of work exclusive of Military Science and Physical Education.

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 baccalaurate 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 best suited to each branch of the profession.

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

COLLEGE OF LAW

The summer session in the College of Law for 1929 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. Students who attend three summer sessions will shorten the time required for obtaining the law degree by nine months, and by attending two regular academic sessions will be entitled to the degree of Bachelor of Laws.

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:

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		credits
Military Science (Men)	5.6	credits
Total Academic Subjects	29.3	credits
Professional Subjects		
Psychology of Study	3	credits
Survey of Education		credits
Educational Psychology	3	credits
Tests and Measurements		credits
School Organization	3	credits
Directed Teaching	5	credits
Educational Sociology or Philosophy of Education		credits
	24	credits
GROUP ELECTIVES		
Group Electives in First Minor 24 t		
Group Electives in Second Minor 24 t	o 30	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 institutions not on our accredited list 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

Candidates for the Master of Arts and Master of Science degrees are required to secure twenty-four credits in courses and 36 weeks in residence, and in addition write an acceptable thesis. Only courses numbered above 100 are given graduate credit. At least twelve credits must be done in the major subject. The thesis must be written in this field.

The graduate student is required to take the regular examination in courses and at the completion of the thesis is given an oral examination in his major and minor studies by an examining committee made up of the Dean of the Graduate School and his major and minor professors. At this time he is also expected to defend his 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 attainment, through long study, of independent and comprehensive scholarship in a special field. Such scholarship should be shown by a thorough acquaintance with present knowledge in his special field of learning and a marked capacity for research.

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 docorate. 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 baccalaurate 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 this tickets for the summer session of 1929. 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.

FEES

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 later than one week after the opening 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 22 nor for the second term's work after July 27.

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 on *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 "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 Registrar. No definite room assignments are made until after June 8. No room is held after June 17 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 a term for each person in a room. 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 17 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 no reservation 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 institution receives more requests for teachers than it has applicants for positions. 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 and today the second 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. Assistant 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. Assistant 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. Assistant 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. Assistant Professor Allen.

S 102a. Advanced Physiology. Recitation and laboratory work. Graphic records which show the character of contraction of muscle (skeletal and smooth) are made. This is followed by observing the different factors that vary the character of the contraction. Experiments are performed to show that muscle is a thermogenic and an electrogenic organ. The circulatory system is studied at length with much time given to the consideration of the mechanics of the heart, its ner-

vous regulation and the functional peculiarities of its tissues. The mechanics of the circulation (hemodynamics) which includes the nervous regulation of the blood vessels are also surveyed. The course is terminated with the study of respiration, voice and the production of speech. Prerequisites: Physiology S 1a and S 1b or the equivalent. First term. Two credits. Assistant Professor Allen.

S 102b. Advanced Physiology. Continuation of S 102a. Recitation and laboratory work. The subject material to be covered consists of the gastro-intestinal tract with its secretory organs; the processes of digestion, absorption, excretion, heat production; and the nervous system which includes the functions of the spinal cord, the medulla oblongata, the cerebellum, the cerebrum and the autonomic system. The course will close with an intensive study of the special senseorgans. Practically half of the term will be devoted to the nervous system. First term. Two credits. Assistant 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 elected 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. Profesor 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, and Greek Literature. Under the last head selections from several Greek authors in translation will be read. Open to juniors and seniors. First term. Two credits. Professor Jones.

S 121. Survey of Roman Civilization. This course will begin with a review of Roman History. It will then take up Roman Archaeology, Roman Private and Public Life, and Latin Literature in translation. Juniors and seniors. Second term. Two credits. Professor Jones.

ANTHROPOLOGY AND ARCHAEOLOGY

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

102. Kentucky Archaeology. Lectures. Second term. Two credits. Professor Webb.

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. Miss Bush.

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 Bush.

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 Bush.

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. Mr. Fiske.

S 73a. Drawing and Painting. Landscape painting for more advanced students. Three credits. Second term. Mr. Fiske,

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. Both terms. 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 and Assistant Professor Weaver.
- 103. Pathogenic Bacteriology. Cultivation, morphology, means of identification, powers of resistance, pathogenesis, distribution, channels of infection and means of dissemination of pathogenic microorganisms, especially those related to the specific infectious diseases of man and animals. Study of preparation, standardization and uses of vaccines, toxins, antitoxins and other biological products related to the diagosis, prevention and treatment of specific infectious diseases. Application of the various phenomena of immunity in the diagnosis of infectious diseases; agglutiantion, precipitation and complement fixation reactions. Anaphylaxis. Prerequisite, course 102 or 2b. First term. Four credits. Professor Scherago.
- 106. Bacteriology of Foods. Microbiology of milk and milk products, eggs, tomato products, meat and meat products; food preservation; bacterial food poisoning. Prerequisite, course 2b or 102. Second term. Four credits. Assistant Professor Weaver.
- 110b. LABORATORY DIAGNOSIS. Laboratory methods employed in the public health diagnostic laboratories. Students must obtain permission in writing from the instructor, to register in this course. First term. Three credits. Professor Scherago.
- 201b. Research in Bacteriology. Second term. Five credits. Assistant 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.
- 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 McFarland and Assistant.
- 15. LOCAL FLORA. This course is designed to acquaint the student with the more common kinds of flowering plants and ferns in the vicinity of Lexington. Most of the time will be spent in identification, but lectures will be included as needed. Students may enter this course only on the approval of the head of the department. Prerequisite: Botany 1a and 1b. First term. Three credits. Professor McFarland.
- 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. Professor McFarland.

CHEMISTRY

- 1a. General Inorganio 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. Assistant Professor Barkenbus.
- 8. QUANTITATIVE ANALYSIS. Prerequisite, Chemistry 4. Recitation and laboratory work. Both terms. Five credits. Assistant Professor Bedford.

- 106. Advanced Organic Chemistry. Prerequisite, Chemistry 113b. Laboratory work. Both terms. Five credits. Assistant Professor Barkenbus.
- 109. QUANTITATIVE ANALYSIS. Prerequisite, Chemistry 8. Recitation and laboratory work. Both terms. Five credits. Assistant Professor Bedford.
- 115a. Physical Chemistry. Recitation and laboratory work. First term. Three credits. Assistant Professor Bedford.
- 115b. Physical Chemistry. Prerequisite, Chemistry 115a. Lectures, recitations and laboratory work. Second term. Three credits. Assistant Professor Bedford.

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 instruction will be based upon the study of representative English masterpieces. Required of all freshmen. Both terms. Two credits. First term, Assistant Professor Yates. Second term, Mr. Galloway.
- 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. Two credits. Both terms. Assistant Professor Yates.
- 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. Second term. Assistant Professor Yates.
- 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. First term. Professor Yates.
- S 7a. ELEMENTS OF PUBLIC SPEAKING. Fundamentals of practical public speaking. Emphasis placed on clear, distinct speech, enunciation, pronunciation, voice and conversational delivery. Two 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. Two credits. Second term. Assistant Professor Sutherland.
- S 105. Browning. An intensive study of the art and teaching of Browning. Two credits. First term. Professor Dantzler.

S 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. Two credits. Second term. Associate Professor Brady.

S 110. SHAKESPEARE. Shakespeare's plays are studied in an effort to appreciate drama and art. Two credits. First term. Associate Professor Knight.

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

S 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 reading. Two credits. First term. Associate Professor Knight.

S 114b. AMERICAN LITERATURE. Two credits. Second term. Assistant Professor Yates.

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

S 127a. LITERATURE OF THE BIBLE. A literary study of the Bible by books. Two credits. First term. Professor Farquhar.

S 130b. COMPARATIVE LITERATURE. Contributions of Greek and Roman thought to modern civilization. Classics read in translation. Two credits. Second term. Associate Professor Brady.

S 137. EDGAR ALLAN POE. An intensive study of the work of Poe. Two credits. First term. Professor Farquhar.

S 142. English Literature of the Rennaissance. 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 Auccasin and Nicollette to Lodge's Rosalind. Two credits. Second term. Mr. Galloway.

S 140. ENGLISH LITERATURE FROM 1660 to 1774. A survey of those literary types which have their origin or are developed in the Augustan age. Two credits. Second term. Mr. Galloway.

S 202a. Contemporary Drama. A course for graduate students only. Two credits. First term. Professor Farquhar.

S 206. Alfredian Prose. A course for graduate students only. Two credits. First term. Professor Dantzler.

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

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.

S 2b. ELEMENTARY GEOLOGY. A continuation of Geology 2a, including one-half semester of Historical Geology. The latter deals with the outstanding features of the physical development, particularly of North America, and the appearance and development of ancient life. Second term. Two credits. Assistant Professor Robinson.

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. Professor McFarlan.

16b. MINERAL RESOURCES. An elementary study of the non-metallic mineral resources of the United States with respect to their origin, geologic occurrence, distribution, and uses. Second term. Two credits. No prerequisite but not open to freshmen. Assistant Professor Robinson.

S 18. 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. Second term. Two credits. Assistant Professor Robinson.

GERMAN LANGUAGE AND LITERATURE

S 1a. ELEMENTARY GERMAN. Six hours a week. First term. Two credits. Profesor 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. Profesor 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 1a. THE ANCIENT WORLD. An introduction to history, beginning with the earliest nations and continuing with the classical world. Open to freshmen. Two credits. First term. Associate Professor Knapp.

S 1b. THE ANCIENT WORLD. A continuation of History 1a, with emphasis on the Roman world. Two credits. Second term. Associate Professor Knapp.

S 4a. Introduction to Modern Europe. A general survey of the rise of modern states in Europe, with related topics. Text. Class reports. Open to freshmen. Two credits. First term. Mr. Lunde.

S 4b. Introduction to Modern Europe. A continuation of Course 4a, treating European conditions since 1648, based on Schevill's History of Europe. Open to freshmen and others offering 4a or equivalent. Two credits. First term. Mr. Lunde.

S 5a. HISTORY OF THE UNITED STATES. Beginning with the colonies about 1750, omitting most of the military campaigns but emphasizing the fundamental progress of the nation to 1860. Topics and reports. Two credits. First term. Mr. Lunde.

- 6. AMERICAN CONSTITUTIONAL HISTORY. The development of the chief features of the American system and the issues involved. Two credits. Second term. Associate Professor Knapp.
- 7. RECENT AMERICAN MOVEMENTS. The populistic and progressive movements, tariff, political parties, suffrage, and the national welfare since 1890. Two credits. Second term. Mr. ————.
- 30. English Constitutional History. Designed to present the principal documents and features of the growth of English laws and institutions. Recommended to students of law. Two credits. Second term. Mr.———.

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 107a. LATIN AMERICA. A rapid survey of the colonial period of Latin America, the struggle for independence, and the development of problems—political, economic, and social. Lectures, text, and readings. First term. Two credits. Associate Professor Knapp.

160. THE CIVIL WAR PERIOD IN KENTUCKY. A close study of neutrality, war and readjustment with emphasis on political, economic, and social developments in Kentucky from 1860 to 1870. Open only to advanced students. Two credits. Second term. Mr. ————.

165. THE AMERICAN CIVIL WAR. The raising of troops, major strategies of the war, with especial attention to slavery, foreign affairs, politics and economic life. Open only to graduate students. Two credits. Second term. Associate Professor Knapp.

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

HYGIENE

HYGIENE 1. A lecture course which covers in a general and popular way the work done in preventive medicine. It covers communicable diseases, deficiency diseases, immunity, food nutrition, water purification, sewage disposal and vital statistics. Both terms. 1.3 credits. First term, Dr. Chambers. Second term, Mr. Pinney.

105a. A lecture course which deals more fully with the specific problems of preventive medicines, especially of communicable diseases, nutrition and deficiency diseases and the practical application of methods of prevention. First term. Prerequisite, Hygiene 1. Two credits. Dr. Chambers.

105b. A continuation of 105a. Two credits. Second term. Mr. Pinney.

JOURNALISM

S 1a. First Year Journalism. Typewriting, reporting. First term. Two credits. Mr. Plummer.

S 2a. Second Year Journalism. Feature writing. First term. Two credits. Mr. Griffin.

S 3a. ETYMOLOGY. First term. Two credits. Mr. Plummer.

- S 3b. VERBAL CRITICISM. First term. Two credits. Mr. Plummer.
- S 7. JOURNALISM. Community journalism. The study of the small city daily and the community weekly. First term. Two credits. Mr. Portmann.
- S 105. JOURNALISM. Study of the Law of Libel, Copyrighting, etc., as regards the press. Second term. Two credits. Mr. Portmann.
- S 106. JOURNALISM. Ethics and Principles of Journalism. The ethical and policy side of newspaper work. Second term. Two credits. Mr. Portmann.
- S 107. JOURNALISM. Study and practice in the writing of editorials. Second term. Two credits. Mr. Portmann.

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

MATHEMATICS

- S 1. ELEMENTARY ALGEBRA. This course is designed for those who enter the University with only one unit of high school mathematics, and is prerequisite for Mathematics 4 and 5. Open only to college students. Quadratics and beyond. Second term. Two credits. Professor Latimer.
- S 2. Solid Geometry. This is given primarily for engineering students who enter conditioned in solid geometry. It is a prerequisite for analytics. Second term. Two credits. Mr. South.
- S 4. PLANE TRIGNOMETRY. A thorough course in plane trignometry 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. Mr. Chambers.
- 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. South.
- 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. First term, Four credits. Mr. Chambers.

S 7a. DIFFERENTIAL CALCULUS. A course covering most of the subject 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. First term. Four credits. Professor LeStourgeon.

S 7b. Integral Calculus. A continuation of 7a. Both terms. Two credits. First term, Mr. Brown. Second term, Mr. Latimer.

S 14. MATHEMATICS OF FINANCE. First term. Four credits. Mr. Brown.

*S 105a. DIFFERENTIAL EQUATIONS. First term. Two credits. Professor LeStourgeon.

*S 106a. Advanced Calculus. First term. Two credits. Professor LeStourgeon.

*S 109. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE. First term. Two credits. Professor LeStourgeon.

*S 110b. INDEPENDENT WORK. First term. Two credits. Professor LeStourgeon.

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

†S 104. ADVANCED ANALYTICS. Second term. Two credits. Professor Latimer.

†S 118. SOLID ANALYTICS. Second term. Two credits. Professor Latimer.

NOTE.—Only one of the courses marked * will be given the first term. NOTE.—Only one of the courses marked † will be given second term.

PHYSICAL EDUCATION

S 8. Basketball for Women. Girls' rules. History and development of basketball for women. The coach. Technique of the game. Offensive and defensive play. Officiating. Competition. First term. One credit.

S 10. RURAL GAMES. Plays and games for graded and rural schools. First term. One credit.

S 12. FOLK DANCING. Folk rythms and dances of many lands adapted for teaching in grade and high schools. First term. One credit.

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 Black.
- 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. Professor Webb.
- 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. Associate 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. Associate Professor States.
- S 5. MEASUREMENTS IN MECHANICS AND HEAT. Prerequisite, credit in or simultaneous study of Physics 3a. Lecture two hours per week. Laboratory eight hours per week. First term. Two credits. Associate Professor 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. Associate Professor States.
- S 51a. Introduction to Physics. A non-mathematical, non-laboratory introduction to Physics, consisting of five demonstration lectures and one recitation per week, covering the subject of mechanics, heat and sound. Lectures are arranged to stimulate interest in the science of Physics by making its introduction popular, as well as scientific. Content and method of presentation should be helpful and of interest to all teachers of General Science, Physics and Chemistry in High Schools. First term. Two credits. Professor Black.
- S 51b. Introduction to Physics. A continuation of S 51a. Second term. Two credits. Professor Webb.
- 112a. Physical Manipulations. Prerequisite, college physics or college chemistry. Laboratory 6 hours per week. First term. One credit. Associate Professors States, Black and Mr. Schneider.

112b. Physical Manipulations. Prerequisite, college physics or college chemistry. Laboratory 6 hours per week. Second term. One credit. Associate Professors States, Black and Mr. Schneider.

114a. RADIO COMMUNICATION. Prerequisites, Physics 3b and 6. Lecture and recitation three hours a week, laboratory four hours a week. First term. Two credits. Associate Professor States.

114b. Radio Communication. Prerequisite, Physics 114a. A continuation of S 113a. Second term. Two credits. Associate 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. Associate Professor 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. Associate 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. The problems dealt with are the newspaper, the negro problem, feminism and the woman movement. capital and labor, socialism, international relations. First term. Two credits. Professor Vandenbosch.

S 15b. PROBLEMS OF CITIZENSHIP. A continuation of course S 15a. Second term. Two Credits. Professor Vandenbosch.

S 51a. AMERICAN GOVERNMENT. A study of the foundation of the American federal government and a close-up view of the machinery of the federal government at work. First term. Two credits.

S 51b. AMERICAN GOVERNMENT. A continuation of course S 51a, with a part of the time devoted to the work of the state and local governments. Second term. Two Credits.

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. First term. Two credits.

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.

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.

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. First term. Two credits. Professor Vandenbosch.

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 or 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. Professor Vandenbosch.

S 165a. World Politics. A study of the political maneuvers of the important nations of the world that led up to the world war. Second term. Two credits.

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. Second term. Two credits. Professor Vandenbosch.

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. Professor Vandenbosch.

PSYCHOLOGY

S 1. Introductory Psychology. For those who have never had psychology in college. The course covers in an elementary and brief manner the main facts and laws of normal human behavior. Recitations and demonstrations. Second term. Two credits. Mr. Asher.

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. A more complete and thorough analysis than is possible in the briefer course, S 1. Recitations and demonstrations. First term. Four credits. Assistant Professor Graham.

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 5. PSYCHOLOGY OF ADVERTISING AND SELLING. A study of the fundamental psychological principles upon which both advertising and salesmanship are dependent. A fundamental course in applied psycho-

logy. Second term. Two credits. Mr. Asher.

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. Associate Professor Boynton.

S. 102b. Genetic Psychology. A study of the nature and course of human development. Particular stress will be placed upon the life periods from birth to five years and from fourteen to twenty years. An introductory course in psychology is prerequisite. Two credits. Second term. Associate Professor Boynton.

\$ 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. Assistant Professor Graham.

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 department in business and industry. The scientific practices in the study of labor turnover; the selection and placement of employees, their

training, supervision, and motivation. 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 scoring central tendencies and deviations is assumed. No one admitted except by consent of instructor. Two credits. Second term. 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. Second term. Two credits. Mr. Holmes.

S 1b. ELEMENTARY FRENCH. Continuation of French 1a. Prerequisite, one year of high school French or French 1a. First term. Two credits. Assistant Professor Horsfield.

S 2a. Intermediate French. Prerequisite, two years of high school French or two semesters of college French. First term. Two credits. Assistant Professor Horsfield.

S 2b. Intermediate French. Continuation of French 2a. Second term. Two credits. Mr. Holmes.

S 6a. French Novel and Drama. First term. Two credits. Assistant Professor Horsfield.

S 109a. French Literature of the Ninteenth Century. First term. Two credits. Professor Zembrod.

S 113a. Advanced Grammar. Syntax, Composition. For graduate students only. First term. Two credits. Professor Zembrod.

S 114a. INDEPENDENT WORK. First term. Two credits. Professor Zembrod.

§ 5a. ELEMENTARY SPANISH. A course in Spanish for beginners. Both terms. Two credits. First term. Professor Zembrod. Second term. Mr. Holmes.

S 7a. Intermediate Spanish. Prerequisite, two years of high school Spanish or two semesters of college Spanish. First term. Two credits. Assistant Professor Horsfield.

S 7b. Intermediate Spanish. A continuation of Spanish 7a. Second term. Two credits. Mr. Holmes.

S 104a. Spanish Literature of the Seventeenth Century. First term. Two credits. Professor Zembrod.

SOCIOLOGY

Soc. 1a. Principles of Sociology. An introductory course dealing with the principles and aims of sociology through a consideration of social origins, social evolution, social institutions and social progress. Not open to seniors. First term. Two credits. Miss Nims.

Soc. 104. Rural Social Economy. Prerequisite: Sociology 1a. A general course dealing with the major social problems as found in rural areas. Special consideration will be given to the movement of population, to the standard of living of rural people, to the changing status of institutions such as the church and school, and to the historical development and change in rural life in America. An attempt will also be made to study the methods that have seemed most successful in rural communities for meeting these problems, especially those experiments in co-operation between the social worker and the health worker, or the school official or the law enforcing agency. Not open to freshmen. First term. Two credits. Miss Nims.

Soc. 109. THE FAMILY. Prerequisite: Sociology 1a. The purpose of this course is to study the problems of the modern family from the standpoint of the social function of the family. The following topics will be considered: (1) the institutional family; (2) the home; (3) disorganization and disintegration; (4) the future of the family. Not open to freshmen. First term. Two credits. Miss Nims.

ZOOLOGY

1a. General Zoology. Recitations and laboratory. First term. Four credits. Professor Allen.

1b. General Zoology. Recitations and laboratory. Second term. Four credits. Professor Allen.

S 102. Ornithology. Lectures and recitations. First term. Two credits. Professor Funkhouser.

107a. Comparative Anatomy. Lecture and laboratory. First term. Four credits. Professor Allen.

107b. Comparative Anatomy. Lecture and laboratory. Second term. Four credits. Professor Allen.

108b. Principles of Zoology (Heredity) Lectures. First term. Two credits. Professor Funkhouser.

COLLEGE OF AGRICULTURE

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

AGRONOMY

- 1. Soils. An introductory general course on soil formation, physical, chemical and biological properties and processes in relation to tillage, fertilization, cropping and productivity. Prerequisites, Chemistry 1a and 1b. First term. Four credits. Associate Professor Karraker.
- 106. FIELD CROP IMPROVEMENT. The application of the principles of genetics to plant improvement, technique of plant breeding and the results of plant breeding are studied. Prerequisites, Agronomy 11 and A. I. 119. First term. Two credits. Associate Professor Fergus.

ANIMAL INDUSTRY

- 21. Market Classes and Grades of Livestock. This course is given in the freshman year to familiarize the students with the market demands of livestock. The students are taught the fundamentals of livestock judging by the use of the score card and comparative placing of animals. Animals representing the various market classes and grades are used in laboratory work and the students taught to recognize the merits of the animals and to place their market value on them. Two credits. First term. Assistant Professor Harris.
- 104. Animal Breeding. The purpose of the course in Animal breeding is to acquaint the student with the origin of domestic livestock, with the development of the pure bred breeds of livestock, with an analysis of the blood lines of the breeds, with a study of the methods by which the breeds have been built up and are being maintained and are being maintained and with the possibilities of future breed improvement. Prerequisite, A. I. 119. Four credits. First term. Professor Anderson.
- 106. PORK PRODUCTION. Three credits. First term. Associate Professor Wilford.
- 107. SHEEP PRODUCTION. Three credits. Second term. Associate Professor Horlacher.
- 112. ADVANCED POULTRY PRODUCTION. Four credits. First term. Professor Martin.
- 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 Livestock Production. The aim of this course is to give a broad general view of the livestock industry. A study is made of livestock production in the more important countries. Three credits. Second term. Associate Professor Horlacher.

124. ADVANCED STUDY OF BREEDS OF DAIRY CATTLE; JUDGING. Four credits. First term. Professor Ely.

FARM ECONOMICS

107a. Special Problems in Farm Management. Problems assigned will bear on some phase of the general problem of efficient farm organization and management. Among the problems which may be considered are: (1) Input as related to output in farm organization and cost of production; (2) Choice and combination of enterprises as related to efficiency; (3) Land values as related to profits and other factors. Original data obtained by the Department of Farm Economics in various field studies will be available for use in the problems assigned. Three credits. First term. Assistant Professor Finn.

HORTICULTURE

1. General Horticulture. A comprehensive study of the field of horticulture, designed to facilitate further acquirement for those who later consider the subject in detail, and at the same time provide a useful treatment of the subject for those whose chief interest will lie in other fields. The course includes a study of fundamental principles involved in the fuctioning of fruit trees and an outline of the methods and problems of the fruit grower. Since it is given wholly within the growing season, laboratory and field observations will be especially emphasized. Required of Sophomores. Four credits. First term. Professor Olney.

MARKETS AND RURAL FINANCE

S 108. Marketing. A study of the principles and methods of marketing farm products. Consideration is given to methods of marketing at country points and in central markets; the classes and functions of middlemen; problems of assembling, grading, transporting, warehousing and selling; market information; market risk and future trading; marketing costs; weaknesses in marketing and remedies proposed. Prerequisite, Economics 1a. Two credits. First term. Assistant Professor Johnson.

S 109. Cooperative Marketing. A study of the principles, methods and problems involved in the cooperative marketing of farm products. Cooperative developments in the marketing of various farm products are studied. Consideration is also given to forms of organiza-

tion, pooling, membership contracts, financing, business practices, essentials for success and monopolistic aspects. Prerequisite, Markets, and Rural Finance 108. Two credits. First term. Assistant Professor Johnson.

HOME ECONOMICS

- 3. Foods and Nutrition. The quantitative study of the chemical bases of foods and nutrition. It includes consideration of the structure of food in its relation to utilization in the body. Nutrition is discussed from the standpoint of its biological factors. Four credits. First term.
- 6b. Foods. A continuation of Foods 6a. The course includes meal service with special emphasis on development of skill in the technique of cookery. Four credits. First term. Miss Barkley.
- 31. ELEMENTARY DRESSMAKING. The course includes construction of dresses, shirts and undergarments using linen, cotton and silk materials. Two 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. Three credits. First term. Miss Wade.
- 42. Home Management. A study of the problems of home management. Students are required to live eight weeks in the University home management house and perform all duties which form a part of the average home. Records are kept of expenditures and of the time spent in the various activities. Five credits. First term. Miss Foster.
- 110. Child Care. Survey of the field of child care and training from pre-natal life through the pre-school period. It includes consideration of problems of pre-natal life and infancy; standards for normal growth; breast and artificial feeding; habit formation; general care and hygiene. 2 credits. First term.
- 116. ADVANCE COSTUME DESIGN. A historical survey of fashions with attention to influence of the ages on present day designs. Costume for pageants and plays are planned. Three credits. First term Miss Wade.

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.

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. Second term. Two credits. Professor Freeman.

- 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. Second term. Two credits. Professor Freeman, or 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 S 1. First term. One credit. Professor Bureau, or 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. Professor Bureau, or 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 references 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.
- 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 establishment. Prerequisites, Drawing 4b. Engineering Mechanics 3 must have been completed or taken at the same time. First term. Three credits 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 Jones.
- 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. First term. One credit. Mr. Watkins.

PRACTICAL MECHANICS

- S 7a. Wood Shop and Foundry. This course covers bench work, wood turning and pattern making. First term. Two credits. Assistant Professor Dicker and others.
- S 7b. Wood Shop and Foundry. 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

COMMON LAW PLEADING. Six hours per week for five weeks, from the 17th day of June to the 20th day of July. Sunderland's Cases. 7:30 to 8:20 daily. Two credits. Professor Randall.

CODE PLEADING. Six hours per week for five weeks, from the 22nd day of July to the 24th day of August. Sunderland's Cases. 7:30 to 8:20 daily. Two credits. Professor Randall.

REAL PROPERTY. Six hours per week for five weeks, from the 22nd day of July to the 24th day of August. Warren's Cases. 8:30 to 9:20 daily. Two credits. Professor Moreland or Professor Evans.

LEGAL LIABILITY. Six hours per week for five weeks, from the 17th day of June to the 20th day of July. Beale's Cases. 8:30 to 9:20 daily. Two credits. Professor Evans.

SECOND AND THIRD YEAR SUBJECTS

QUASI-CONTRACTS. Six hours per week for five weeks, from the 17th day of June to the 20th day of July. Thurston's Cases. 10:30 to 11:20 daily. Two credits. Professor Chalkley.

BANKRUPTCY. Six hours per week for five weeks, from the 17th day of June to the 20th day of July. Holbrook & Aigler's Cases. 9:30 to 10:20 daily. Two credits. Dependent upon whether Bankruptcy or Equity I is given. Professor Moreland.

EQUITY I. Six hours per week for five weeks, from the 17th day of June to the 20th day of July. Cook's Cases. Dependent upon whether Equity I or Bankruptcy is given. 9:30 to 10:20 daily. Two credits. Professor Moreland.

Mortgages. Six hours per week for five weeks, from the 22nd day of July to the 24th day of August. Kirchway's Cases. 9:30 to 10:20 daily. Two credits. Professor Evans.

EQUITY II. Six hours per week for five weeks, from the 22nd day of July to the 24th day of August. Cook's Cases. 9:30 to 10:20 daily. Two credits. Professor Moreland. (Dependent on whether Bankruptcy or Equity II is given the first term.)

LEGAL ETHICS. Six hours per week for five weeks, from the 22nd day of July to the 24th day of August. Costigan's Cases. 10:30 to 11:20 daily. Two credits. 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. Associate Professor Russell.

102. Kentucky School Law. A comparison of the school laws of Kentucky with school laws of other states. Second term. Two credits.

S 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. Second term. Two credits. Mr. Blackwell.

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.

S 202. CITY SCHOOL ADMINISTRATION. Second term. Two credits.

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 204b. THE ADMINISTRATION OF HIGHER EDUCATION. A continuation of Education 204a. Second term. Two credits. Professor Reeves.

205. Problems of College Teaching. Second term. Two credits. Professor Reeves.

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

S 231. Financing Public Education. A critical study of the costs of education and of methods for providing funds to meet these costs. Second term. Two credits. Professor Russell.

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.

321a, b. Special Problems in Higher Education. Second term. Three credits. Professor Reeves.

AGRICULTURAL EDUCATION

S 180. 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. Professor Hammonds.

187. ADVANCED PROBLEMS IN AGRICULTURAL EDUCATION. The specific problems considered vary according to the needs of the group. First term. Two credits. Professor Hammonds.

S 188. FARM PRACTICE SUPERVISION. Both terms. One credit. Associate Professor Woods.

EDUCATIONAL PSYCHOLOGY

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

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

122b. EDUCATIONAL TESTS AND MEASUREMENTS. A continuation of 122a. Second term. Two credits. Professor Patrick.

S 147. PSYCHOLOGY OF SECONDARY EDUCATION. This course aims to develop the fundamental principles of secondary education. It will include a discussion of the development of the secondary curriculum and its relationship to college. First term. Two credits. Professor Ligon.

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. First term. Two credits. Professor Ross.

ELEMENTARY EDUCATION

36. Teaching Reading in the Elementary Grades. A practical course in methods of teaching oral and silent reading in the elementary grades. Discussion of aims, type lessons, means of testing and appropriate reading material for each grade. Both terms. Two credits. Mrs. Duncan.

40. HISTORY AND GEOGRAPHY IN THE UPPER GRADES. This course has been planned primarily for rural and grade school teachers and will involve a critical study of methods and content in teaching history and geography in the University school. First term. Two credits. Mrs. Duncan.

42. ARITHMETIC IN THE ELEMENTARY SCHOOL. A course primarily for teachers who desire the training in methods in arithmetic for elementary school work. Second term. Two credits. Mrs. Duncan.

43. TEACHING LITERATURE TO CHILDREN. A course in story telling and study of stories, poems and books suitable for various ages and stages of development from grades I to VI. Both terms. Two credits. Mrs. Duncan.

130a. THE TEACHING OF HEALTH IN THE PUBLIC SCHOOLS. A course dealing with the objectives of health education and methods of reaching these objectives through instruction. This course is intended primarily for teachers in the grades and high schools who are teaching this subject. First term. Two credits. Dr. Chambers.

130b. The Teaching of Health in the Public Schools. A continuation of Education 130a. Second term. Two credits. Miss Thomas.

S 145. Rural School Supervision. The work in this course is taken up from the viewpoint of the supervisor in the rural field. Stress will be laid upon (1) the principles or organization for supervision in order to bring about a greater economy of the supervisor's time; (2) an intensive discussion of the problems of the supervisor with suggestions on how to solve them, and (3) agencies through which the work of the supervisor may best function. First term. Two credits. Professor Patrick.

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. 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 120. 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. First term. Two credits. Professor Noe.

HOME ECONOMICS EDUCATION

S 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. Two credits. Miss Spickard.

S 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. Two credits. Miss Spickard.

S 168. Home Economics Curriculum Construction. A study of the underlying principles of curriculum building for junior and senior high school home economics. Special emphasis will be given to the Kentucky problem. Graduate and undergraduate credit. First term. Two credits. Miss Spickard.

INDUSTRIAL EDUCATION

S 74. Vocational Guidance. A course designed to give teachers, principals, superintendents and welfare workers a comprehensive view of the factors in vocational guidance, the agencies contributing to or influencing life choice and an analysis of the human and economic resources of a given civic unit. First term. Two credits. Professor May.

S 72. Special Methods in Trade and Industrial Education. This is a course which is intended to meet the needs of teachers who have had experience and can profit by a round table discussion of the improvement of methods of teaching of trade and industrial subjects. This course should be required of every teacher receiving subsidy for any phase of industrial education. First term. Two credits. Professor May.

S 75. REORGANIZATION OF INDUSTRIAL ARTS. This is a much needed course for persons interested in the problem of adjustment of industrial arts education and has to do with the factors of reorganization, curricula construction, case-type learners, objectives of industrial arts and objectives of vocational education. First term. Two credits. Professor May.

LIBRARY TRAINING

- 50. Book Selection. First term. Two credits. Miss King.
- 51. CATALOGING AND CLASSIFICATION FOR THE SCHOOL LIBRARY. First term. Two credits.
 - 52. REFERENCE AND BIBLIOGRAPHY. First term. Two credits.

PHILOSOPHY OF EDUCATION

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

114b. Educational Sociology. A continuation of Education 114a. Second term. Two credits. Mr. Blackwell.

127a. 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.

127b. Principles of Curriculum Construction. A continuation of Education 127a. Second term. Three credits. Professor Adams.

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. Mr. Holloway.

200. Advanced Course in Philosophy of Education. First term. Three credits. Professor Adams.

205. REVIEW OF EDUCATIONAL LITERATURE. Second 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.

SECONDARY EDUCATION

S 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. Two credits. Professor Ligon.

S 126. 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. First term. Two credits. Professor Ligon.

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

135. THE SOCIAL SCIENCES IN THE HIGH SCHOOL. A course dealing with the organization of the materials 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. First term. Two credits. Mr. Godman.

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. First term, Mr. Godman.

S 150. 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. Professor Ligon.

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. Assistant Professor Palmer.
- 1b. PRINCIPLES OF ECONOMICS. Continuation of 1a. Not open to freshmen or commerce students. Second term. Three credits. Professor Jennings.
- 2. Economic History of Europe. A survey of conditions preceding the modern period with a more intensive study of the subsequent development of agriculture, industry, and finance; the effects of these several lines of development upon the national life. Open only to freshmen and sophomores. First term. Three credits. Professor Jennings.
- 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.
- 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 or concurrent course Ia. First term. Three credits. Assistant Professor Troxell.
- 103. Transportation. Growth of the railway net; pools and traffic association; principles and practice of rate-making as exemplified by the decisions of the Interstate Commerce Commission and the courts; state and federal regulation, with comparison of policies in foreign countries. Prerequisite or concurrent, course 1a. First term. Three credits. Assistant Professor Troxell.
- 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 or concurrent, courses 1 and Mathematics 14. First term. Three credits. Assistant Professor Palmer.
- 115. CONTEMPORARY ECONOMIC THOUGHT. A survey of current literature of theoretical economics. Special emphasis is placed on theories of value and distribution. Prerequisite, course 1. Second term. Three credits. Assistant Professor Palmer.

- 126. Economics of Public Utilities. The following topics are discussed in this course: Growth and development of public utilities; valuation; rate-making; financing; the holding company; regulation; current problems; accounting. Prerequisite, course 1a. Second term. Three credits. Assistant Professor Troxell.
- 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. Second term. Three credits. Professor Jennings.

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
Fourth 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
S1a S1b S106a S106b S102a S102b	ANATOMY and PHYSIOLOGY General Physiology General Physiology Endocrinology Endocrinology Advanced Physiology Advanced Physiology Advanced Physiology	2 2 2	1 2 3 4 By Appt. By Appt.	D D D D	ananan	207 207 207 205	Allen Allen Allen Allen Allen Allen
S150a S3 S4 S109 S120 S5	ANCIENT LANGUAGES Teachers' Course in Latin Cicero Virgil Latin Literature (Selections) Greek Life and Literature Livy ANTHROPOLOGY AND ARCHAEOLOGY	2 2 2 2	1 2 4 3 5 6	D D D D D	A A A A A	303 303 303 303	Jones Jones Jones Jones Jones
101	Principles of Anthropology	2	5	D	C&P	200	Funkhouser
S1a 2a 10	ART Drawing and Painting	2 2	1, 2 4 By	D D Appt.	AC AC AC		Bush Bush Bush Bush
8 102 ₁ 102 ₂ 103 ₁ 103 ₂ 110b	Bact. in Rel. to Man	4	2 2 3, 4 1 4, 5 By Appt.	D D D D	KH KH	214 Sb12 B13 Sb12	Weaver Scherago Weaver Scherago Scherago Scherago
1a ₁ 1a ₂ 15 20	General Botany, LecRec General Botany, Lab Local Flora	100000	2 3, 4 3, 4 1	D D D D	WH WH WH WH	102 103	McFarland McFarland McFarland McFarland
1a. 4	CHEMISTRY General Inorganic Chemistry Qualitative Analysis		1, 2, 3, 4	D D	KH {	111 200 201 101 202	and others Zimmerman

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
	CHEMISTRY—Cont.						
7	Organic Chemistry	4	1, 2, 3	D	KH (209) Barkenbus
8	Quantitative Analysis	5	1, 2, 3, 4, 5	D	KH {	215 111 113	
106 109	Advanced Organic Chemistry Quantitative Analysis	5 5	By Appt. 1, 2, 3, 4, 5		KH (Barkenbus Bedford
115a	Physical Chemistry	3	1, 2	D	KH {	B14 B17	Bedford
	ENGLISH LANGUAGE AND LITERATURE						
\$1a \$1b \$3b \$105 \$110 \$111 \$114a \$120 \$127a \$137 \$202a \$206	English Composition English Composition History of English Literature. Browning Shakespeare English Novel American Literature Pronunciation of Mod. English Literature of the Bible Edgar Allan Poe Contemporary Drama Alfredian Prose	2 2 2 2 2 2 2 2 2	1 2 3 3 2 1 4 2 2 1 4 4 2 4 4 4 4 4		McVH McVH McVH McVH McVH McVH McVH McVH	203 203 211 200 200 211 230 230 230	Yates Yates Yates Yates Dantzler Knight Knight Knight Dantzler Farquhar Farquhar Farquhar Dantzler
S2a 10 16a	GEOLOGY Elementary Geology Geology of Kentucky Mineral Resources	2 2 2	1 2 4		aaa	203	McFarlan McFarlan McFarlan
	GERMAN LANGUAGE AND LITERATURE						
S1a S1b S2a S2b S3a S3b S4a S6	Elementary German Elementary German Intermediate German Intermediate German Composition and Reading Adv. Reading and Composition Scientific and Journalistic Ger. Special arrangements will be made for students who cannot accommodate themselves to this schedule. HISTORY	2 2 2 2 2 2 2 2	1 2 3 3 4 4 (By Appt. By Appt.	D D D D D	A A A A A A A A	203 203 203 203 203 203	Melcher Melcher Melcher Melcher Melcher Melcher Melcher
S1a S4a	The Ancient World		1 1	D D	AAA		Knapp Lunde

					5		
Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
S5a S105 S107a 181	HISTORY—Cont. Intro. to Modern Europe (Continuation of S4a) History of the U. S. (to 1860. Prerequisite one year college history) Colonial America Latin America American Historiography HYGIENE Hygiene	2 2 2 2 1 1 1.3	4 3 4 8	D D D D MWF	A A A A A	204 205 205 205 205	Lunde Lunde Knapp Knapp Knapp Chambers
105a	Advanced Hygiene	2	2	D	A	4	Chambers
S2a	JOURNALISM Reporting	2 2 2 2 2 2	2 1 2 3 4	D D D D	McVH McVH McVH McVH	54	Plummer Griffin Plummer Plummer Portmann
S4 S6 S7a S7b S14 *S105a *S106a *S109 S110b	MATHEMATICS Plane Trigonometry Analytic Geometry Differential Calculus Integral Calculus Mathematics of Finance Differential Equations Advanced Calculus Theory Fctns. Complex Variable Independent Work PHYSICAL EDUCATION	4 2 4 2 2 2	1, 2 3, 4 1, 2 3 4, 5 5 5 5 5 8y Appt.	D D D D D D D	McVH McVH McVH McVH McVH McVH McVH McVH	100 104 107 107 104 104 104	Chambers Chambers LeStourgeon Brown Brown LeStourgeon LeStourgeon LeStourgeon LeStourgeon
S8 S10 S12	Basketball for WomenFolk Dancing PHYSICS	. 1	2 5 3	D D D	WG WG WG		
$\begin{cases} 1a \\ 1a \\ 1a \end{cases}$ $3a \\ \begin{cases} S5 \\ S5 \end{cases}$	Gen. Elementary Physics, Lec Gen. Elementary Physics, Rec Gen. Elementary Physics, Lab General Col. Phy., Lec. and Rec. Measurements in Mech. and Heat, Lec. Measurements in Mech. and Heat, Lab.	-	$\begin{bmatrix} 1 \\ 2 \\ 3, 4 \\ 3, 4 \end{bmatrix}$ $\begin{bmatrix} 1 \\ 1, 2 \\ 2 \end{bmatrix}$	D D MWF D TTh MWF TTh	C&P C&P C&P C&P C&P	200 203 200 103	Black Black Black and Asst. States States States & Asst.

^{*}Advanced courses.

Note: -Only one of the starred courses will be given. Choice will be left to the class.

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
S51a S223a *112a *114a	PHYSICS—Cont. Introduction to Physics, Lec General Physics Physical Manipulations Radio Communication	6	By Appt. By Appt. By Appt.	D	C&P C&P C&P	200	Black States States, Black & Schneider States
S15a S51a S152 S160 S171 S101	POLITICAL SCIENCE Problems of Citizenship American Government City Government Foreign Service Political Theory Latin American Relations PSYCHOLOGY	2 2 2 2	1 2 4 2 1 1	D D D D D	A A A A A A	$\frac{302}{302}$	Vandenbosch Vandenbosch
S2a & b S3 S7 S104 108a 109a 120a	General Psychology Individual Development Psychology of the Child Social Psychology Human Measurements Diagnosis of Development Independent Work ROMANCE LANGUAGES	2 2 2 2	1, 2 1 2 3 4 By Appt. By Appt.	D D D D D	NH NH NH NH NH NH NH	304 304 306 306 302	Graham Boynton Boynton Graham Boynton Boynton Boynton
S1b S2a S6a S109a S113a	Elementary French Intermediate French French Novel and Drama French Lit. of 19th Century Advanced Composition, etc Previous consultation necessary for admission.	2 2 2		D D D D D	wwww	306 306 307	Horsfield Horsfield Horsfield Zembrod Zembrod
S114a S5a S7a S104a	Independent Work Elementary Spanish Intermediate Spanish Spanish Literature	2 2	By Appt.	D D D	មានជា	307 306	Zembrod Zembrod Horsfield Zembrod
S1a S104 S109	SOCIOLOGY Principles of Sociology	2 2 2	2	D D D	McVH McVH McVH	111	Nims Nims Nims
$egin{array}{c} 1a_2 \\ 102 \\ 107a_1 \\ 107a_2 \\ \end{array}$	General Zoology, Rec. General Zoology, Lab. Ornithology Comparative Anatomy, Rec. Comparative Anatomy, Lab. Prins. of Zoology (Heredity)	4 2 4 2 1	6 3 11:30-1	D D D D D	aaaaaa	105 108 108 105	Allen Allen Funkhouser Allen Allen Funkhouser

^{*}Courses marked with * will be offered only in case a sufficient number of students register for them.

COLLEGE OF AGRICULTURE

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
1 ₁ 1 ₂ 106	AGRONOMY Soils	2	$ \left\{ \begin{array}{c} 4 \\ 5 \\ 6, 7 \\ 1 \end{array} \right. $	D TThS }	Agr.	302	Karraker Karraker Fergus
104 106 ₁ 106 ₂ 112 ₁ 112 ₂ 119 124 ₁	Live Stock Animal Breeding Pork Production Pork Production, Lab. Advanced Poultry Production. Adv. Poultry Production, Lab. Genetics Advanced Study of Breeds of Dairy Cattle Advanced Study of Breeds of Dairy Cattle, Lab. FARM ECONOMICS		2,3 2,3 6,7,8 1 2 By Appt. 4 5 3 4,5	D D D TTh D MWF D TThS }	JP Agr. JP Agr. Agr. JP	303	Harris Anderson Wilford Wilford Martin Martin Anderson Ely
107a 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Special Problems in Farm Mgt. HORTICULTURE General Horticulture General Horticulture, Lab	3	$ \begin{cases} 1 \\ 2 \end{cases} $ 6, 7, 8	D TThS D MWF	Agr. Agr. Agr. F'rm	205	{ Finn Olney Olney
S108 S109	MARKETS AND RURAL FINANCE Marketing	2 2	4	D D	Agr. Agr.		Johnson Johnson
3 ₁ 3 ₂ 6b 31 29 ₁ 29 ₂ 42 ₁ 42 ₂ 110 116 ₁	Foods and Nutrition Foods and Nutrition, Lab	4 4 2 3 5 5 2 3	2, 3 1, 2, 3 4, 5 1 2, 3 3 By Appt. 4	D D D MWF D D D MWF D M MWF D M M M M M M M M M M M M M M M M M M	Agr. Agr. Agr. Agr. Agr. Agr. Agr. Agr.	1 103 202 202 202 202 303 303 202a	Barkley Barkley Barkley Wade Wade Foster Foster Wade Wade

COLLEGE OF ENGINEERING

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
21	CIVIL ENGINEERING Hydraulics	2	5 _	D	мн	201	Johnson
1a 1b 4a 4b \$3	Mechanical Drawing	2 2 2 4	18 hrs. 18 hrs. 18 hrs. 18 hrs. 3, 4	By Apt. By Apt. By Apt. By Apt. D	C&P C&P	$ \begin{array}{r} 207 \\ 207 \\ 207 \end{array} $	Horine Horine Horine Horine Horine
S1 S3 9a	ELECTRICAL ENGINEERING Elements of Electrical Eng Alternating Currents Electrical Lab.	2 2	4 2 6, 7 6. 7	D D MWF	MH MH MH	202 108	Freeman Freeman Bureau or Barnett Bureau or
S6 S1 S4 S7	ENGINEERING MECHANICS Analytical Mechanics Mechanics of Materials Kinematic Design Machine Design	3	3, 4 2, 3 36 hrs. 18 hrs.	D D By Apt. By Apt.		201	Johnson Johnson Jett Jett
\$8	MECHANICAL ENGINEERING Steam Laboratory PRACTICAL MECHANICS	+	6, 7, 8	TTh	MH	112	Watkins
S7a S7b 8a 8b	Wood Shop and Foundry	2 2	24 hrs. 24 hrs. 18 hrs.	By Apt By Apt By Apt	NS NS		Dicker & others Dicker & others Thurman and others Thurman and others

COLLEGE OF LAW

First Year							
Legal Liability (May be taken	2	1	D	,	Law	102	Randall
by first or second year stu- dents)	2	2	D		Law	102	Evans
Second and Third Year Quasi-Contracts Bankruptcy	2 2	4 3	D D		Law Law	102 102	Chalkley Moreland
or Equity I	2	3	D		Law	102	Moreland

COLLEGE OF EDUCATION

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
	ADMINISTRATION						
S101	School Organization	2	1	D	E	205	Russell
190a	Technique of the Registrar's Office	2	By Appt.		-		Gillis
S204a S213 S232	The Adm. of Higher Education State and County Sch'l Admins. High School Administration	2 2 2	3 2 1	D D D	EEE	205	McVey Whitehead Ligon
	AGRICULTURAL EDUCATION						
S180 187 S188	Methods of Teaching Voc. Ag Adv. Problems in Ag. Ed Farm Practice Supervision	2 2 1	By Appt. By Appt.	D	NH	206	Hammonds Hammonds Woods
	EDUCATIONAL PSYCHOLOGY						
S16 122a ₁	Educational Psychology Tests and Measurements	2 2	2 2	D D	E		Patrick Ross
122a2	Tests and Measurements	2	3 4	D D	E		Ross Ligon
S147 S223	Psychology of Secondary Educ. Statistical Methods in Educ	2 2	5	D	E		Ross
	ELEMENTARY EDUCATION						
36	Teaching Reading in the	0	1	D	E	202	Duncan
40	Elementary School History and Geography in the	2					
43	Upper Grades Teaching Literature to Children	2 2	3	D D	E		Duncan Duncan
130a	The Teaching of Health in Public School	2	3	D	NH	302	Chambers
S145	Rural School Supervision	2	5	D	E		Patrick
	HISTORY OF EDUCATION						
S10a	Moral and Esthetic Education	2	2	D	E		Noe Noe
S117a S120	History of Education Great Educators and Their	2	1	D			
S121	Work History of Educ. in the U. S	2 2	4	D D	E		Noe Patrick
	HOME ECONOMICS						
S160	EDUCATION Technique of Teaching H. Ec	2	2	D	E	201	Spickard
S163	Current Problems in Home Ec. Ed.	2	3	D	E	201	Spickard
S168	Home Ec. Curriculum Con-		5	D	E		Spickard
	INDUSTRIAL EDUCATION						
S74	Vocational Guidance	2	2	D	NH	206	May
S72	Special Methods in Trade and Industrial Education	2	4	D	NH	206	May
S75	Reorganization of Industrial Arts	2	5	D	NH	206	May

COLLEGE OF EDUCATION—Continued

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
	LIBRARY TRAINING						
50	Book Selection	2	2	D	E	H.S.	King
51	Cataloguing and Classification for the School Library	2	3	D	E	H.S.	
52	Reference and Bibliography PHILOSOPHY OF EDUCATION	2	4	D	E	H.S. Lib.	
114a 127a	Educational Sociology Principles of Curriculum Con-	2	5	D	E	205	Whitehead
140a 200 S222a	struction	3 2 3 2	1, 2 3 4, 5 5	D D D D	EEE	105 105	Adams Whitehead Adams Taylor
\$105 \$126 129 135	The Technique of Teaching The Junior High School Mathematics in the High Sch'l The Social Sciences in the	2 2 2	3 4 3	D D D	EEE	205	Ligon Ligon Godman
149	High School Extra-Curricular Activities		1 2	D D	E	SEL NEWSTERN PRODUCT	Godman Godman

COLLEGE OF COMMERCE

	COMMERCE						
1a	Principles of Economics	3	10:30-			-	
			11:45	D	WH	303	Palmer
*2	Economic History of Europe						
	(open only to freshmen and		10:30-				
	sophomores)	3	11:45	D	WH		Jennings
*8	Economic Geography	3	7:30-8:45	D	WH	205	Jennings
102	Labor Problems (Prerequisite,						
	course 1)	3	9-10:15	D	WH	306	Troxell
103	Transportation (Prerequisite,		10:30-				
100	course 1)	3	11:45	D	WH	306	Troxell
108	Insurance (Prerequisites,		11.10		,,,,,,		
100	course 1 and Math. 14)	2	7:30-8:45	D	WH	205	Palmer
	Course I and Math. 14)	0	1.50-0.45	D	VVII	200	I common

^{*}Courses open to Freshmen.

SECOND TERM COLLEGE OF ARTS AND SCIENCES

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
	ANCIENT LANGUAGES						
S150b S3 S4 S5 S110 S121	Teachers Course in Latin	2 2 2	1 5 6 2 3 4	D D D D D	A A A A A	303 303 303 303	Jones Jones Jones Jones Jones Jones
	ANTHROPOLOGY AND ARCHAEOLOGY				1		
102	Kentucky Archaeology	2	5	D	C&P	200	 Webb
	ART			7,			
S71a S73a	Drawing and Painting	3	1, 2, 3 3, 4, 5	D D	AC AC		Fiske Fiske
	BACTERIOLOGY						
8 106 ₁ 106 ₂ 201b	Bacteria in Relation to Men Bacter. of Foods Bacter. of Foods Research in Bact.	4	3 1 4, 5 By Appt.	D D D	KH KH KH	B13 Sb12	Weaver Weaver Weaver Weaver
	BOTANY						
$\begin{cases} 1b_1 \\ 1b_2 \\ 20 \end{cases}$	General Botany, LecRec	4 2	2 3, 4 1	D D D	WH WH WH	102	McFarland McFarland McFarland
	CHEMISTRY		Ty			111	Mitchell
1b	General Inorganic Chemistry	5	1, 2, 3, 4	D	KH	200 201	and
7	Organic Chemistry	4	1, 2, 3	D	KH	209 215	Barkenbus
8	Quantitative Analysis	SERVE STATE	1, 2, 3, 4, 5	D	KH		(Bedford
106 109	Advanced Organic Chemistry Quantitative Analysis	5 5	By Appt. 1, 2, 3, 4, 5		KH KH		Barkenbus) Bedford
115b	Physical Chemistry	3	1, 2	D	KH }	115 B14 B17	Bedford
	ENGLISH LANGUAGE AND LITERATURE				*		
S1a S1b S3a S7a S11a,	History of English Literature	2 2 2 2 2	2 3 4	D D D D	McVH McVH McVH McVH	203 203 231	Gallaway Yates Yates Sutherland Sutherland
			-		Mevil	TOT	Dutherland

	COLLEGE OF ARTS AND COLLEGE								
Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor		
\$106 \$114b \$130b \$140 \$142 \$208	ENGLISH LANGUAGES AND LITERATURE—Cont. Romaniticism American Literature Comparative Literature English Lit. from 1660 to 1774 The Renaissance Carlyle	2 2 2 2 2 2 2	4 3	D D D D D	McVH McVH McVH McVH McVH	203 204 206 206	Brady Yates Brady Gallaway Gallaway Brady		
S2b S18 16b	GEOLOGY Elementary Geology Elements of Geography Mineral Resources	2 2 2	1 2 4		888	203	Robinson Robinson Robinson		
S1a S1b S2a S2b S3a S3b S4a S6	Elementary German Elementary German Intermediate German Composition and Reading Composition and Reading Adv. Reading and Composition Scientific and Journalistic Ger Special arrangements will be made for students who cannot accommodate themselves to this schedule.	2 2 2 2 2	1 2 3 3 4 4 By Appt. By Appt.		A A A A A A A A	304 304 304 304 304	Melcher Melcher Melcher Melcher Melcher Melcher Melcher Melcher		
S1b 30 6 7 160 165	The Ancient World	2 2 2 2	1 4 2 2 5 4	D D D D D	A A A A A	204 205 204 204	Knapp		
1 105b	HygieneAdvanced Hygiene	1.3	1 2	D D	AA	4 4			
S105 S107 S106	JOURNALISM Law of the Press Editorial Writing Ethics and Principles of Jour. MATHEMATICS	2	2 3 4	D D D	McVH McVH	1 5	Portmann Portmann Portmann		
S1 S2 S5	Elementary AlgebraCollege Algebra	2	3 4 2,3	D D D	McVH McVH	1 12	6 Latimer 9 South 9 South		

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
\$7b *\$111 *\$104 *\$118	MATHEMATICS—Cont. Integral Calculus Higher Algebra Advanced Analytics Solid Analytics	2 2 2 2	2 4 4 4	D D D D	McVH McVH McVH McVH	106 106	Latimer Latimer Latimer Latimer
1b 1b 1b 3b S6 S6	PHYSICS Gen. Elem. Physics, Lec	4 2	$\begin{bmatrix} 1 \\ 2 \\ 3, 4 \\ 3, 4 \\ 1 \\ 1, 2 \\ 2 \end{bmatrix}$	D D MWF D TTh MWF TTh	C&P C&P C&P C&P C&P C&P	200 203 103 103 3	Webb Webb and Asst. States States States and Asst.
\$51b *112b *114b \$223b	Introduction to Physics, Lec Physical Manipulations Radio Communication General Physics	2 1 2 6	By Appt. By Appt. By Appt.	D	C&P C&P C&P	200	Webb States, Black & Schneider States States
\$15b \$51b \$153 \$161 \$170 \$165a	POLITICAL SCIENCE Problems of Citizenship American Government City Administration International Relations Political Parties World Politics	2 2 2 2	1 2 4 3 1 2	D D D D D	A A A A A A	303 303 302	Vandenbosch Vandenbosch Vandenbosch
S1 S5 S102b 109b S112 S114 S115 120b	PSYCHOLOGY Introductory Psychology	2 2 2	2 1 3 By Appt. 4 5 2 By Appt.	D D D D D D	NH NH NH NH NH NH NH	306 306 302 306 306 204	Asher Asher Boynton Boynton Asher Boynton Boynton Boynton
S1a S2b S5a S7b	Elementary French Intermediate French Elementary Spanish Intermediate Spanish ZOOLOGY	2 2 2 2	3 2 3 1	D D D D	8888	306 306	Holmes Holmes Holmes
1b ₁ 1b ₂ 107b ₁ 107b ₂	General Zoology, Rec	4	2 7:00-8:00 2 11:30-1	D D D	2222	105 108	Allen Allen Allen Allen

Note: Only one of the starred courses will be given. Choice will be left to the class.

*Courses marked with * will be offered only in case a sufficient number of students register for them.

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COLLEGE OF AGRICULTURE—SECOND TERM

Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor
107 ₁ 107 ₂ 120	ANIMAL INDUSTRY Sheep Production	3	$ \begin{cases} 2 \\ 6,7,8 \\ 3 \\ 4 \end{cases} $	D TW D MWF }	Agr. JP Agr.		Horlacher Horlacher Horlacher

COLLEGE OF ENGINEERING-SECOND TERM

21	CIVIL ENGINEERING Hydraulics ELECTRICAL ENGINEERING	2	5	D	мн	201	Johnson
2 S7 S3 9b	D. C. Dynamos		3 22 hrs. 4 6, 7	D By Apt. D MWF	MH MH MH MH	104	Freeman Freeman or Bureau Freeman Bureau or Barnett
2 S6	Testing LaboratoryAnalytical Mechanics		6, 7 2, 3	MWF	C&P MH		Johnson Johnson

COLLEGE OF LAW-SECOND TERM

First Year				
First Teal				
Code I leading	2	1	D	Law 102 Randall
Real Property	2	2	D	Law 102 Moreland or Evans
Second and Third Year				Livans
Mortgages	2	3	D	Law 102 Evans or Moreland
Equity II	2	3	D	Law 102 Evans or Moreland
Legal Ethics	2	4	D ;	Law 102 Chalkley

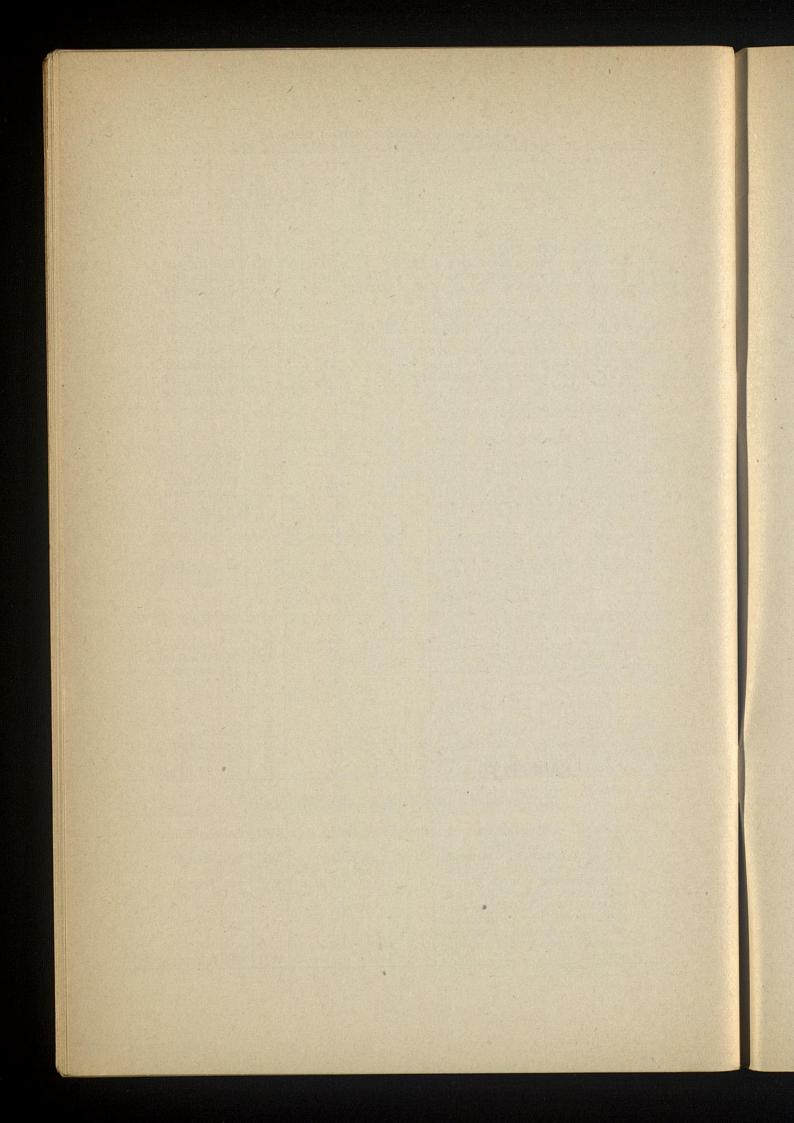
Note:—The completion of Common Law and Code Pleading will be regarded as sufficient substitution for the required first year course in Civil Procedure.

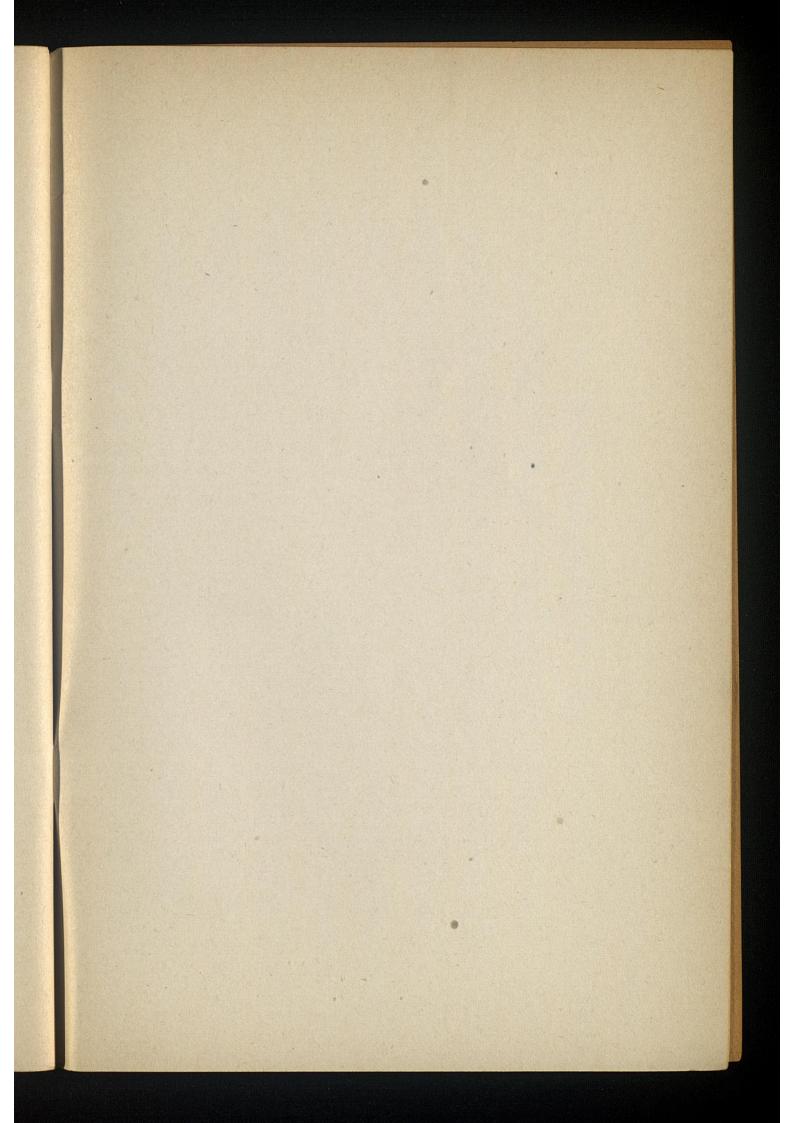
COLLEGE OF EDUCATION—SECOND TERM

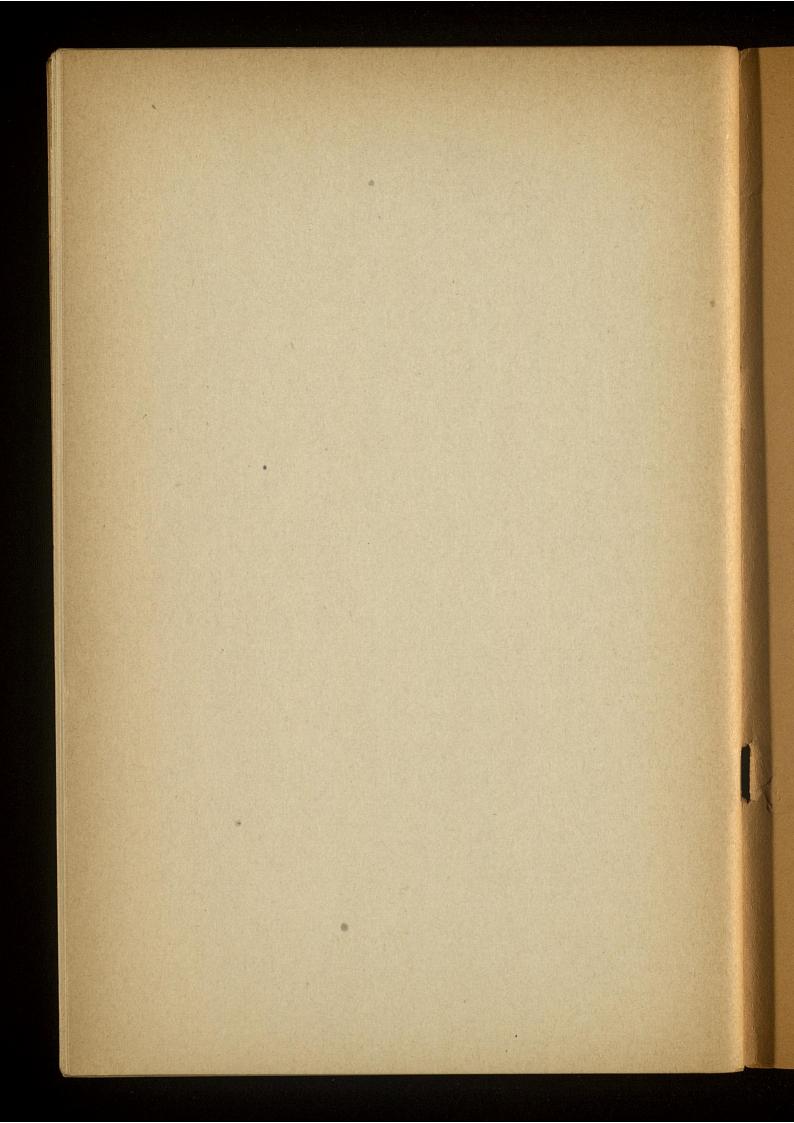
S125	ADMINISTRATION Kentucky SCANCEL FD. The Supervision of Instruction Technique of the Registrar's Office	2 2 2	1 2 By Appt.	D D	E	204 205 Blackwell Gillis
S202	City School Administration	2	By Appt.	D	E	204
S204b 205	Adm. of Higher Education Problems of College Teaching	2 2	2 3	D D	E	201 Reeves 106 Reeves

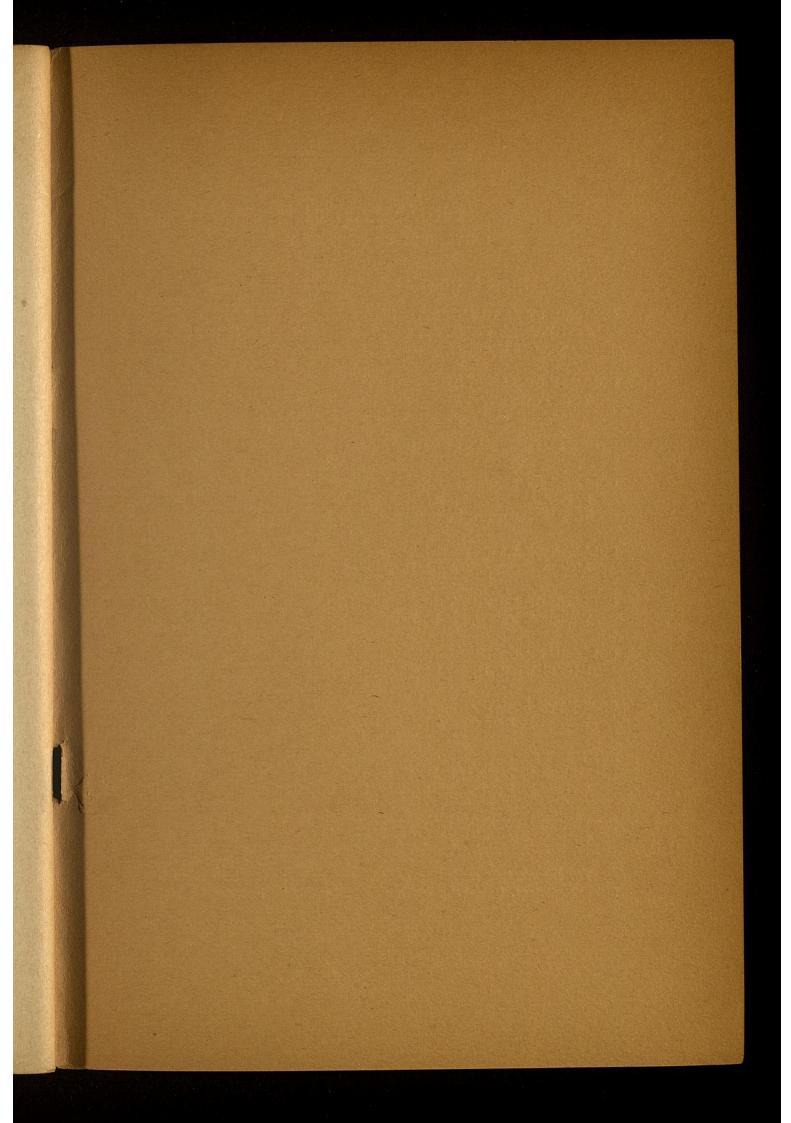
COLLEGE OF EDUCATION—Continued

1			4						
Course No.	SUBJECT	Credit	Hour	Days	Bldg.	Room No.	Instructor		
S231 S232 321a, h	ADMINISTRATION—Cont. Financing Public Education High School Administration Special Problems in Higher Ed.	2	3 1 By Appt.	D D	E	205 205	Russell Ligon Reeves		
S188	AGRICULTURAL EDUCATION Farm Practice Supervision	1	By Appt.				Woods		
S16 122a >122b	EDUCATIONAL PSYCHOLOGY Educational Psychology Educ. Tests and Measurements Educ. Tests and Measurements	2	5 2 3	D D D	EEE	204	Patrick Patrick Patrick		
36	Teaching Reading in the Elem. School	2	3	D	E	202	Duncan		
42	Teaching Arithmetic in the Elem. School	2	1 .	D D	E		Duncan Duncan		
130b	The Teaching of Health in the Public Schools		3	D	NH		Thomas		
	HISTORY OF EDUCATION								
S117b	History of Education	2	3	D	E	105	Blackwell		
114b 127b 140b 205	PHILOSOPHY OF EDUCATION Educational Sociology Problems in Curriculum Construction Philosophy of Education Review of Educ. Literature	2	5 1, 2 3 4, 5	D D D	EEE	105 105	Blackwell Adams Whitehead Adams		
S222b	Thesis Course	2	5	D	Ē		Taylor		
S105 149 S150 S126	SECONDARY EDUCATION Technique of Teaching Extra-Curricular Activities The Senior High School The Junior High School	2 2 2 2	2 3	D D D D	EEEE	202 201	Ligon Whitehead Ligon Whitehead		
	COLLEGE OF COMMERCE—SECOND TERM								
1b 115	Principles of Economics	3	7:30-8:45	D	WH	205	Jennings		
	Thought (Prereq., course 1) Economics of Public Utilities		7:30-8:45 10:30-	D	WH		Palmer		
134	Adv. Econ. Hist. of the U. S. (Not open to freshmen and sophomores nor to students who had course 3 except by	3	11:45	Pad. Ud	WH	306	Troxell		
		3	10:30- 11:45	D	WH	205	Jennings		









ORGANIZATION

UNIVERSITY OF KENTUCKY Lexington, Kentucky

FRANK L. McVey, Ph. D., LL. D., President

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Paul P. Boyd, Ph. D., Dean
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Thos. P. Cooper, B. S., Dean and Director

Courses in Agriculture and Home Economics

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W. E. Freeman, A. B., E. E., Assistant Dean

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COLLEGE OF COMMERCE Edward Wiest, Ph. D., Dean

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William D. Funkhouser, Ph. D., Dean

SUMMER SESSION
William S. Taylor, Ph. D., Director
Wellington Patrick, Ph. D., Assistant Director

UNIVERSITY EXTENSION DEPARTMENT Wellington Patrick, Ph. D., Director

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