

VOL. IX, No. 2.

FEBRUARY, 1908

Bulletin of the University of Missouri
ANNOUNCEMENT
OF THE
SUMMER SESSION

June 4th to August 7th, 1908



COLUMBIA, MISSOURI.

PUBLISHED BY
The University of Missouri
ISSUED MONTHLY

Entered April 12, 1902, at Columbia, Missouri, as second-class matter,
under act of Congress of July 16, 1894.



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CONTENTS.

<p>Calendar 1</p> <p>Faculty 2</p> <p>Lectures and Entertainments 5</p> <p>General Information—</p> <p style="padding-left: 2em;">Purpose of Summer Session 6</p> <p style="padding-left: 2em;">Terms of Admission 7</p> <p style="padding-left: 2em;">Registration 7</p> <p style="padding-left: 2em;">Credit for Courses 7</p> <p style="padding-left: 2em;">Special Features in the Courses 7</p> <p style="padding-left: 2em;">Recreation 8</p> <p style="padding-left: 2em;">Libraries, Laboratories, and Museums 8</p> <p style="padding-left: 2em;">General Lectures 9</p> <p style="padding-left: 2em;">Teachers' Positions 9</p> <p style="padding-left: 2em;">Expenses 9</p> <p>Courses of Instruction—</p> <p style="padding-left: 2em;">Agriculture and Horticult- ure 11</p> <p style="padding-left: 2em;">Botany 11</p> <p style="padding-left: 2em;">Chemistry 12</p> <p style="padding-left: 2em;">Economics 13</p> <p style="padding-left: 2em;">Education 14</p> <p style="padding-left: 2em;">Elocution 15</p>	<p>English 16</p> <p>Freehand Drawing 17</p> <p>German 17</p> <p>History 18</p> <p>Latin 20</p> <p>Library Science 21</p> <p>Manual Training 21</p> <p>Mathematics 22</p> <p>Music 22</p> <p>Philosophy 23</p> <p>Physical Education 23</p> <p>Physical Geography 24</p> <p>Physics 25</p> <p>Psychology 25</p> <p>Romance Languages 26</p> <p style="padding-left: 2em;">French 26</p> <p style="padding-left: 2em;">Spanish 26</p> <p>Sociology 27</p> <p>Zoology 27</p> <p>Courses in Teachers College</p> <p style="padding-left: 2em;">High School 29</p> <p>Observation in Teachers Col- lege Elementary School ... 29</p>
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CALENDAR.

Monday-Wednesday, June 1-3, Commencement Week, University of Missouri.

Thursday-Saturday, June 4-6Registration days
Monday, June 8th Lectures begin
Tuesday, August 4th Lectures close
Wednesday, August 5th } Examinations
Thursday, August 6th }
Friday, August 7th Closing convocation

Monday, September 14th Fall semester opens

FACULTY OF THE SUMMER SESSION.

- RICHARD HENRY JESSE, LL. D.,
President of the University (until July 1, 1908).
- ALBERT ROSS HILL, A. B., Ph. D.,
President of the University (after July 1, 1908).
- JUNIUS LATHROP MERIAM, A. B., A. M., Ph. D.,
Professor of Theory and Practice of Teaching.
Director of the Summer Session.
- JAMES FRANCIS ABBOTT, A. B., A. M., Ph. D.,
Assistant Professor of Zoology.
(Assistant Professor of Zoology, Washington University.)
- HERMAN BENJAMIN ALMSTEDT, B. L., Ph. D.,
Professor of Germanic Languages.
- LEWIS DARWIN AMES, A. B., A. M., Ph. D.,
Assistant Professor of Mathematics.
- JOHN SITES ANKENNEY, Jr., A. B.,
Assistant Professor of Freehand Drawing.
- WILLIAM GODBEY BEK, A. B., A. M., Ph. D.,
Instructor in German.
- BERTHA JULIA BOND, A. B., B. L. S.,
Assistant in General Library and in charge of Law Library.
- THOMAS WILLIAM BURKHALTER, B. S., B. P. E.,
Instructor in Physical Education.
- HOWARD VERNON CANTER, A. B., Ph. D.,
Instructor in Latin.
- WILLIAM HENRY CHANDLER, B. S., M. S.,
Assistant in Horticulture.
- WERRETT WALLACE CHARTERS, A. B., Ph. M., Ph. D.,
Acting Professor of Theory and Practice in Teaching.
- EDGAR AUGUSTUS COCKEFAIR, B. S.,
Assistant in Botany.

SUMMER SESSION

3

JESSE HARLIAMAN COURSAULT, A. B., A. M., Ph. D.,
Assistant Professor of the History and Philosophy of Education.

CARL CONRAD ECKHARDT, Ph. B., A. M., Ph. D.,
Instructor in History.

WILLIAM BAIRD ELKIN, A. B., Ph. D.,
Acting Assistant Professor of Philosophy.

JOSEPH DOLIVER ELLIFF, A. B., A. M.,
Instructor in School Administration.

CHARLES A. ELLWOOD, Ph. B., Ph. D.,
Professor of Sociology.

FREDERICK VALENTINE EMERSON, A. B., Ph. D.,
Instructor in Physical Geography.

HELENE MARGARET EVERS, A. B., A. M., Ph. D.,
Instructor in Romance Languages.

ARTHUR HENRY ROLPH FAIRCHILD, A. B., A. M., Ph. D.,
Assistant Professor of English.

JAMES ANDREW GIBSON, A. B., A. M.,
Assistant in Analytical Chemistry.

EARLE RAYMOND HEDRICK, A. B., A. M., Ph. D.,
Professor of Mathematics.

GRACE LEFLER, B. L. S.,
Assistant in General Library, in charge of Catalogue.

ROBERT EDWARD LOVING, A. B., A. M., Ph. D.,
Instructor in Physics.

ROYAL LOREN MELENDY, A. B.,
Instructor in Physical Education.

MAX MEYER, Ph. D.,
Professor of Experimental Psychology.

WILLIAM JAMES MONILAW, M. D.,
Instructor in Physical Education.

EDITH PARKER,
Assistant in Manual Training.

GRACE DARLING PHILLIPS, B. L. S.,
Assistant in General Library, in charge of Periodical Room.

- WILLIAM HENRY POMMER,
Assistant Professor of Music.
- GEORGE MATHEWS REED, A. B., A. M., Ph. D.,
Assistant Professor of Botany.
- HERMAN SCHLUNDT, B. S., M. S., Ph. D.,
Professor of Physical Chemistry.
- JOHN RUTLEDGE SCOTT, A. B., A. M.,
Professor of Elocution.
- HENRY OMAR SEVERANCE, B. Pd., A. B., A. M.,
Librarian.
- MARLOW ALEXANDER SHAW, A. B., Ph. D.,
Instructor in English.
- OSCAR MILTON STEWART, Ph. B., Ph. D.,
Professor of Physics.
- EDWARD THURBER, A. B., A. M.,
Instructor in English.
- NORMAN McCLAREN TRENHOLME, A. B., A. M., Ph. D.,
Professor of History.
- JONAS VILES, A. B., A. M., Ph. D.,
Professor of American History.
- RAYMOND WEEKS, A. B., A. M., Ph. D.,
Professor of Romance Languages.
- JOHN CHARLES WHITTEN, B. S., M. S., Ph. D.,
Professor of Horticulture.
- MURRAY SHIPLEY WILDMAN, A. B., Ph. D.,
Assistant Professor of Economics.

OPEN LECTURES AND ENTERTAINMENTS.

I. Mondays at 10 a. m.

1. Consistent Democracy. Mr. R. L. Melendy.
2. Prejudice and Justice. Professor Max Meyer.
3. Germany and her Emigrants. Dr. C. C. Eckhardt.
4. Agricultural Teaching. Professor J. C. Whitten.
5. The Use of Illustrations in Teaching. Mr. J. D. Elliff.
6. Contemporary English Politics. Professor N. M. Trenholme.
7. The place of Geometry in Elementary and Secondary Schools. Professor E. R. Hedrick.
8. The Significance of Economic Studies for Citizenship. Professor M. S. Wildman.

II. Wednesdays at 10 a. m.

Musical program under direction of Professor Pommer.

III. Fridays at 10 a. m.

1. Physical Education and Athletics. Dr. W. J. Monilaw.
2. Some Recent Experiments with Radium. Professor H. Schlundt.
3. Art in the Home. Professor J. S. Ankeney.
4. What is our National Character. Dr. W. W. Elwang.
5. The Fall of Thomas Hart Benton, 1850-1856. Professor J. Viles.
6. Selected Readings. Professor J. R. Scott.
7. An Historic Glimpse of the Devil. Professor H. B. Almsstedt.
8. The Germans in Missouri and their Contributions to the Commonwealth. Dr. W. G. Bek.

IV. Fridays at 8 p. m.

1. The Modern Prophet. Mr. R. L. Melendy.
2. Hamlet. Professor A. H. R. Fairchild.
3. Entertainment. Elementary School.
4. The Mediaeval Churches of France (Stereopticon Views). Professor J. S. Ankeney.
- 5, 6, 7, 8. (For these four evenings, Judge Willis Brown, of Utah, M. M. Montgomery of Kansas, and others are expected.)

SUMMER SESSION FOR 1908.

Purposes of the Summer Session:

The aim of the Summer Session is to place the valuable equipment of the University at the service of persons who can not attend at other times. It is primarily for the teachers of the state, but others are admitted who are qualified to pursue the subjects taught. All work offered is given credit toward a degree from the Teachers College, and most of the work also counts toward a degree from the College of Arts and Science. In fact, the Summer Session is an integral part of the regular University work, being the first term of the scholastic year.

In the arrangement of summer courses the interests of the following classes of persons have been kept especially in mind:

1. *Superintendents and Principals* of schools who desire to enrich their knowledge of special phases of subject matter or to pursue advanced work in Education.

2. *High School Teachers* who desire to study special subject matter and the most approved methods of treating subjects in the high school.

3. *Elementary and Rural School Teachers*. Such courses as those offered in Agriculture, Elocution, Horticulture, Manual Training, and Music, and some of the courses in Education, are intended especially for grade and rural school teachers.

4. *Candidates for State Certificates* will find practically every subject for which credit is given in the list of courses outlined below.

5. *Graduate Students* will also find a number of courses, especially in Education, Mathematics, English, Modern Languages, Biology, History, Philosophy, and Sociology that are adapted to their needs.

6. *Regular Students of the University* will find the Summer Session an opportunity to shorten the time of their course without overworking during the regular sessions.

7. *Persons desiring preparatory credits* for entrance to the University will find several courses open to them; e. g., beginning courses in French and German. The courses offered in the High School of the Teachers College should be also noted in this connection.

Terms of Admission.

There will be no formal examinations for admission. Students will be admitted to any courses for which they are prepared. Such students as desire University credit for their work must meet the entrance requirements or enter under the rules as special students. Immature students and those who can not meet the entrance requirements as University students will find suitable courses in the Teachers College High School.

Registration.

The Director's office at room 10, Academic Hall, will be open for registration Thursday, Friday and Saturday, June 4-6. Students are expected to register on these days that they may be ready for the lectures which begin at 8 a. m., Monday, June 8.

Credit for Courses in Summer Session.

The number of hours of University credit given for each course is stated in connection with the outline of the courses given later in this announcement. Students should plan to take work for six hours credit. Nine hours is the maximum allowed.

A law enacted by the Forty-first General Assembly provides for the acceptance of the grades made in the Summer Session, as follows:

Grades made in the summer terms of the state educational institutions and in such other summer schools as may be approved by the State Board of Education shall be accepted by the State Superintendent and County Boards in lieu of examination in such subjects or parts of subjects outlined by the State Board. (Section 9666. *But no grade will be recognized unless the student has been in attendance upon the work at least forty-five days.*)

Those who wish credit either in the University or in the State Department must remain for the examination given Wednesday and Thursday, August 5 and 6.

Special Features in the Courses.

1. Ninety-seven courses in twenty-four departments are offered. They are outlined in pages that follow:

2. In each department elementary courses are offered for beginning students, but in more advanced work courses, not given last summer, are now offered to meet the needs of last season's students.

3. In nearly every department provision is made for graduate work and graduate students will receive much attention.

4. Two new departments are opened this summer:

Physical Education, to meet the rapidly increasing interest in this subject throughout the State and country.

Library Science, to train librarians for those schools where libraries are receiving more attention.

5. The organization of the Teachers College as a department of the University makes it possible to offer to the teachers of the state the very best opportunities for the study of history, theory, and practice of teaching. A sufficient variety of courses in Education is offered to meet the needs of all grades of teachers. The Teachers College High and Elementary Schools afford an opportunity to observe good teaching or to review high school work.

Recreation.

Definite arrangements have been made for extended privileges in athletics and other out of door recreation. The new Rothwell Gymnasium and the adequately equipped play grounds made possible opportunities not heretofore possible. The special privileges offered the women will, it is hoped, lead a large number of the Summer Session students to enter into the outdoor recreation.

The following will be open to the Summer Session students:

17 Tennis courts.

4 Basket-ball courts.

4 Baseball and football fields.

1 Women's hockey field.

1 Running track.

Golf links.

Men's out-of-door gymnasium.

Women's out-of-door gymnasium.

Locker rooms and baths.

in Rothwell gymnasium for men.

in women's gymnasium for women.

The gymnasiums and grounds, and all games and exercises will be under the supervision of Dr. Monilaw and Mr. Burkhalter, who are instructors in Physical Education.

Libraries, Laboratories, and Museums.

The libraries, in the aggregate, contain about 100,000 volumes. The library of the State Historical Society contains 40,000 volumes. The general library will be kept open all day. The special libraries

of those departments in which courses are given will be accessible to students at certain hours.

The University has over thirty well equipped laboratories and museums, for practical instruction in the sciences.

General Lectures.

On page 5 of this bulletin is given a list of the lectures arranged for this summer. Effort is being made to make these Monday and Friday morning lectures meet the varied interests of summer students.

On Wednesday morning of each week Professor Pommer will provide a musical program.

On Friday evening of each week a varied program is being arranged from a literary lecture to a primary school entertainment.

In addition to the above, which are open to students and public, students will have an opportunity to attend a "Chautauqua" held in Columbia. A number of men of national reputation in politics, religion, literature, and scholarship, will speak on themes of present day interest, and leading musicians will render popular programs. These programs will furnish a delightful means of entertainment and popular instruction, and will serve as a welcome supplement to the more serious work of the Summer Session.

Teachers Positions.

The Appointment Committee of the University will be glad to help worthy teachers who are in attendance at the Summer Session in securing positions. Applications should be made at the office of the committee, room 10, Academic Hall.

Expenses.

The fee for admission is \$5 for the session of nine weeks or any part thereof. This is payable upon entrance to the treasurer of the University. Each student who takes laboratory work in Agriculture, Botany, Chemistry, Horticulture, Manual Training, Physical Geography, Physics, or Zoology, is required to make a deposit of \$5.00 to cover laboratory fee of \$2.50, and damage to or loss of University property.

Rooms for men may be rented in the University dormitories for from \$7.00 to \$11.00 for the entire time of the Summer Session. All students renting rooms in the University dormitories are required to make a deposit of \$5.00. Each room in Benton Hall is

furnished with two single iron bedsteads, a table, two chairs, a wardrobe, a book-case and a chiffonier. Each room in Lathrop Hall has a closet and is furnished with two single iron bedsteads, a table and two chairs. The occupants are expected to supply whatever else they deem necessary.

Table board may be had at Lathrop Hall for about \$2.50 per week. Applications should be made to General Manager of the University Dining Club. Good board, including room and service, may be had in private families at from \$4.00 to \$6.00 per week.

Students wishing rooms in University dormitories should apply to the Secretary of the University. Those wishing assistance in finding accommodations in private homes apply at the office of the Director.

Laboratory and room deposits will be refunded at the close of the student's course, less the amount deducted for laboratory fee, for loss of University property or damage thereto, and, for those rooming in University dormitories, \$1.00 used for matron's salary.

COURSES OF INSTRUCTION.

(The letter "s" prefixed to any course is used to distinguish such course from one of the same number offered during the regular session. The suffix "a" or "b" indicates that the course corresponds to the first or second semester respectively of the regular course of the same number. The number in parenthesis after each course indicates the number of hours credit given. Unless otherwise indicated, the credit applies towards the A. B. degree as well as toward the degree from the Teachers College.)

1. AGRICULTURE AND HORTICULTURE.

Professor WHITTEN; Mr. CHANDLER.

The work in this subject is designed to meet the growing demand for definite instruction in Agriculture in the public schools. These courses, as arranged, meet the approval of the State Superintendent of Public Schools, and are accepted for State Certificates.

1. **Soils and Plants.** The origin, formation and characteristics of typical soils; the growth of plants in relation to the soil and other phases of environment. Lectures, reading and field excursions. This course is intended for those who are preparing to teach in elementary schools. *Five times a week* (3 hours in T. C.)

2. **Cultivated Plants.** Propagation and management of plants and how they grow under culture. Lectures and laboratory. Designed to meet the needs of those who are preparing to teach in any branch of biological science. *Five times a week;* (3 hours in T. C.)

2. BOTANY.

Assistant Professor REED; Mr. COCKEFAIR.

For Undergraduates.

1a. **General Botany.** Introductory to all advanced work and suited to the wants of those who desire a short general course in Botany. The morphology and physiology of various plants, illustrating the main group of the plant kingdom, are studied. *Five times a week;* (3).

sl. **Botanical Methods.** Practice will be given in methods of preparing plant material and of growing various plants for use in the classroom. Opportunity will also be given for collecting and preserving material for laboratory courses. The use of the dissecting microscope is emphasized. *Twice a week; (1).*

For Undergraduates and Graduates.

s2. **Advanced Work.** Work may be chosen, according to the needs of the students, along the line of Botany, as plant physiology, or morphology of some particular group. *Credit according to amount of work done.*

3. CHEMISTRY.

Professor SCHLUNDT; Mr. GIBSON.

2a. **General Chemistry.** Lectures, laboratory work, and recitations. Five lectures and recitations, and three laboratory periods a week; (4). Professor SCHLUNDT.

2b. **General Chemistry.** Lectures, laboratory work and recitations. Four lectures and recitations, and four laboratory periods a week; (4). Professor SCHLUNDT.

Courses 1a and 1b form really one continuous course, but separate credit will be given for each part. 2a is mainly devoted to a study of the non-metallic elements; 2b, to the metallic elements.

The aim of these courses will be to illustrate and emphasize the fundamental laws and principles of the science, and not to overtax the student with extensive descriptive matter on the elements and their compounds. While these courses aim to lay the foundation for more advanced work in chemistry, they are also designed to meet the wants of students who may elect to study chemistry as a part of a liberal education.

For the benefit of teachers that may take these courses some attention will be given to simple operations in the boring, cutting and blowing of glass, and the setting up of lecture apparatus.

7a. **Qualitative Analysis.** Laboratory and class room work; *Five times a week; (3).* Mr. GIBSON.

7b. **Qualitative Analysis.** Laboratory and class room work. *Five times a week; (3).* Mr. GIBSON.

Courses 7a and 7b form a continuous course, but separate credit is given for each part. Course 7a will include the ordinary methods for detecting and separating the principal bases; course 7b, the

methods for the inorganic acids. In each course practice will be given in the analysis of various substances, either in solution or in solid form, the composition of which is unknown to the student.

For Undergraduates and Graduates.

21a. Inorganic Quantitative Analysis. Laboratory work accompanied by class-room discussion. *Five times a week*; (3). Mr. GIBSON.

21b. Inorganic Quantitative Analysis. Laboratory work accompanied by class-room discussion. *Five times a week*; (3). Mr. GIBSON.

Courses 21a and 21b form a continuous course, but separate credit will be given for each. Course 21b must have been preceded by 21a or its equivalent. Course 21a will include the general principles and methods of gravimetric analysis; 21b will include the general principles and methods of volumetric analysis.

s18. The Elements of Physical Chemistry. Class-room and laboratory work. *Five times a week.* The more important chemical theories will be given in elementary form with special reference to the theory of solution. The class-room work will be supplemented by exercises in physico-chemical measurements. (3). Professor SCHLUNDT.

11a. Organic Chemistry. Lectures, recitations, and laboratory work. Three lectures and recitations and three laboratory periods. (3). Mr. GIBSON.

10a. Technical Chemistry. Sanitary water analysis, gas analysis, and fuel analysis including calorific values. *Five times a week*; (3). Professor SCHLUNDT.

4. ECONOMICS.

Assistant Professor WILDMAN.

For Undergraduates.

1a. Introduction to Economics. This course is open to beginners who are able to meet the general requirements for university entrance and who have had such additional training in American and European history as will enable them, in the opinion of the instructor, to pursue this study with success. Some standard text will be selected and a reasonable amount of library reading will

be required. The text will be supplemented by lectures and the principles will be freely illustrated by reference to well-known facts of our industrial life. *Five times a week; (3).*

For Undergraduates and Graduates.

5a. **Principles of Money and Credit.** This course is concerned with the origin and history of Money, and the scientific principles involved in Monetary Theory. The purpose will be to form correct notions regarding the nature and importance of a proper standard of value and system of currency. A study of the principles of Credit will be illustrated by a comparison of the banking systems and methods of leading nations. *Five times a week; (3).*

Primarily for Graduates.

11. **Seminary. Economic History of Missouri.** Open to graduates and to others who in the opinion of the Instructor are fitted for the work of original investigation. Hours and credit to be arranged.

5. EDUCATION.

Professor MERIAM; Acting Professor CHARTERS;
Assistant Professor COURSAULT; Mr. ELLIFF.

(Special attention is called to opportunities offered for observation in the Teachers College Schools. Both the elementary and high schools will be in session for the purpose of exhibiting some modern methods for public school work.)

For Undergraduates.

1b. **History of Education.** Recitations, lectures, and discussions. *Five times a week; (3).* Assistant Professor COURSAULT.

4b. **Educational Psychology.** This course will deal with the study of the mental processes. It will approach these from the pedagogical standpoint, showing how they may be used and trained in the actual practice of the school room. For instance, such questions as the use and training of the memory, of attention, of imagination, habit, etc., in school room practice will be particularly emphasized. Professor CHARTERS.

5a. **Graded and Rural School Teaching.** This course will be concerned with the following practical problems of teaching, illustrated by graded and rural school conditions; (1) What the school

should aim to do; (2) how to interest pupils in the work of the school; (3) how to get the most out of subject-matter; (4) how to make pupils proficient in the use of what they get in school; (5) how to study; (6) how to make assignments. Professor CHAR-TERS.

For Undergraduates and Graduates.

11b. **Principles of Education.** This course aims to develop the fundamental principles upon which educational procedure should rest, through a study of the biological, ethical, psychological, and sociological aspects of education. *Five times a week;* (3). Assistant Professor COURSAULT.

14a. **High School Problems.** The history, curriculum, organization, and administration of secondary education in the United States. In connection with this course a series of conferences regarding high school problems in Missouri will be conducted, and these will be open, without credit, to students who are not enrolled in the course. *Five times a week;* (3 hours in T. C.). Mr. ELLIFF.

16b. **School Administration.** The leading problems of school organization, administration, and management will be treated. *Five times a week;* (3 hours in T. C.). Mr. ELLIFF.

Primarily for Graduates.

42. **Seminary in the History and Philosophy of Education.** A critical investigation of topics in connection with the thesis work for graduate degrees. *Hours to be arranged.* Assistant Professor COURSAULT.

43. **Seminary in School Administration.** This course is planned only for those doing research work toward a graduate degree. *Hours to be arranged.* Professor MERIAM, Professor CHAR-TERS, Mr. ELLIFF.

6. ELOCUTION.

Professor SCOTT.

s1. **Elementary.** Foundation theory and practice of vocal culture and expression. Breathing for conscious voice-support; phonetics, applied to syllabic form and enunciation; stress, inflection, quantity and quality; phrasing; movement and rhythmus; melody; intonation and cadence; analysis of short prose and poetic passages. *Five times a week;* (1½).

s2. **Advanced Work.** The interpretative study of plays, scenes, poems, and imaginative literature generally. Selections will be made from Shakespeare, Milton, Scott, Tennyson, Browning, Dickens, Poe, Ruskin, and other representative writers. The emotional and spiritual, as well as the intellectual, elements of literature will be the objects of study and embodiment. *Five times a week; (2).*

21a. **Teachers' Course.** This course will be given, if it is desired by six students or more, and will comprise: (a) The criteria of vocal expression—time, pitch, quality, and force—with copious examples; (b) The method of teaching children to read. Text-book: S. H. Clark's *How to Teach Reading in the Public Schools*. *Five times a week; (2 hours in T. C.).*

7. ENGLISH.

Assistant Professor FAIRCHILD; Dr. SHAW; Mr. THURBER.

For Undergraduates.

s1. **Composition and Rhetoric.** Themes, class-room criticisms, and the rhetorical study of selected masterpieces. Special attention will be paid to sentence and paragraph structure and to the logic of composition. *Five times a week; (3).* Dr. SHAW.

s3. **English Literature.** An historical view of English literature from Shakespeare's time to the present. Representative poems will be studied in class in chronological order, beginning with Milton; the prose will be studied in outside readings, assigned and reported on. *Five times a week; (3).* Dr. SHAW.

s10. **American Literature.** A survey of literature in America with especial emphasis upon the later period of its development in its relation to national life. Lectures, quizzes, reports. Discussions of selections suitable for secondary school reading. *Five times a week; (3).* Mr. THURBER.

This course may be taken in lieu of the two-semester course in the same subject (English 10) by candidates for the life certificate (see Teachers College announcement in the general catalogue).

s11. **English Grammar.** A study of modern English grammar with the purpose of giving a breadth of view and arriving at classifications helpful to teachers in secondary schools. Lectures, class discussion and special papers drawn from studies of standard authors. *Five times a week; (3).* Mr. THURBER.

For Undergraduates and Graduates.

s7. **Shakespeare.** A critical study of four or five selected plays with collateral reading. *Five times a week*; (3). Assistant Professor FAIRCHILD.

s22. **Milton.** All the poems (except those in Latin) and some of the prose works will be read. Special emphasis will be given in class to the early poems and to the more important parts of *Paradise Lost*. Some attention will also be given to the literary history of the period. *Five times a week*; (3). Assistant Professor FAIRCHILD.

Primarily for Graduates.

s20. Some standard works will first be read, to be followed by more distinctly constructive work in which an attempt will be made to determine some of the grounds of literary judgment. The class will be limited in number. *Hours and credit to be arranged*. Assistant Professor FAIRCHILD.

For courses in elementary English, see announcement of Teachers College High School below.

8. FREE HAND DRAWING.

Assistant Professor ANKENNEY.

2a. **Representation.** The elements of drawing. The regular first semester work will be given and, in addition, opportunity will be offered for observational work in teaching drawing to children. *Five times a week*; (3).

3a. **Design.** A study of the principles of relationship in the work of art. Learning to think in terms of time, measure and shape. Original exercises, lectures, and study of examples. This course is of direct benefit to craftsmen as well as to students of art in general. *Five times a week*; (3).

For teachers, supervisors and students who wish a more advanced art training than the above courses provide, an opportunity will be offered persons for out of door drawing and painting. For particulars address the instructor.

9. GERMAN.

Professor ALMSTEDT; Dr. BEK.

s1. **Elementary Course.** This course will comprise a study of the grammar and structure of the language, easy prose reading; translation of English into German, German conversation. *Five times a week*; (3). Professor ALMSTEDT.

s2a. **Prose-reading Course.** Reading of short novels and comedies; intensive composition work; conversation. Requisites: German 1 or its equivalent. *Five times a week*; (3). Dr. BEK.

s5. **Goethe's Faust I.** Lectures and reading. Open to those who have a facile knowledge of German. Special stress will be laid upon the literary and culture values. *Three times a week*; (2). Professor ALMSTEDT.

Primarily for Graduates.

s6. **Historical Grammar and Phonetics.** Lectures and discussions on the main difficulties that arise in the teaching of German, i. e., pronunciation, grammar, and vocabulary. *Twice a week*. Professor ALMSTEDT.

10. HISTORY.

Professor TRENHOLME; Professor VILES; Dr. ECKHARDT.

For Undergraduates.

1b. **Modern History.** With especial reference to the period since the close of the Middle Ages. This course will cover the political, social, and institutional development of modern Europe from the Reformation to the present time. It is especially designed for teachers of mediaeval and modern history and emphasis will be laid on the treatment of important topics by oral discussion and recitation. The required text-books will be Robinson's "History of Western Europe," Vol. II; Robinson's "Readings in European History," Vol. II; and Trenholme's "Syllabus for the History of Western Europe," Part II. *Five times a week*; (3). Dr. ECKHARDT.

2. **English History and Government.** A course dealing with the political, social, and governmental history of England. The earlier or mediaeval portion of English History will be covered somewhat rapidly and the attention of the class directed to such topics as the formation of parliamentary government, social and economic changes and advances, and the evolution of popular government. The basis of the course will be Cheyney's "Short History of England," and Cheyney's "Readings in English History," though collateral reading will also be assigned. *Five times a week*; (3). Professor TRENHOLME.

3. **American History and Government.** A course in the general political and social development of the American people with particular reference to the formation of the union and the history

of the United States. The material in this course will be organized in such a manner as to help both elementary and high school teachers of American History and Government. McLaughlin's "History of the American Nation" will be used as a guide to the work of the course, but a considerable amount of special reading will be required from the members of the class and students will be expected to acquaint themselves with the leading works of reference and collections of sources. *Five times a week; (3).* Professor VILES.

For Undergraduates and Graduates.

s5. **Nineteenth Century History.** A course of an advanced nature for students already well prepared in general European history. The period covered will be from the fall of Napoleon in 1815 to the present time and such topics as the reconstruction of Europe, the liberal and revolutionary movements of the first half of the century, the unification of Germany and of Italy, colonial enterprises, religious and social progress, the near eastern and far eastern questions will be fully treated in lectures and reports. Students should have as a class manual and guide Robinson's and Beard's "Development of Modern Europe," Vol. II. Reports and collateral reading will also be assigned by the instructor. *Five times a week; (3).* Dr. ECKHARDT.

s7. **History of the West.** A course in advanced American history dealing with the growth of the west in political and economic importance. Especial attention will be given to the history of the Mississippi valley and such topics will be treated as the causes and history of the westward migration, frontier life and ideals, the development of territorial and state governments, public lands and public improvements, racial elements in the population, and the reaction of the middle west on national politics and history. This course will be conducted by means of lectures and topical discussions based on assigned readings. *Five times a week; (3).* Professor VILES.

For Graduates.

s10. **Studies in European Culture.** An advanced lecture and report course open only to such students as are qualified for graduate work in history. Attention will be given to the history of modern culture and civilization from the point of view of origins and development. The contribution of the Middle Ages and of the Renaissance will be especially dwelt on and studied from the

sources and best secondary works and students will report from time to time on subjects of special research in the history of these periods. Each topic of study will be carefully outlined and a special collection of books will be reserved for the use of the class. *Five times a week*; (3). Professor TRENHOLME.

s20. **Seminary and Research Work.** This course will afford opportunity for advanced research and thesis work on the part of students who are candidates for a graduate degree or who wish to pursue some particular line of study and investigation in the fields of European, English, or American history. Such work will not be done in the form of class work but by weekly conferences with the instructor who is directing the student's research. (1 to 3 hours.) Professors TRENHOLME and VILES, and Dr. ECKHARDT.

For courses in elementary history, see announcement of Teachers College High School below.

11. LATIN.

Dr. CANTER.

For Undergraduates.

1a. **Cicero.** Selected Orations of Cicero, followed by the essay, *de Senectute*, used as a basis for a study of Cicero's literary and political career. *Five times a week*; (3).

1b. **Vergil.** The course will cover four books of Vergil's *Aeneid*, which will be discussed in its relation to the literary aims of the circle of Augustus Caesar. Special topics will be assigned to individual students. Especially designed for high school teachers of Vergil. *Five times a week*; (3).

For Undergraduates and Graduates.

6. **Roman Elegy.** Catullus, Tibullus, Propertius, and Ovid will form the center of the work. The subject will be studied as a department of literature. Special papers and discussions will be devoted to a study of the origin of the elegy, the several schools on Greek and Roman soil, its content and technique, diction and style, etc. *Five times a week*; (3).

For courses in elementary Latin, see announcement of Teachers College High School below.

12. LIBRARY SCIENCE.

Mr. SEVERANCE; Miss LEFLER; Miss PHILLIPS; Miss BOND.

This course is intended to meet the needs of teachers who have charge of the public school libraries and of those who intend to take charge of small school libraries. The course is not offered as a substitute for a library summer school, nor for the full training of one of the regular library schools, but is offered to those who wish a knowledge of modern library methods and have neither the time nor means to attend a library school. When the subject admits, instruction will be accompanied by practice work. The State Library Commission will furnish several lecturers on the larger problems of library science.

The following subjects will be presented: Trade bibliography, book buying, accessioning, classification, cataloguing, charging systems, binding and repairs, reference work, state and government documents, travelling libraries. *Five times a week*; (3 hours in T. C.).

(Note.—This course will be given only if ten students apply.)

13. MANUAL TRAINING.

Miss PARKER.

4a. **Elementary Handicraft.** This course is concerned with materials and processes suitable for use in the grades. Clay, raffia, rattan, yarns and cord, are some of the materials; pottery, basketry, weaving, and knotting suggest the processes.

Emphasis is placed upon directed reading, compilation of notes, study of the origin of the various processes, and the practical applications of the work to the teaching of the ordinary school subjects. Design forms a part of the work and is carefully criticised. (3 hours in T. C.).

5a. **Bench Work in Wood.** A thorough mastery of the simple wood-working tools is the object of this course. The cost and care of tools, and the methods of putting them in order, are made the subject of study and demonstration. Mechanical drawing forms a part of the work. Readings and notes are supervised. (3 hours in T. C.).

7a. **Art-Craft.** This is a continuation of 4a. Advanced work in artistic handicraft is attempted. Suggestive processes are block-

printing, stenciling, design weaving, leather tooling, work in leaded glass, in sheet copper, brass, iron, and silver, and advanced work in pottery, such as casting, glazing, decorating, etc. (3 hours in T. C.).

14. MATHEMATICS.

Professor HEDRICK; Assistant Professor AMES.

For Undergraduates.

1a. **Trigonometry.** The regular course. *Five times a week;* (3). Professor HEDRICK.

1b. **Analytic Geometry.** The regular course. *Five times a week;* (3). Professor HEDRICK.

2a. **Advanced Algebra.** The course begins with a hasty review of elementary algebra, embracing quadratic equations. It covers the ground of the regular course in advanced algebra. *Five times a week;* (3). Assistant Professor AMES.

3a. **Elementary Differential Calculus.** This course corresponds to the course offered for academic students, and not to that required for students of engineering, but may be used by engineering students to remove conditions in 4E. *Five times a week;* (3). Assistant Professor AMES.

3b. **Elementary Integral Calculus.** The academic, not the engineering course. (See note in course 3a.) *Five times a week;* (3). Assistant Professor AMES.

For Undergraduates and Graduates.

s5. **Foundations of Mathematics.** A course with this title will be offered each summer, but the content will vary, so that the same student may receive credit repeatedly on the course. This summer the course will be directed to a critical view of high school texts from an exact point of view. The course is open only to mature students who have had at least the Calculus. *Five times a week.* (3). Professor HEDRICK.

For courses in elementary mathematics, see announcement of the Teachers College High School below.

15. MUSIC.

Assistant Professor POMMER.

1. **Elementary Public School Music.** This course includes notation; ear-training; dictation; sight reading; tone production; care and development of the child's voice; song interpretations;

practical teaching, and is primarily designed for grade teachers. *Five times a week; (2 hours credit in T. C.).*

In addition to the above course Professor Pommer will devote considerable time each day in chorus work, voice culture, supervision of instrumental work, etc., to meet the needs of students. This work is not intended for credit, tho some credit may be arranged.

16. PHILOSOPHY.

Acting Assistant Professor ELKIN.

For Undergraduates.

1. **Logic.** A study of the fundamental principles of deductive and inductive inference and their practical applications, together with an examination of the most general fallacies committed in reasoning. *Five times a week; (3).*

4a. **Practical Ethics.** Applications of the principles underlying conduct. The following topics will be discussed: virtues and vices; duty and conscience; self-control; the bodily life; the economic life; the spiritual life; the love of honor; benevolence; charity; justice; vivacity; ideals of life. *Five times a week; (3).*

For Undergraduates and Graduates.

6a. **Problems in Philosophy.** This is an advanced course, somewhat determined by the wish of the students enrolling. *Hours and credits to be arranged.*

17. PHYSICAL EDUCATION.

Mr. BURKHALTER; Dr. MONILAW; Mr. MELENDY.

This course is primarily intended to meet the needs of teachers who wish to prepare themselves for more efficient direction of the physical education and development and the athletic interests of their own students. The course will be of value to those also who are interested in their own physical development and in athletics. The instructors will conduct this work along two lines.

I. Class work consisting of lectures and discussion. *Three times a week; (2 hours in T. C.).*

1. The Playground Movement. MR. MELENDY.

2. The practical Organization and Administration of Physical Education, especially Play and Athletics. DR. MONILAW.

3. The Principles of Physical Education. Mr. BURKHALTER.

II. Field work on the outdoor gymnasium, on track, basketball, handball, tennis courts, and on baseball, hockey fields, etc., under the direction of Dr. Monilaw and Mr. Burkhalter.

Students taking part I for credit, must also take part II. Part II alone is open to all students who are invited to improve the opportunity of playing under direction.

The greater part of part I will be given to men and women together. Part II will be offered to men and women on their respective fields of play.

18. PHYSICAL GEOGRAPHY.

Dr. EMERSON.

5. The Principles of Geology. This is a lecture, library and laboratory course on the general principles of geology. Some excursions will be taken, the expense of which will be from three to five dollars. Text book, Introduction to Geology; Scott. (\$2.60). *Five times a week; (3).*

2a. Physiography. A course of study in the principles of physiography as illustrated in the physical features of North America. The subject will be taken up from the point of view of the needs of the high school teacher of Physiography, and will include the subject-matter as well as the equipment necessary for presenting it. Considerable attention will be given to the relations between physiography and the life of the people. The work will consist of laboratory and field work with occasional lectures and conferences. *Five times a week; (3).*

(Note:—Only one of courses 5 and 2a will be given; that for which there is the more demand.)

6a. Physical Geography. This is a course in general physical geography, including the topics usually treated in the better high school text-books, but treating the topics in considerable detail. It will be presented as a lecture, recitation, and laboratory course and may be taken as a preparation for more advanced geographic work or for teaching the subject in high schools. Excursions will be taken, the expense of which will not exceed five dollars. *Five times a week, (3).*

19. PHYSICS.

Professor STEWART; Dr. LOVING.

For Undergraduates.

1a. **General Physics; Mechanics, Heat, and Sound.** This course is intended to cover in an elementary manner the fundamental principles of physics. Lectures, recitations, and laboratory. *Five times a week; (3).* Dr. LOVING.

1b. **General Physics: Light, Magnetism, and Electricity.** This is the second semester's work of course 1 as given during the regular session, while 1a is the work of the first semester. *Five times a week; (3).* Professor STEWART.

16. **Electricity and Magnetism.** A non-mathematical course open to those who have taken course 1. In special cases students who have had only a good high school course may be admitted to this course. *Five times a week; (3).* Dr. LOVING.

For Undergraduates and Graduates.

One of the two following will be given:

12a. **Heat.** (3).

12b. **Light.** (3).

This course will be open to those who have completed course 1. It is intended for teachers who wish more advanced work but not mathematical in character. It consists entirely of text book work. *Five times a week; Professor STEWART.*

8. **Advanced Laboratory Work in Light and Electricity.** The work is entirely individual work, so that the division of time between light and electricity can be fitted to the needs of the individual student. (2 or 3). Professor STEWART.

20. PSYCHOLOGY.

Professor MEYER.

1a. **Introduction to Psychology.** This is a brief course, consisting mainly in the study of the text-book. No laboratory demonstrations. *Five times a week; (3).*

21. ROMANCE LANGUAGES.

Professor WEEKS; Dr. HELENE M. EVERS.

French.*For Undergraduates.*

s1. **Elementary French.** Fraser and Squairs' French Grammar (Heath & Co.). The class will begin reading immediately in Lazare's *Lectures Faciles*. (Ginn & Co.), which will be followed by some other simple texts. Great care will be given to pronunciation, and to teaching the art of rapid reading in a foreign language. *Five times a week*; (3). Professor WEEKS.

s2. **Second Year French.** Fraser and Squairs' French Grammar. No announcement is made of the books which will be read, except to say that they will be carefully chosen to give a true idea of French life, and to permit rapid progress of the students. The course may be taken with profit by those who have had more than one year of French. The course is meant to be of special value to teachers of the modern languages, including English. *Five times a week*; (3). Dr. EVERS.

Primarily for Graduates.

s21. **Seminar.** An opportunity is here given for work in the early period of French. This work is valuable for those who desire to obtain some idea of the beginnings of the language and literature. The course counts towards the Master's degree. *Hours to be arranged*. Professor WEEKS.

Spanish.*For Undergraduates.*

s18. **Elementary Spanish.** Hills and Ford's Spanish Grammar (Heath & Co.); Ramsey's Elementary Spanish Reader (Holt & Co.) The class will begin to read immediately, and will make rapid progress in the language. There will be much reading aloud, in order to aid the students to acquire a correct pronunciation. The course is meant to be of special value to those who would like to continue the subject alone after the close of the Summer Session. *Five times a week*; (3). Dr. EVERS.

22. SOCIOLOGY.

Professor ELLWOOD.

For Undergraduates.

1a. **Elementary Sociology.** An introduction to the scientific study of social problems. The course consists of lectures and reading on certain fundamental problems; such as the nature of sociology, its problems, methods, and relations to other sciences, the bearing of evolutionary theory upon social problems, the origin and evolution of the family, the modern divorce problem, the growth of population, birth and death rates, the Malthusian theory of population. Special attention will be given to the relation of education to social problems, Text-book; Small and Vincent's Introduction to the Study of Society. *Five times a week; (3).*

For Undergraduates and Graduates.

11b. **Criminal Sociology.** A study of the causes, nature and treatment of crime; the principles of criminal anthropology, criminal jurisprudence and penology. Among the topics treated are criminal statistics, the social causes of crime, the relations of criminality to degeneracy, the anthropology and psychology of the criminal, Negro criminality, the evolution of the criminal law, the reform of modern criminal procedure, modern prison systems, the county jail, the industrial reformatory, the indeterminate sentence, systems of prison labor, probation and parole, the treatment of the juvenile offender. Lectures, selected text-books, and reports by the class on special subjects for investigation. Special attention will be given to the relation of education to problems of delinquency. *Five times a week; (3).*

23. ZOOLOGY.

Assistant Professor ABBOTT.

For Undergraduates.

s1. **General Zoology.** A course intended to give a general survey of the field of zoological science, and to familiarize the student with a typical series of animal forms. In the laboratory the student studies by means of the microscope and dissection, selected animals, from the simpler forms, such as the amoeba, to the complex, such as the earthworm and the frog. *Five times a week; (3).*

For Undergraduates and Graduates.

s2. **Embryology.** A study of animal development from the evolutionary standpoint. The laboratory work will be based on the chick. The lectures will include a discussion of the general phenomena of development especially from the dynamic or physiological side. *Five times a week; (3).*

TEACHERS COLLEGE HIGH SCHOOL.**Administration.**

The Teachers College High School is a part of the work of the Teachers College, and is thus under the direction of the faculty of the Teachers College. The work of the school is under the immediate supervision of the Professor of Theory and Practice of Teaching.

Purpose of the School.

1. To serve as a school for the observation of approved methods of teaching the various subjects in public high schools. The work is thus planned to assist high school teachers, principals, and superintendents, who may wish to study actual class work.

2. To provide students with an opportunity to make up entrances units to the University and also to do the usual work of the public high school.

Session of the School.

The schedule is that of the Summer Session of the University. Classes meet five days in the week, but some meet twice in one day.

Credits.

Two units credit is the maximum allowed and this amount is usually allowed only to those taking the work as review.

Fees.

A fee of five dollars is charged for entrance. If a student is already registered in the Summer Session of the University, no extra fee is charged.

Courses in the High School.**ENGLISH.**

A. Composition. *Five times a week.* One-half unit credit.

B. Literature. *Five times a week.* One unit credit.

(Much outside reading is required in the Literature course.)

LATIN.

A. Beginning. *Five times a week.* One unit credit.

(Only those who have had some Latin are allowed to take this course, (except by special permission.)

B. Caesar. *Five times a week.* One unit credit.

(Extra hours on some days are needed to complete the work.)

HISTORY.

A. Mediaeval and Modern. *Five times a week.* One unit credit.

B. American. *Five times a week.* One unit credit.

(Much outside reading is required in both the history courses.)

SCIENCE.

A. Physics. *Five times a week.* One unit credit.

(Three days of two hours each for laboratory work are required in addition to the class work.)

MATHEMATICS.

A. Advanced Algebra. *Five times a week.* One-half unit credit.

B. Plane Geometry. *Ten times a week.* One unit credit.

(This class meets twice each day.)

C. Solid Geometry. *Five times a week.* One-half unit credit.

TEACHERS COLLEGE ELEMENTARY SCHOOL.

The elementary school of seven grades taught by four teachers will be in session two hours each day for six weeks. Those who are interested in elementary school work are cordially invited to spend what time they can observing some new methods of conducting elementary school work.

For further information in regard to the Summer Session of the University, address

The Director of the Summer Session,
University of Missouri,
Columbia.

For catalogue of the University and for special circulars of the Graduate Department, Academic Department, Teachers College, College of Agriculture, Department of Law, Department of Medicine, and School of Engineering, address Merrill E. Otis, University Publisher, Columbia, Missouri.



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