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SUMMER SESSION FOR 1903

(JUNE 1 TO AUGUST 28)

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COLUMBIA, MISSOURI

CALENDAR.

| | |
|------------------------------|--|
| Monday, June 1..... | Registration at opening of first term |
| Tuesday, June 2, 8 a. m..... | Lectures begin |
| Tuesday, July 14 | } Examinations |
| Wednesday, July 15..... | |
| Thursday, July 16..... | Registration at opening of second term |
| Friday, July 17..... | Lectures begin |
| Thursday, August 27..... | } Examinations |
| Friday, August 28..... | |
| Tuesday, September 8..... | Regular session begins |

For catalogue of the University and for special circulars of the Graduate Department, Department of Law, Department of Medicine, and School of Engineering, address the Registrar, Irvin Switzler, Columbia, Missouri.

FACULTY FOR THE SUMMER SESSION

- RICHARD HENRY JESSE, LL. D.,
President and Professor of Ancient and Mediaeval History.
- JOHN CARLETON JONES, A. M., Ph. D.,
Professor of Latin, Director of the Summer Session.
- EDWARD ARCHIBALD ALLEN, Litt. D.,
Professor of English Language and Literature.
- JOHN SITES ANKENNEY, JR.,
Instructor in Freehand Drawing.
- RALPH EMERSON BASSETT, A. M.,
Assistant Professor of Romance Languages.
- SIDNEY CALVERT, B. Sc., A. M.,
Assistant Professor of Chemistry.
- WILLIAM H. COOK,
Instructor in Manual Training.
- JOHN NELSON FELLOWS, A. M.,
Professor of Mathematics.
- JAMES THAYER GEROULD, A. B.,
(University Librarian.)
Lecturer on Library Organization.
- LAWRENCE E. GRIFFIN, Ph. D.,
(Professor of Biology, Missouri Valley College.)
Professor of Biology.
- LOUIS INGOLD, A. B.,
Acting Assistant Professor of Mathematics.
- MILLARD LEWIS LIPSCOMB, A. M.,
Professor of Physics.
- WILLIAM GWATHMEY MANLY, A. M.,
Professor of Greek.
- MAX MEYER, Ph. D.,
Professor of Experimental Psychology.
- RICHARD B. MOORE, B. S.,
Instructor in Chemistry.

- CURTIS FLETCHER MARBUT, A. M.,
 (Professor of Geology.)
Lecturer on Geography.
- FREDERICK BLACKMAR MUMFORD, M. S.,
Professor of Agriculture, and Curator of the Agricultural Museum.
- OSCAR MILTON STEWART, Ph. B., Ph. D.,
Assistant Professor of Physics.
- HENRY CAPLES PENN, A. B., A. M.,
Assistant Professor of English Language and Literature.
- GLEN LEVIN SWIGGETT, Ph. D.,
Acting Professor of German.
- NORMAN MACLAREN TRENHOLME, A. M., Ph. D.,
Assistant Professor of History.
- EUGENE MORROW VIOLETTE, A. B., A. M.,
 (Professor of History, State Normal, Kirksville.)
Instructor in History.
- RAYMOND WEEKS, A. M., Ph. D.,
Professor of Romance Languages.
- JOHN CHARLES WHITTEN, B. S., Ph. D.,
Professor of Horticulture.
- WILLIAM L. WESTERMANN, Ph. D.,
Instructor in Greek.

LECTURERS.

- W. T. CARRINGTON,
State Superintendent of Public Schools.
- E. B. CRAIGHEAD,
President of the Warrensburg Normal School.
- W. S. DEARMONT,
President of the Cape Girardeau Normal School.
- J. M. GREENWOOD,
Superintendent of Kansas City Schools.
- R. H. JESSE,
President of the University of Missouri.
- JOHN R. KIRK,
President of the Kirksville Normal School.

Purpose of the Summer Session

The Summer Session is intended to meet the needs of three classes of students, and the courses offered are designed for this purpose. It aims—

(1) To afford teachers in the secondary schools the opportunity of reviewing subjects that they teach and of gaining suggestions of new methods, and teachers in the district schools an opportunity to equip themselves for high school positions.

(2) To give to persons who are engaged during the regular session an opportunity to obtain University instruction with full credit therefor upon the books of the University, when such work is of Academic grade, or is required in any of the professional courses.

(3) To aid University students in making up work in which they have failed, or in which they are behind in their regular courses.

Time of Opening

The session begins June 1 and closes August 28, and is divided into two terms of six weeks each. The first term begins June 1 and closes July 15; the second term begins July 16 and closes August 28.

Each term contains thirty-six days devoted to lectures, one day for registration and two days for examinations. Students may enter at the beginning of the second term, but are strongly urged to enter at the opening of the session.

Courses

Courses will be given in Agriculture, Biology, Chemistry, English, Freehand Drawing, French, German, Greek, History, Horticulture, Latin, Manual Training, Library Training, Mathematics, Pedagogy, Physics and Psychology.

ALL OF THE COURSES, EXCEPT THOSE IN AGRICULTURE, WILL BEGIN AT THE OPENING OF THE FIRST TERM ON JUNE 1. The course in Agriculture will begin on July 16. All the courses except those in Agriculture, Freehand Drawing, Horticulture, Library Training, Pedagogy and Psychology, will continue for the entire session or up to August 28. The courses in Freehand Drawing, Horticulture, Library Training, Pedagogy, and Psychology will be given during the first term only. STUDENTS WHO ENTER EITHER TERM SHOULD REGISTER UPON THE OPENING DAY OF THAT TERM. This is absolutely necessary when the student expects to enter courses which he has not pursued before.

The lecture period will be ninety minutes, and no student will be permitted to take more than two courses.

Terms of Admission

There will be no formal examinations for admission. Students will be admitted to such courses as they are prepared for. Such students as desire University credit for their work must meet the entrance requirements or enter as special students.

Registration

Students should present themselves for registration at room 3, Academic Hall, on Monday, June 1, between the hours of 8 a. m. and 4 p.

m. Lectures will begin at 8 o'clock on June 2. It is important that every student be present on the opening day of the session.

Examinations

At the close of each term stated examinations for those who desire credit will be held in the several courses.

Credit for Courses in Summer Session

The number of hours' credit given for each course is stated in connection with the outline of the courses given later in this announcement. The maximum credit that the student may receive for one term's work is six (6) hours; for two terms' work, twelve (12) hours.

Students must attend *five-sixths* of a term to receive six hours' University credit and *two-thirds* of a term to receive three hours' credit. Students who attend less than *two-thirds* of a term will receive no credit whatsoever.

Acceptance of Grades

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 9066.)

The State Board has announced that no pupil shall be given credit in grades for teachers' certificates who has not attended the summer school giving the grades at least six-sevenths of the term.

The grades made in this school by an experienced teacher will be accepted by the State Superintendent of Public Schools in lieu of an examination on such subjects for State certificates. See page 8.

Libraries, Laboratories, Museums

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

The libraries, in the aggregate, contain about 40,000 bound volumes exclusive of duplicates, and several thousand pamphlets. The library of the State Historical Society contains 23,000 volumes. The general library will be kept open all day. Direct access to the shelves is permitted to all the students. The special libraries of those departments in which courses are given will be accessible to students at certain hours. Mr. J. T. Gerould, the University Librarian, will give for the benefit of the teachers a series of lectures on the arrangement and care of libraries. See page 16.

Gymnasiums

Rooms have been set aside in Academic Hall for a gymnasium for men and a gymnasium for women. These are well equipped with the necessary apparatus, and adjoining rooms have been fitted with baths and lockers. While no instruction is offered in physical training in the Summer Session, both of the gymnasiums will be kept open, in

charge of persons competent to direct such students as desire to make use of the facilities for exercise that the gymnasiums afford.

Out of Door Sports

In addition to the gymnasiums, there are athletic grounds, with base-ball and foot-ball fields and tracks constructed for bicycling and running. There are many miles of gravel roads about Columbia, which are good for bicycling. There are several excellent tennis courts on the campus, and a short distance away on the Agricultural College farm, there is a splendid golf links, laid out by an expert. Columbia is a delightful town of about 6,000 inhabitants. To teachers from the large cities, it offers all the comforts of an outing in the country.

Expenses

The fee for admission is \$5.00 for the session of twelve weeks or any part thereof. This is payable upon entrance to the treasurer of the University. Each student who takes laboratory work in Agriculture, Horticulture, Physics, Chemistry, Biology or Sloyd is required to make a deposit of \$5.00 with the Proctor of the University to cover laboratory fee of \$2.50, and damages or loss of University property. The deposit is \$5.00 for each laboratory, and the fee \$2.50 for each laboratory. Students who take both Agriculture and Horticulture are required to make only one deposit and to pay but one laboratory fee.

Good board, including room and service, may be had in private families at from \$3.00 to \$4.50 per week. If the students choose to organize themselves into a club, the expenses of living may be much reduced. Rooms may be rented in the University Boarding Club at \$3.00 a term of six weeks. All students renting rooms in a club house are required to make a deposit of \$3.00 to cover damages or loss of University property. Each room is furnished with a plain bedstead, table and two chairs. If two persons occupy one room the other furniture absolutely necessary may be bought or rented for the summer for ten or twelve dollars. Table board in these clubs can easily be brought within \$2.00 a week.

The laboratory deposit and the room deposit will be refunded at the close of the student's course, less the amount deducted for laboratory fee, and for loss of University property or damage thereto.

Railroad Rates

For three summers all the railroads of the State have granted a rate of one and a third to students of the Summer Session, and the same rate will no doubt be granted for the summer of 1903. The sale of the reduced fare tickets will be limited to *one week for each term, viz., May 30, 31, June 1, 2, 3, 4, 5, and July 14, 15, 16, 17, 18, 19.* Such tickets will be good for return passage up to September 1st. Tickets should be bought from *starting point through to Columbia and not to junction points.* A certificate (not a receipt) should be taken from the railroad agent at starting point. This certificate will show the name of the purchaser and the amount paid for the ticket. This certificate, when signed by J. C. Jones, Director of the Summer Session, will entitle the holder to purchase a return ticket at one-third fare.

The State Superintendent of Public Schools, Hon. W. T. Carrington, says:

Having taken a course in the Summer School of the State University, I can speak from experience. It furnishes the teachers of the State a most favorable opportunity to pursue systematically some definite line. This summer work originated in the demand for instruction in laboratory science teaching. It has gone further and established many departments. The English and History departments have important missions in teaching teachers how to develop these subjects and to demonstrate the fact that there is not less of genuine culture in these than in the sciences.

Every teacher of Science and Mathematics should take advantage of the Shopwork in the Summer School. It has been my privilege to be intimately associated with one who has done this work. His efficiency as a teacher of Geometry and Physics was increased fifty per cent by a six weeks' course in wood-work.

An appropriation made by the General Assembly enables the University of Missouri to offer teachers the very best that can be had anywhere, and hundreds of them should take advantage of this opportunity.

The grades made in this school by an experienced teacher will be accepted in lieu of an examination on such subjects for State certificates.

No grades will be accepted by the Superintendent except upon subjects required for State certificates, and no substitutions will be allowed.

COURSES OF INSTRUCTION

[The letter "s" prefixed to each of the courses is used to distinguish such course from those of the same number offered during the regular session. The number in parenthesis after each course indicates the number of hours' credit given.]

1. Agriculture

(*Second Term Only.*)

Professor MUMFORD.

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

The following course is offered:

s1. Soils and Plant Studies, with Reference to Agriculture.

This course will aim to give a clear general knowledge of the principles of Agriculture. Laboratory work and numerous excursions will give definiteness to the class-room instruction. The character of the work is adapted to teachers who may later desire to introduce this instruction into the public schools. *Six times a week; (3).*

2. Biology

First Term.

*Professor ———; Professor GRIFFIN.

The following courses are offered:

s1. General Biology. This course is intended to give a general survey of the field of biological science, and to familiarize the student, by instruction and individual observation, with a typical series of living forms. In the laboratory each student studies, by means of the microscope or dissection, selected animals and plants, from the simpler forms, such as amoeba and yeast, to the complex, such as the earthworm, the fern, the frog and the flowering plant.

*To be appointed.

Special attention is directed to the needs of those who expect to become teachers of Biology. Excursions from time to time into the neighboring country offer an opportunity of gaining experience in collecting animals and plants used in laboratory work; the best methods of preserving and preparing material for instruction are demonstrated, and such subjects as the equipping of laboratories and methods of teaching Biology in secondary schools are discussed in a special series of lectures. This course will be accepted for entrance to the University. *Six times a week.*

s2. Embryology of Vertebrates. The development of the chick is thoroughly studied in the laboratory, and these observations are used in the lectures as a basis of comparison with the development of higher forms, including that of man. *Six times a week; (3).*

Second Term.

s1. General Biology. Continuation of course s1 as described above. *Six times a week.* Professor GRIFFIN.

s3. Histology. *Six times a week; (3).*

Professor GRIFFIN.

3. Chemistry

Assistant Professor CALVERT; Mr. MOORE.

The following courses are offered:

s1. A course in General Inorganic Chemistry, mainly laboratory work, intended primarily for teachers and those wishing to review the fundamental basis of the science experimentally, in which the object is rather to impart scientific method than chemical facts by a comparatively few quantitative experiments carefully manipulated, accurately observed and correctly interpreted. This course will be most profitable to those having some knowledge of Chemistry, but may be taken by those wishing to offer Chemistry for entrance to the University, for which it will be accepted. *Six times a week; (3).*

Assistant Professor CALVERT.

s2. A course in Qualitative Chemical Analysis. *Six times a week; (3).*

Assistant Professor CALVERT.

Second Term.

s1. A continuation of course s1 outlined above. Mr. MOORE.

s2. A continuation of course s2 outlined above. *Six times a week; (3).* Mr. MOORE.

4. English

Professor ALLEN; Assistant Professor PENN.

First Term.

The following courses are offered:

s1. A course in English literature from Chaucer to Shakspeare, including the critical study of selected English classics. This course is designed especially for teachers of English in the high schools. *Six times a week; (3).* Professor ALLEN.

s2. A course in the history of the English language, for teachers only. No University credit is given. *Six times a week.*

Professor ALLEN.

Second Term.

s1. Continuation of course s1, beginning with Milton. *Six times a week; (3).* Assistant Professor PENN.

s3. Rhetoric and Composition, designed especially for high school teachers of English. *Six times a week; (3).*

Assistant Professor PENN.

5. Freehand Drawing

Mr. ANKENEY.

(*First Term Only.*)

The following courses are offered.

s1. Drawing and Design for Public Schools. *Six times a week; (3).*

s2. Advanced Drawing and Design. *Six times a week; (3).*

Probably an afternoon course in drawing and painting out of doors will be given. Good subjects are to be found at a short distance from the University.

6. French

Professor WEEKS; Assistant Professor BASSETT.

First Term.

An elementary and an advanced course are offered.

s1. Elementary Course. This course is meant for beginners, and for the teachers whose elementary training in French has not been thorough. The grammar used will be Grandgent's Short French Grammar. The very closest attention will be paid to the pronunciation. *Six times a week; (3).* Professor WEEKS.

s2. Advanced Course. This course will be suited to those who have had one or two years' French. There will be a survey of the more important points in the grammar, together with some writing of French. In the matter of reading aloud, the students will receive the most careful attention to the end of training the ear. This course is meant to be of especial value to those desiring to teach French later. *Six times a week; (3).* Professor WEEKS.

Second Term.

s1. Elementary Course. A continuation of course s1 above. *Six times a week; (3).* Assistant Professor BASSETT.

s2. Advanced Course. A continuation of course s2 above. *Six times a week; (3).* Assistant Professor BASSETT.

7. German

Acting Professor SWIGGETT; *Professor ———.

First Term.

The following courses are offered:

s1. Elementary Course. This will comprise a study of the grammar and structure of the language, easy prose reading, translation of English into German, also as much German conversation as is practicable. *Six times a week; (3).*

*To be appointed.

s2. German Drama of the Postclassic Period (Halm, Hebbel, Ludwig.) Three years of German required. *Six times a week; (3).*

Second Term.

s1. Elementary Course. A continuation of course s1 above. *Six times a week; (3).*

s3. Modern German Lyrics. Two years of German required. *Six times a week; (3).*

8. Greek

Professor MANLY: DR. WESTERMANN.

First Term.

The following courses are offered:

s1. Elementary Greek. This course is intended for those who wish to begin the study of Greek, and for teachers who wish to become more thorough in the elements of the language, and to study methods of teaching Greek. White's First Greek Book will be used. The course will be equivalent to the work done during the first semester of the regular session. *Six times a week; (3).* Professor MANLY.

s2. Xenophon's Anabasis. In this course systematic and thorough drill will be given in forms and syntax by explanations from the text, and by translations from English into Greek. The following text books will be used: Goodwin and White's Xenophon's Anabasis, Goodwin's Greek Grammar, and Pearson's Greek Prose Composition. The course will be equivalent to the work done in the first semester of the regular session. *Six times a week; (3).* Professor MANLY.

s3. The Apology and Crito of Plato, and the Memorabilia of Xenophon. This will not be a drill in syntax, but will have as its object to cultivate the ability to read rapidly at sight and a taste for literature. It will also furnish an introduction to the study of the philosophy of Socrates. The texts to be used are Kitchel's Apology and Crito of Plato, and Winans' Memorabilia of Xenophon. *Six hours a week; (3).*

Professor MANLY.

Of the above courses only two will be given according to the demand.

Second Term.

s4. This course will be a continuation of course s1, above, and will be the same as the work of the second semester of the regular session. *Six times a week; (3).* DR. WESTERMANN.

s5. This course will be a continuation of course s2, above, and will be the same as the work of the second semester of the regular session. *Six times a week; (3).* DR. WESTERMANN.

s6. This course will be a continuation of course s3, above. *Six times a week; (3).* DR. WESTERMANN.

9. History

Assistant Professor TRENHOLME; Mr. VIOLETTE.

The following courses are offered:

s1. Ancient History. A general course in which the Oriental races will first be briefly dealt with and then a more detailed study

made of the history of Greece and Rome. The method of instruction will be by lectures and oral and written quizzes. It is desired to make this course especially beneficial to teachers of history and as far as possible the work will be critical and interpretative. The best textbooks and works of reference will be accessible to the class and constant reference will be made to them. Such elementary knowledge of the period as may be obtained from the study of Myers' Ancient History is presupposed in this course. *Six times a week; (3).*

Assistant Professor TRENHOLME.

s2. English History. A course of thirty-six lectures supplemented by parallel reading and written exercises the design being to cover the general field of English History in a topical manner. As far as possible the lectures will follow the chronological order and particular attention will be paid to social and institutional changes. This course must be preceded by course s1 or equivalent. *Six times a week; (3).*

Assistant Professor TRENHOLME.

Second Term.

s1. Mediaeval and Modern History. This is a continuation of Course s1 above and must be preceded by it or equivalent. It will deal with the history of Europe from the beginning of the Middle Ages down to comparatively recent times. Such elementary knowledge of the period as may be obtained from Myers' Mediaeval and Modern History is presupposed. The aim, methods, etc., will be substantially the same as those outlined above under Course s1. *Six times a week. (3).*

Mr. VIOLETTE.

s3. American History. A general survey of American history from the age of discovery and colonization to the present time. Special stress will be laid on the social and political development of the United States. This course presupposes some elementary knowledge of European and English history and should be preceded by courses s1 and s2 of the first term or their equivalent. *Six times a week. (3).*

Mr. VIOLETTE.

10. Horticulture

(First Term Only.)

Professor WHITTEN.

The following course is offered:

s1. Plant studies with reference to Horticulture. The growth and development of plants in relation to their surroundings; the propagation of plants in nature and under culture; how to plant and use a school garden; beautifying home and school grounds. *Six times a week; (3).*

This course will consist of one lecture daily, followed by laboratory work. It forms along with the course in Agriculture a continuous course in nature study. The work is accepted by the State Superintendent, as a course in practical Agriculture.

11. Latin

Professor JONES; Professor *—————

First Term.

The following courses are offered:

s1. A course for teachers which will embrace a review of the entire preparatory course as given in the approved schools. Methods, helps in the way of books and illustrations, the chief difficulties and defects in preparatory Latin teaching will be discussed. *Six times a week; (3).*
Professor JONES.

s2. Rapid Reading; Selections from the Historians. The object of this course is not to burden the student with the details of syntax, but to read a large amount of Latin. *Six times a week; (3).*
Professor JONES.

s3. Vergil, *Aeneid*. This course is intended primarily for teachers in the secondary schools. Special attention will be paid to the quantitative reading of Latin verse, to questions of syntax and style and to such features of ancient life as may be suggested by the text. *Six times a week; (3).*
Professor JONES.

Of the above courses only two will be given, to be determined by the demand.

Second Term.

s4. Latin Composition. This course is intended to be supplementary to the course for teachers given during the first term. It is intended to provide better equipment for teaching Latin Composition. *Six times a week; (3).*

s5. Cicero, *De Amicitia*. Systematic study of moods and tenses. Practice in reading aloud and in translating at hearing. *Six times a week; (3).*

s6. Roman Drama. This course will include the reading of a play of Terence and a play of Plautus. *Six times a week; (3).*

Of the above courses only two will be given, to be determined by the demand.

12. Mathematics

Professor FELLOWS; Acting Assistant Professor INGOLD.

First Term.

The following courses are offered:

s1. Plane and Spherical Trigonometry. Logarithms. *Six times a week; (3).*
Professor FELLOWS.

s2. Analytic Geometry. An elementary course in Plane Analytic Geometry. Trigonometry required. *Six times a week; (3).*
Professor FELLOWS.

s3. Calculus. An introductory course in the Differential and Integral Calculus. Analytic Geometry required. *Six times a week; (3).*
Professor FELLOWS.

Only two of the above courses will be given, to be determined by the demand.

*To be appointed.

Second Term.

s4. Algebra. A course in Advanced Algebra. High School Algebra required. *Six times a week; (3).*

Acting Assistant Professor INGOLD.

s5. Calculus. An advanced course in the Integral Calculus. Course s3 required. *Six times a week; (3).*

Acting Assistant Professor INGOLD.

s6. Theory of Equations. *Six times a week; (3).*

Acting Assistant Professor INGOLD.

Only two of the above courses will be given, to be determined by the demand.

13. Manual Training

Mr. COOK.

First Term.

s1. A course for teachers in grades one to six. *Six times a week; (3).*

This course will consist of the following:

(a). Clay Modeling. Pottery Modeling of simple animal, vegetable and other forms with which children are familiar.

Pottery models consist of pottery forms of the well known Indian pottery and forms of the Greek vases. Students will have use of a china kiln and a potter's wheel.

This work may be adapted to any of the first five grades. The materials used are very cheap in Missouri.

(b). Basketry. Coiling, braiding and sewing of raphia, making mats, doll hats, baskets, etc.; weaving of reeds, rattan or raphia into many common forms of baskets.

This course may be made valuable as a study in proportion and in color harmony.

(c). Weaving. Spinning of yarn; warping and weaving into small blankets; the use of the larger loom, together with some work in cord-work.

(d). Bent Iron. Models of the bracket truss, teapot standard, bookend, candlestick, etc.

(e). Paper and Cardboard. Standard models will be given along with some work in miniature furniture forms.

(f). Sloyd. Use of the sloyd knife with the usual models in thin woods and some use of benches and bench-tools.

The course above outlined is easily arranged for in the ordinary schoolroom as the materials and equipment are very inexpensive.

s2. Benchwork in wood. A course for teachers in the seventh and eighth grades and in the high school. *Six times a week; (3).*

This course will include: the knowledge of woodworking tools; designing and construction of articles of furniture; decorations of various kinds; lectures on the elements of construction; conferences on the economics and purposes of Manual Training.

Students who elect these courses are urged to take courses in drawing.

Second Term.

s1. A course for teachers in grades one to six.

This is a continuation of course s1 described above. *Six times a week; (3).*

s2. A course for teachers in the seventh and eighth grades and in the high school.

This is a continuation of course s2 described above. *Six times a week; (3).*

14. Physics

Professor LIPSCOMB; Assistant Professor STEWART.

First Term.

The following courses are offered;

s1. Elementary Physics, Mechanics, Sound and Heat.

This course will consist for the most part of laboratory work, and is designed especially for teachers. *Six times a week.*

Professor LIPSCOMB.

s2. General Physics, Mechanics, Sound and Heat. *Six times a week; (3).*

Professor LIPSCOMB.

Second Term.

s1. Elementary Physics, Electricity, Magnetism, and Light.

This is a continuation of course s1, described above. *Six times a week.*

Assistant Professor STEWART.

s2. General Physics, Electricity, Magnetism, and Light.

This is a continuation of course s2, described above. *Six times a week; (3).*

Assistant Professor STEWART.

Course s1 can not be counted towards an Academic degree, but may be used as an entrance unit.

SPECIAL COURSES AND LECTURES FOR TEACHERS

The special attention of teachers is called to the lectures on rural schools by Superintendent Carrington and by the Presidents of the Normal Schools; also to the lectures by Superintendent Greenwood on School Management. The courses in Experimental Psychology and in Library Training have been arranged to meet the special needs of the teachers.

15. Psychology and Pedagogy

(First Term Only.)

A. Psychology.

Professor MEYER.

s1. Special course for teachers.

The subject matter of the course will be selected according to the special needs and interests of the teacher. There will be a lecture of one hour every day, and an hour and a half of laboratory work done by the student under the direction of the professor. The following is an outline of the course:

Structure and functions of the sense organs. Sensations: their classification and analysis. Attention. Perception of space and time. Association of ideas. Illusions. Memory. Feeling. Emotion. Will. Normal and hypnotic suggestion. Laws of mental and physical growth. Laws of mental activity. Play and work. Fatigue. Mental tests in educational practice. General ability and special abilities. *Six times a week; (3).*

B. Pedagogy

Lectures on Rural Schools—June 2-12.

Lectures on problems connected with rural schools will be delivered by Superintendent W. T. Carrington, President E. B. Craighead, President W. S. Dearmont, President John R. Kirk, and President R. H. Jesse. Such questions as Courses of Study, Organization, Methods of Improvement, etc., will be fully discussed.

Geography—June 2-9. Two hours a day.

Professor MARBUT.

The Teaching of Geography. A course of twelve lectures on the content of public school geography, the method of teaching it and the sources of material for properly illustrating it. The geography work of the whole public school course will be considered, though the main consideration will be given to the work in the 6th, 7th and 8th grades.

School Management—June 15 to 20. Two hours a day.

Superintendent GREENWOOD.

This course of lectures will include a discussion of the following subjects:

How to organize a school; the mechanics of the school; the teacher; the pupil; the subject matter; how to teach; the recitation; how the pupil learns; how to control; how to size up results.

16. Library Training

Mr. GEROULD.

(First Term Only.)

A course mainly intended for teachers and those in charge of school libraries, will be offered in the use of reference books, in book selection, ordering, accessioning and cataloguing. Brief lectures will be given, supplemented by practical work along the lines outlined in the lectures.

The course is designed to assist teachers in making the work of their school libraries more effective. *Two hours, three times a week.*

For further information in regard to the Summer Session, address

J. C. JONES, DIRECTOR,
Columbia, Missouri.

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