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ANNOUNCEMENT
OF THE
COLLEGE OF ARTS AND SCIENCE
1913-14



UNIVERSITY OF MISSOURI
COLUMBIA, MISSOURI
February, 1913

UNIVERSITY CALENDAR

AT COLUMBIA.

1913

Summer Session

June 12,	Thursday, Registration.
June 13,	Friday, Organization of Classes.
July 4,	Friday, Holiday.
August 12,	Tuesday, Lectures Close.
August 13,	Wednesday
August 14,	Thursday
	} Examinations.

First Semester

September 15, 16, 17,	Monday, Tuesday and Wednesday, Entrance Examinations and Registration.
September 18,	Thursday, at 8 a. m. Class Work in All Divisions Begins.
September 18,	Thursday, at 10 a. m. Opening Convocation.
October 2,	Thursday, Quarterly meeting of Curators.
November 27,	Thursday, Thanksgiving Holiday.
December 16,	Tuesday, Annual Meeting of Curators.
December 19,	Friday, at 4 p. m. to

1914

January 5,	Monday, at 8 a. m.	} Christmas Holidays.
January 24,	Saturday, to	
January 31,	Saturday	} Mid-Year Examinations.

Second Semester

January 29, 30, 31,	Thursday, Friday, and Saturday, Entrance Examinations.	
February 2, 3,	Monday and Tuesday, Registration, Second Semester.	
February 4,	Wednesday, at 8 a. m. Class Work in All Divisions Begins.	
February 5,	Thursday, at 10 a. m., Opening Convocation.	
April 2,	Thursday, Quarterly Meeting of Curators.	
April 9,	Thursday, at 4 p. m. to	
April 15,	Wednesday, at 8 a. m.	} Easter Holidays.
May 30,	Saturday, to	
June 6,	Saturday	} Final Examinations.
June 7,	Sunday, Baccalaureate Sermon.	
June 8,	Monday, Class Day.	
June 8, 9, 10,	Monday, Tuesday, and Wednesday, Entrance Examinations.	
June 9,	Tuesday, Alumni Day.	
June 10,	Wednesday, Commencement Day.	
June 10,	Wednesday, Semi-Annual Meeting of Curators.	

THE UNIVERSITY OF MISSOURI.

The University of Missouri was located at Columbia, in 1839, and instruction in Academic work was begun in 1841. In carrying out its aim to be of the highest service to the State, the University offers not only ample facilities for liberal academic training, but also for professional training. Beginning as a College of Arts and Science in 1839, it has established new divisions of instruction from time to time as these seemed to be required by the citizens of the State and it now consists of the following:

- I. College of Arts and Science (1839).
- II. School of Education (1867).
- III. College of Agriculture (1870).
- IV. School of Mines and Metallurgy at Rolla (1870).
- V. School of Law (1872).
- VI. School of Medicine (1873).
- VII. School of Engineering (1877).
- VIII. Graduate School (1896).
- IX. School of Journalism (1906).
- X. Extension Division (1910).

There are also special minor divisions for particular lines of work, the chief of which are: the Agricultural Experiment Station, the Engineering Experiment Station, the Mining Experiment Station, and the Military Department. All of these divisions are located at Columbia with the exception of the School of Mines and Metallurgy and the Mining Experiment Station, which are at Rolla.

Columbia is a town of about 10,000 inhabitants and is situated near the center of the State, half way between St. Louis and Kansas City. It is reached by the Wabash and the Missouri, Kansas and Texas Railways. It is a prosperous town, affording pleasant homes for students, with the conveniences of a larger city without its diversions.

The grounds at Columbia comprise over seven hundred acres and are divided into the Quadrangle, the Horticultural Grounds, the Physical Education Grounds, and the Agricultural College Farm.

The following University buildings are located at Columbia: Academic Hall; Laws Observatory; separate buildings for Chemistry, Agricultural Chemistry, Physics, Zoology and Geology; Engineering; Manual Arts; three powerhouses; Medical Laboratory Building; Parker Memorial Hospital including the Busch Clinic; Agricultural Building; Horticultural Building; Green Houses; Live-

Stock Judging, Dairy, Farm Machinery, and Veterinary Buildings, and the Agricultural College Farm Barns and Buildings; Switzler Hall (Journalism); the President's house, and the dwelling of the Dean of the College of Agriculture; Benton and Lathrop Halls (dormitories for men); Read Hall (dormitory for women); Rothwell Gymnasium; the High School and the Elementary School Buildings used for practice schools by the School of Education.

COLLEGE OF ARTS AND SCIENCE.

In the present organization of the University, the College of Arts and Science is the gateway to all the professional schools, since two years of the work in this College, or the equivalent, is now required for admission to all professional and technical work, except that offered in the College of Agriculture. Students intending to enter the Schools of Education, Law, Medicine, Engineering, or Journalism will find excellent opportunities offered in the College of Arts and Science to secure the sixty hours credit necessary for admission. The elective system in the College makes it possible for students to take such specific subjects as may be prescribed as a part of the sixty hours required.

While the preparation of students for admission to the various professional schools is an important function of the College of Arts and Science, it is by no means so important as the training of students who wish to become candidates for the degree of Bachelor of Arts or for higher degrees. For such students the College offers a wide range of courses in the following subjects: anatomy and histology, astronomy, botany, chemistry, classical archaeology and the history of art, economics, education, English, geology and mineralogy, Germanic languages, Greek, history, Latin, mathematics, music, pathology and bacteriology, philosophy, preventive medicine, experimental psychology, physical training, physics, physiology, political science and public law, Romance languages, Sanskrit and comparative philology, sociology, theory and practice of art, and zoology.

Statistics show that the college graduate has an immense advantage over the non-graduate in all fields of human endeavor requiring the exercise of a well disciplined mind. This is true not only of all the professions, but it is also true of the higher forms of commercial activity. Those at the head of important business enterprises are now seeking college graduates for the most responsible positions. Thus, a college training, to put it on the very lowest plane, increases many fold the earning capacity of the student who will put himself in the way of receiving it; and by increasing the earning capacity of those whom it trains, the College is adding yearly great

sums to the riches of the commonwealth. This, however, is the least return made to the state for the support which it gives. The larger return is found in the increased fitness for service given to those who will be future citizens, in the higher ideals of life and duty imparted to them, and in the larger capacity for happiness created in them.

REQUIREMENTS FOR ADMISSION.

Fifteen (15) units are required for entrance to this College. A unit is the equivalent of a subject pursued five periods a week for at least thirty-six weeks.

Of these units the student must offer at least three in English, one in algebra, one in plane geometry, and two in one foreign language. The subjects in which the remaining eight units must be offered and the number of units that may be offered in each subject are set forth below.

English: One unit, in addition to the three units required.

History: Four units. They may be in ancient history, mediaeval and modern history, English history, American history. A half unit in English or American history will be accepted only when accompanied by at least one unit in European history. One-half unit in civil government will be accepted only when accompanied by at least one-half unit in American history.

Mathematics: Two units, in addition to the two units required. These may be advanced arithmetic, one-half unit; algebra, one unit; solid geometry, one-half unit; plane trigonometry, one-half unit.

Sciences: Not less than one nor more than two units may be offered in any of the following sciences: botany, chemistry, physics, zoology. One unit may be offered in each of the following: agriculture, general biology, physiology (when preceded by a year in general biology, botany or zoology), physical geography.

Foreign Languages: Units may be offered in Latin, Greek, German, French, or Spanish: not less than two units in any one language nor more than four in Latin, three in Greek, three in German, three in French, and three in Spanish.

Miscellaneous: Not less than one nor more than two units in each may be offered in drawing, domestic science and manual training. One unit in each may be offered in bookkeeping and music, one-half unit in each may be offered in economics and commercial geography. Not more than four units, however, may be offered in commercial and industrial subjects.

Admission from Accredited Schools: Graduates of accredited schools are admitted to the College of Arts and Science without examination, when they present a certificate signed by the Principal

or Superintendent showing that they have completed the requirements for admission as set forth above. This certificate should be sent to the Dean of the University Faculty as early in the summer as possible.

Admission by Examination: Examinations for admission for students who are not graduates of Accredited Schools are held in September, February and June of each year. For exact date and program, see the annual Catalogue.

Admission of Special Students and Hearers: Students over twenty-one years of age, who show good reasons for not taking a regular course and who pass such tests as demonstrate their fitness to pursue the courses selected, may be admitted by the Dean of the University Faculty as special students without passing the regular examination required for admission. If they do not wish to take work for credit, they may be admitted as "hearers," in which case they are exempt from the requirements of regular class attendance and examinations.

Admission with Advanced Standing: Students from other universities or from colleges or normal schools are granted advanced standing upon work done there in so far as it is the equivalent of courses offered in this College. At least one year's work in residence (the senior year), however, is required for graduation.

REQUIRED WORK.

The required work of the College is arranged with the view of supplementing and rounding out the training of the high school. Students frequently go through the high school without any knowledge of important languages or sciences or with insufficient knowledge of them. To supply such deficiencies in the student's preparatory training, certain courses are required during the freshman or sophomore year. Every student is required to take at least three hours in English. The other requirements depend upon the work done by the students in the high school.

If a student does not present three units for admission in mathematics, five hours in mathematics or two hours in logic and three hours in psychology are required. If he does not present four units in ancient languages and four units in history for admission, five hours in each are required. If he does not present three units in modern languages, five hours of modern languages are required. If he does not present two units in biological science (botany, zoology) and two units in physical science (chemistry, physics), five hours in each are required.

ELECTIVE WORK.

With the exception of the required work mentioned above the work in the College is wholly elective and the student makes such choice and combination of the courses offered as he desires subject to the restrictions imposed by his adviser. Before the close of the sophomore year each candidate for graduation must select a major and a minor and this selection must be approved by a professor or an assistant professor chosen by the student from that Division of the College in which he wishes to make his major. The courses approved by the adviser are thereby prescribed for the student.

STUDY-CARDS.

At the opening of the session each student is required to enter on a blank form provided for that purpose, called a **study-card**, a list of the studies he wishes to pursue. The student must consult the Committee on Enrollment or the Dean in making out this card. He must also fill out a **course card** for each course entered on the study-card.

A student may not take more than sixteen nor less than twelve hours a week (physical training and military science not counted), but permission to add work without credit in the College of Arts and Science above the limit of sixteen hours shall be at the discretion of the Dean. When a student has elected a course that runs through both semesters, he must abide by the election unless he fails in the work of the first semester or can secure the permission of the Faculty to abandon it or to make a substitution.

GRADES.

While no student is permitted to sign up for more than sixteen hours, he may gain considerable extra credit by **excellent** or **superior** work. For work of the grade of E (the highest grade) **thirty per cent additional credit** is given, and for work of the grade of S (the next highest grade) **fifteen per cent additional credit** is given. This extra credit may not be counted in estimating a major or a minor. It may be counted, however, in the total number of hours required for graduation and makes it possible for the student of superior ability to **materially shorten** his course. The ablest and most industrious students can complete the requirements for the degree of Bachelor of Arts in **three and one-half years**.

ELECTIVES FROM OTHER DIVISIONS.

A large number of courses in other Divisions are open to stu-

dents in the College of Arts and Science, which they may elect for credit towards the degree of Bachelor of Arts. The total credit, however, that may be received for such courses is limited to nine hours, except for work in Law and in Home Economics. Seniors may elect twenty-two hours from the first year in Law, and women students may elect fifteen hours in Home Economics. Students may also elect nine hours from certain courses given in the Bible College. For a list of courses that may be elected, see the annual Catalogue.

COMBINED COURSES.

Seniors in the College of Arts and Science are permitted to elect practically the entire first year of Law, thus enabling them to complete the requirements for the degree of Bachelor of Arts and Bachelor of Law in six years. All the courses of the first and second years in Medicine are accepted for credit in the College except principles of medicine, a one hour course, thus enabling the student to complete the requirements for the degree of Bachelor of Arts and for the Medical Certificate in four years. Students may also complete in four years and one summer by doing good work the requirements for the degree of Bachelor of Science in Education and for the degree of Bachelor of Arts.

REQUIREMENTS FOR GRADUATION.

One Hundred and Twenty (120) Hours are required for graduation. This is four years' work for the average student. Included in this total credit of one hundred and twenty hours, the student must have a major of at least twenty-four hours and a minor of at least twelve hours. At least twelve hours of the major must consist of advanced work. The student chooses his own major and minor, but the courses making up the major or minor must be approved by his adviser, as explained under "Elective Work" (see page 7). The major and the minor are not made in subjects, but in Groups of the College. These Groups are as follows: (1) Classical Languages (Classical Archaeology, Greek Latin, Sanskrit and Comparative Philology); (2) Modern Languages (English, German, Romance Languages); (3) Philosophy and Education (Education, Philosophy, Experimental Psychology); (4) History and Political Science (Economics, History, Political Science and Public Law, Sociology); (5) Mathematical and Physical Sciences (Astronomy, Chemistry, Geology and Mineralogy, Mathematics, Physics); (6) Biological Sciences (Anatomy and Histology, Botany, Pathology and Bacteriology, Physiology, Preventive Medicine, Zoology).

For further particulars, see the annual Catalogue.

HONORS CURRICULA.

The Faculty of the College of Arts and Science is desirous of encouraging in every way high scholarship on the part of its students. For this purpose a system of "Honors Curricula" has been adopted for the encouragement of capable and industrious students. To be eligible for admission to an honors curriculum, a student must have sixty (60) hours towards graduation. He must have made an average grade of S (superior) in all courses required for admission to the honors curriculum which he wishes to pursue, and in all other courses completed by him he must have made an average of M (medium). For graduation with honors, a student must complete at least 90 hours and in addition to this he must have done to the satisfaction of those in charge of his honors courses, all the work of those courses. He is also required to pass thorough oral and written examinations on all the work of the honors curriculum pursued by him. When a student has fulfilled these requirements, he will be recommended for the degree of Bachelor of Arts with honors or with high honors in the subject or subjects of his honors curriculum, according to the measure of excellence which he has shown in his work and in the final examinations.

SCHOLARSHIPS AND PRIZES.

The following scholarships and prizes are open to undergraduates in the College of Arts and Science:

Curators' Scholarships.

1. Honor Graduates of Accredited High Schools:

This scholarship is awarded to that member of the graduating class of an accredited high school who has the highest rank and entitles the holder to exemption from library and incidental fees for the first year, provided the student presents his certificate within two years after graduation.

2. Debating and Essay:

Annual inter high school contests in essay and debating are held at the University on the first Saturday in May between representatives of the fully accredited public high schools of the State. The winner of each contest is awarded a scholarship of the value of \$125.00.

3. Honor Graduates of the Missouri College Union and Honor Graduates of the State Normal Schools:

The student attaining the highest grade or who shall be first in merit in taking the degree of A. B., B. S., or B. L. in the graduating

class of any of the colleges composing the Missouri College Union and the student obtaining the highest grade or who shall be first in merit in the graduating classes of the advanced normal course of any of the State Normal Schools will be admitted to the College of Arts and Science for the first year without payment of any tuition, library or incidental fee.

Scholarship in American Citizenship:

This scholarship was established in 1908 by the Missouri Society of the Colonial Dames of America and is awarded by this Society upon examination. It is of the annual value of two hundred and fifty dollars and is awarded for four years. The next regular award will be made in 1914. For further information address the Committee on the Scholarship in American Citizenship, Columbia, Missouri.

F. P. Blair Scholarship:

A scholarship of the value of two hundred and fifty dollars (\$250) a year was established in 1911 by Mrs. B. B. Graham of St. Louis, in memory of her father, the late Francis Preston Blair. It is awarded on the same general terms as the Scholarship in American Citizenship. The next regular award of this scholarship will be made in 1914.

Rhodes Clay Scholarship:

The value of this scholarship is \$250.00. It is open to students in the College of Arts and Science only and is awarded to that member of the Freshman Class, who on the score of scholarship, deportment, and general worthiness is judged entitled thereto by a committee appointed by the President of the University.

James S. Rollins Scholarships:

Two scholarships of the value of \$50.00 each are awarded annually by the faculty to those members of the junior class in the College who have the highest rank.

William J. Bryan Prize:

This prize, which consists of \$17.50 in money or a medal of equivalent value, is awarded for the best essay on some subject pertaining to the science of government. The subject for 1913-14 is "Need of a Systematic Budget for the Federal Government of the United States".

Nelson C. Field Prize:

This prize is open to students in the College of Arts and Science only. It is an annual prize of \$100.00 and is awarded for the best poem.

Charles W. Moore Prize:

This prize of the value of \$50.00 is open to any student having at least five hours credit in sociology and is awarded for the best thesis on some sociological subject.

William Volker Prizes:

Two prizes, one of the value of \$50.00 and one of the value of \$25.00, are offered for the best papers along the lines of social and philanthropic work. These prizes are open to sophomores, juniors, and seniors.

Laws Astronomical Medal:

This medal is offered annually at Commencement to the student who stands highest in astronomy, with a high average of general scholarship, and who submits an original thesis on some astronomical subject.

McAnally Medal:

This medal is offered for the best essay, thesis, or poem by a member of the senior class. The subject for 1913-14 is "John Keats".

Stephens Medal:

This medal, the value of which is the annual interest on \$500.00, is awarded annually for the best oration by a member of the senior class.

ELIMINATION OF DEFICIENT STUDENTS.

The elimination of incapable and idle students is just as important for the maintenance of high scholastic standards as the encouragement of the capable and industrious ones. Students without ability and without purpose not only waste their own time and money, but they waste the time of other students and the money of the State. For this reason the Faculty of the College has adopted two rather strict regulations for the elimination of deficient students. The first provides that a student who fails in a certain proportion of his work at the close of any semester shall be dropped from the College. The second is cumulative in its effect and provides for the elimination of the student who habitually falls behind in his work. Such a student is eliminated when the sum of his failures reaches a certain total.

FEES AND EXPENSES.

Students who are residents of the State pay a library, hospital, and incidental fee of \$10.00 a semester. Non-resident students pay an additional fee of \$10.00 a semester for tuition. Students who

enter after the first week of the first semester and after the first Tuesday of the second semester are required to pay a fee of \$5.00 for late registration.

Small laboratory fees are charged in certain laboratory courses.

Room and board in the dormitories for men costs from \$2.75 to \$3.25 a week, according to the room; in private families, from \$4.00 to \$6.00 a week; in Read Hall, the dormitory for women, about \$5.75 a week.

STATEMENT OF COURSES.

Courses for underclassmen are designated by numbers below 100; courses for upperclassmen and graduates, by numbers 100-199; courses primarily for graduates, by numbers 200-299. Those designated by a number with the letter **a** attached, thus: 100a, 200a, are given the first semester only. Those designated by the letter **b**, thus: 100b, 200b, are given the second semester only. Those designated merely by a number are continuous courses and are given both semesters. Arabic numerals in parentheses indicate the number of hours' credit a semester. For hours and days of classes, see the schedule of studies, which may be obtained from the Registrar after August 1.

GROUP I. CLASSICAL LANGUAGES.

CLASSICAL ARCHAEOLOGY, GREEK, LATIN.

CLASSICAL ARCHAEOLOGY.

- 2. **Classical Mythology.** (1).
- 106. **Greek Art.** (3)
- 107a. **Mycenaean Art or Art of Primitive Greece.** (1).
- 108b. **Introductory Study of Greek Vases and Vase Painting.** (1).
- 109. **Etruscan and Graeco-Roman Art.** (Prerequisite, course 106). (2).
- 110. **Roman Life.** (2).
- 214. **Topography and Monuments of Athens.** (2).
- 215. **Archaeological Seminary.**

GREEK.

- 1a and 1b. **Elementary Greek.** (5).
- 2. **Xenophon's Anabasis.** (3).
- 2b. **Same as first semester's work in course 2.** (3).

- 3a. **Xenophon's Memorabilia and Plato's Apology and Crito.** (3).
- 4b. **Homer's Odyssey.** (3)
- 105a. **Greek Tragedy.** (2).
- 108a. **Homeric Life.** (1).
- 109a. **Greek Mythology.** (2).
110. **Greek Life.** (2)
- 111b. **Greek Literature in English Translation.** (3).
- 112b. **New Testament Greek.** (2).
- 113a. **The Greek Theater.** (1).
- 114b. **Aristophanes.** (2) or (3).
216. **Hesiod and Homeric Hymns.** (2) or (3).
217. **Homer.** (2) or (3).
- 218a. **Historical Greek Grammar.** (3).
- 219b. **Historical Latin Grammar.** (3)
220. **Elementary Sanskrit.** (3).

LATIN.

- 1a and 1b. **Sallust.** (5).
2. **Latin Prose Composition.** (Elementary Course). (1).
- 3b. **Livy, Books XXI, XXII.** (Prerequisite, course 1).
6. **Horace.** (Prerequisites, courses 1 and 8b). (3).
- 8b. **Vergil's Aeneid.** (5).
- 12a and 12b. **Cicero and Ovid.** (5).
104. **Latin Prose Composition.** (Prerequisite, course 2). (1).
105. **Roman Public and Private Life.** (Prerequisites, courses 1 and 6). (3). (Not offered in 1913-14.)
106. (a) **Catullus, Tibullus and Propertius;** (b) **Juvenal and Persius.** (Prerequisites, 1 and 6). (3).
109. (a) **Terence and Plautus;** (b) **Lucretius.** (Prerequisites, courses 1 and 6). (3).
110. (a) **Tacitus, Annals;** (b) **Quintilian X, XII.** (Prerequisites, courses 1 and 6). (3).
111. **Rapid Reading and History of Roman Literature.** (Prerequisites, courses 1, 6 and 105 or the equivalent). (2).
217. **Seminary.** (3).
224. **Latin Metre.** (1). (Not offered in 1913-14).

GROUP II. MODERN LANGUAGES.**ENGLISH, GERMANIC LANGUAGES, ROMANCE LANGUAGES.****ENGLISH.**

- 1a and 1b. **English Composition and Rhetoric.** (3).
- Aa and Ab. **English Composition** (a more elementary course than English 1). (3).
2. **Introduction to the Study of Literature.** (2).
- Courses 1 and 2 are open to all Freshmen. Before enrolling in other courses, students must get the consent of the instructor.
3. **English Literature, General View.** First Semester: Chaucer to Shakespeare. Second Semester: Milton to the present. (3).
- 4a and 4b. **Supplementary Composition.** For students who have completed 1a or 1b. (3).
- 5a and 5b. **The Expository Theme.** (3).
- 6a and 6b. **Narration and Description.** (3).
26. **Public Speaking.** (2)
104. **The Romantic Movement.** (3).
105. **English Literature of the Eighteenth Century.** (3). (Alternates with 110. Not offered in 1913-14).
107. **Shakespeare.** Selected plays. (3).
108. **Shakespeare.** The formal elements. (2).
109. **Tennyson and Browning.** (3). (Alternates with 104, Not offered in 1913-14).
110. **American Literature.** (3).
111. **History of the English Language.** (3).
- 112a. **Anglo-Saxon Literature.** (3).
- 113b. **Middle English Literature.** (3).
114. **Modern Prose Writers.** (3).
117. **Recent and Current Literature.** (3).
- 118a. **English Versification.** (2).
119. **Theories of Poetry.** (2)
- 120a and 120b. **Advanced Composition.** (3).
- 127a. **The Argumentative Address.** (3).
- 116b. **Debating.** (Follows 127a). (3).
- 126b. **The Expository Address.** (2).

- 206b. **Style and Usage.** (3).
 215. **Beowulf.** (3).
 216. **Historical Grammar.** (3). (Not offered in 1913-14).
 219b. **Popular Ballads.** (2). (Not offered in 1913-14).
 220. **Literary Criticism.** (3).
 222. **The Rise of the Drama.** (3).
 223. **Elizabethan Drama.** (3). z
 224. **Seminary.** (Credit to be arranged.)

GERMANIC LANGUAGES.

- 1a and 1b. **Beginning Course in German.** (5).
 2a and 2b. **Course in German Reading, Syntax and Composition.**
 (Prerequisite, course 1). (5).
 3. **Advanced Reading Course.** (Prerequisite, courses 1 and 2).
 (3).
 4b. **Advanced Reading Course.** (3). This is a repetition of the
 first semester of Course 3.
 104a and 104b. **Masterpieces in Modern German Drama and
 Lyrics and Novels.** (3).
 105a. **Outline Course in German Literature.** (3).
 106b. **Lessing.** (3).
 107. **Schiller.** (3).
 108. **Goethe.** (3).
 109b. **Outline Course in Historical Grammar.** (3).
 110b. **Advanced Composition and Conversation.** (2).
 111b. **Middle High German.** (3).
 212. **German Literature of the Second Half of the 19th Cen-
 tury.** (3).
 213b. **Romanticism.** (3).
 214a. **The Reformation and Renaissance (1500-1750).** (3).
 215b. **Middle High German.** (3).
 216b. **History of the Nibelungenlied.** (3).
 217b. **Old High German.** (Prerequisites, course 220a). (3).
 218a. **Old Norse.** (Prerequisite, course 220a). (3).
 219b. **Old Saxon.** (A desirable prerequisite, course 220a). (2).
 220a. **Gothic.** (5).
 221. **Current Publications.** (1).
 222. **Seminary.** Subject to be determined.

ROMANCE LANGUAGES.**French.**

- 1a and 1b. **Elementary Course.** (5).
 2a and 2b. **Reading, Composition and Conversation.** (5).
 3. **Advanced French.** (Prerequisite, course 2). (3).
 3b. Course 3 complete in the second semester. (Prerequisite, course 2). (5).
 101. **General Phonetics.** (1).
 103. See course 3, the second semester of which is allowed to count in this group. (3).
 103b. See course 3b, three hours of credit for which may be counted in this group.
 104. **Composition and Conversation.** (2). Prerequisite, course 3).
 106. **French Literature.** (Prerequisite, course 3). (3).
 107. **The Literature of the Seventeenth Century.** (Prerequisite, course 3). (3).
 108. **The Literature of the Eighteenth Century.** (Prerequisite, course 3). (3).
 109a. **The Literature of the Nineteenth Century.** (Prerequisite, course 3). (3).
 110b. **The Literature of the Nineteenth Century.** (Prerequisite, course 3). (3).
 111. **The Language and Literature down to the Sixteenth Century.** (Prerequisite, course 106). (1).
 112. **The Literature of the Sixteenth Century.** (2).
 212. **Seminary in French Literature.** (2), (3), or (4).
 214. **General Introduction to Romance Philology.** (2).
 215. **Old French.** (Prerequisite, course 214). (2).
 216. **Seminary in Romance Philology.** (2).

Italian.

20. **Elementary Course.** (3).
 121. **Dante.** (3).
 122a. **Petrarch and Boccaccio.** (2).
 123b. **The Sixteenth Century.** (2).
Italian Philology. See courses 214 and 216.

Spanish.

- 30. **Elementary Course.** (3).
- 31. **Second Year Course.** (3)
- 132. **General Survey of Spanish Literature.** (2)
- 233. **Seminary in Spanish Literature.** (3).
- Spanish Philology.** See courses 214 and 216.

GROUP III. PHILOSOPHY AND EDUCATION.**EDUCATION, EXPERIMENTAL PSYCHOLOGY, PHILOSOPHY.****EDUCATION.**

- 1. **Methods and Aims of Study.** (1).
- 2a and 2b. **Educational Psychology.** (3).
- 110a. **Educational Psychology.** (Advanced course). (3).
- 111b. **Scientific Testing of Methods.** (Prerequisite, 110a or its equivalent.) (3).
- 112a. **The Abnormal Child.** (1)
- 113. **Current Problems.** (1).
- 120. **History of Education.** (2).
- 121a. **Educational Classics.** (3).
- 122b. **History of Education in the United States.** (2).
- 170b. **Principles of Education.** (3).
- 210. **Seminary in Educational Psychology.**
- 211. **Research Course in Educational Psychology.** Credit to be arranged.
- 220. **Seminary in the History of Education.**
- 270. **Seminary in the Philosophy of Education.**
- 271. **Philosophy of Education.** (3)

EXPERIMENTAL PSYCHOLOGY.

- 1a and 1b. **Introduction to Psychology.** (3).
- 2a and 2b. **Perception and Behavior.** (3).
- 103a or 103b. **Graphology.** (3).
- 104a or 104b. **General Esthetics.** (3).
- 105a or 105b. **Theory of Music.** (3).
- 107a or 107b. **Comparative Psychology.** (2).
- 108a or 108b. **Abnormal Psychology.** (2).

211a or 211b. **Psychological Seminary and Advanced Laboratory Work.** (Two, three or more hours credit.)

PHILOSOPHY.

- 1a or 1b. **Deductive Logic.** (2).
 2b. **Inductive Logic.** (2)
 103a. **Ethical Theory.** (3).
 104a. **History of Ancient and Medieval Philosophy from the Ionian Schools to Bacon.** (3).
 104b. **History of Modern Philosophy from the Renaissance to the 19th Century.** (3).
 105b. **Contemporary Tendencies in Metaphysics.** (3).
 109a. **English Thought in the Nineteenth Century.** (3).
 110a. **English Scientific Naturalism.** (3).
 112b. **American Ideals.** (3).
 224a. **Seminary: Pragmatism.** (2).
 225b. **Seminary: Fundamental Ethical Problems.** (2).

GROUP IV. HISTORY AND POLITICAL SCIENCE.

ECONOMICS, HISTORY, POLITICAL SCIENCE AND PUBLIC LAW, SOCIOLOGY.

ECONOMICS.

- 1a and 1b. **General Economics.** (5).
 105a and b. **Money, Credit, and Banking.** (3) or (5).
 106a or b. **Economics of Transportation.** (3).
 107a or b. **Economic History.** (5).
 108a or b. **Insurance.** (2).
 115a or b. **Public Revenues.** (Credit to be arranged.)
 117a. **Accounting.** (3) to (5).
 118a or b. **Trusts and Combinations.** (3) to (5).
 210a or 210b. **Problems of Labor.** (5).
 211. **Advanced Economic Theory.** (Credit to be arranged.)
 214. **History of Economics.** (Credit to be arranged.)
 212. **Seminaries.** (Credit to be arranged.)
 219. **Economic Factors in Civilization.** (2) to (5).
 232a or 232b. **Socialism.** (2) to (3).

HISTORY.

- 1a and 1b. **European History.** (5).
 5a and 5b. **Ancient History.** (5).
 2a and 2b. **English History.** (5).
 3a and 3b. **American History.** (5).
 100b. **Recent European History.** (5).
 120. **History of the Reformation.** (3).
 150a. **European Culture and Civilization—the Middle Ages.**
 (2) or (3).
 155b. **European Culture and Civilization—the Renaissance.** (2)
 or (3).
 110. **History of the United States.** (3).
 140a. **American Social History.** (3).
 170b. **History of Missouri.** (3).
 145a. **History of the West.** (2) or (3).
 175b. **History of the South.** (2) or (3).
 120b. **English Constitutional History.** (3).
 135a. **Oriental History (to 600 A. D.)** (3).
 135b. **Oriental History (600-1900).** (3).
 115b. **European Expansion in Asia.** (2).
 160. **Historiography and Historical Method.** (1) or (2).
 215a. **Rome and the East.** (2).
 220a. **Seminary in American Diplomatic History.** (3).
 230. **Seminary in American Political Government and History.**
 (2) or (3).
 250. **Seminary in Historical Research and Thesis Work.** (2),
 (3), or (4).

POLITICAL SCIENCE AND PUBLIC LAW.

1. **American Government.** (3).
 2b. **American Government.** (5).
 5a. **Contemporary International Politics.** (2).
 103b. **Elements of Jurisprudence.** (2).
 104a. **European Governments.** (3).
 105b. **Comparative Constitutional Law.** (3).
 106b. **Municipal Government.** (2).
 107. **Party Government.** (2).

- 201a. Colonial Government. (3).
- 204. Constitutional Law of the United States. (3).
- 209b. Law of Taxation. (2).
- 220. Seminar. (Credit to be arranged.)

SOCIOLOGY.

- 1a and 1b. Elementary Sociology. (5).
- 110a. Social Pathology. (3).
- 111b. Criminology. (3).
- 115a. Rural Sociology. (2)
- 112b. Preventive Philanthropy. (2).
- 1116b. Urban Sociology. (2).
- 125. Anthropology and Ethnology. (3).
- 220a. Principles of Sociology. (3).
- 221a. Biological Sociology. (2).
- 222b. Social Statistics. (2).
- 230a. History of Social Philosophy. (3).
- 231a. History of Philanthropy and the Poor Law. (2).
- 240. Seminary. (2), (3) or (4).

GROUP V. MATHEMATICAL AND PHYSICAL SCIENCES.

ASTRONOMY, CHEMISTRY, GEOLOGY AND MINERALOGY,
MATHEMATICS, PHYSICS.

ASTRONOMY.

- 1a and 1b. Descriptive Astronomy. (5).
- 2. Spherical and Practical Astronomy. (Prerequisite, Astronomy, 1a or 1b, Trigonometry, and General Physics). (3).
- 3a. Geodetic Astronomy. (Prerequisite, Trigonometry.) (4).
- 4a. Advanced Descriptive Astronomy. (Prerequisite, Astronomy 1a or 1b). (2).
- 105b. Modern Astronomy. (Prerequisites, Astronomy 1a or 1b, Elementary Physics). (3).
- 106. Advanced Astronomy. (Prerequisite, Astronomy 2; or in special cases, courses 4a and 105b.) (Credit to be arranged.)
- 107. Advanced Practical Astronomy. (Prerequisites, Astronomy 2, Calculus, General Physics.) (Credit to be arranged.)
- 108. Theoretical Astronomy. (Prerequisite, Astronomy 107.) (Credit to be arranged.)

209. **Astrophysics.** (Credit to be arranged.)

220. **Research.**

CHEMISTRY.

4a and 4b. **Elementary Inorganic Chemistry.** (5).

5a and 5b. **Organic Chemistry.** (Prerequisite, Elementary Inorganic Chemistry). (3).

6a and 6b. **General Inorganic Chemistry.** (Prerequisite, a year's work in chemistry in a high school). (5).

9a and 9b. **Inorganic Preparations.** (3).

25a and 25b. **Analytical Chemistry.** (Prerequisite, Elementary Inorganic Chemistry). (5).

27a and 27b. **Qualitative Analysis.** (Prerequisite, General Chemistry). (5).

56b. **Glass Working.** (1).

110a. and 110b. **Advanced Inorganic Chemistry.** (Prerequisites, Qualitative Analysis and Organic Chemistry). (3).

111. **Organic Chemistry.** (3).

112a and 112b. **Preparation of Organic Compounds.** (2) or (3).

113a and 113b. **Preparation of Organic Compounds and Organic Analysis.** (3), (4), or (5).

121. **Quantitative Chemical Analysis.** (Prerequisite, Qualitative Analysis 27a or 27b). (3).

122a. **Technical Analysis.** (Prerequisite, Quantitative Analysis 121). (3).

123b. **Technical Analysis.** (Prerequisite, Quantitative Analysis 121). (3).

125a. **Quantitative Organic Analysis.** (Must be preceded or accompanied by Quantitative Analysis 121). (3).

126b. **Quantitative Organic Analysis.** (3).

127. **Advanced Qualitative Analysis.** (Prerequisite, Qualitative Analysis 27a or 27b). (2).

131. **Physical Chemistry.** (Prerequisite, Organic Chemistry 111). (3), (4) or (5).

133. **Electro-chemistry.** (Prerequisites, Organic Chemistry 111; Physics 3). (3), (4) or (5).

135a or 135b. **.Radioactivity.** (Prerequisites, undergraduate courses in physics and chemistry). (3).

141a. **Industrial Chemistry.** (Prerequisites, Qualitative Analysis 27a or 27b, Organic Chemistry 111). (3).

142b. **Industrial Chemistry.** (Prerequisites, same as for 141a). (2) or (3).

151a or 151b. **History of Chemistry.** (Prerequisites, Organic Chemistry 111, and Physical Chemistry 131). (3).

200. **Chemistry of the Rare Earths.** (Prerequisite, Quantitative Analysis 121). (3).

211a and 211b. **Advanced Organic Chemistry.** (Prerequisite, Organic Chemistry 111). (2) or (3).

221. **Advanced Quantitative Analysis.** (Prerequisite, Quantitative Analysis 121). (Credit to be arranged.)

231. **Mathematical Chemistry.** (Prerequisite, Chemistry 131). (2).

271. **Research.**

GEOLOGY AND MINERALOGY.

1. **Elementary Geology.** (3).

1a and 1b. **Principles of Geology.** (5).

2a. **Geology of Soils.** (3).

3b. **Geology for Engineers.** (3).

4b. **Rocks and Rock Minerals.** (Prerequisite, 1, or 1a or 1b, or 2a, or 3b). (3).

6a. **Physiography of North America.** (5).

7b. **Physiography of Europe.** (5).

100a. **Economic Geology.** (Prerequisites, Elementary Geology and Elementary Chemistry). (3).

101a. **Economic Geology.** (Prerequisites, Elementary Chemistry and Elementary Geology). (3).

102b. **Advanced Physiography.** (Prerequisite, 1a or 1b, or 1, or 6a or 7b). (3-5).

103a. **Historical Geology.** (Prerequisites, 1, 1a or 1b.) (3).

104b. **Geologic Life Development.** (Prerequisites 1, or 1a, or 1b, and a course in Zoology). (3).

105 **Field Course.** (Prerequisite, 8 hours work in Geology with a grade of M or higher). (8). (Given in the Summer School).

106. **Petrology.** (Prerequisites, 4b, 5a, Inorganic Chemistry, and General Physics).. (5).

107a. **Field Geology.** (Prerequisite, 1, or 1a, or 1b). (3).

108a. **Mineralogy.** (Prerequisite, one of the courses below 4b). (5).

200a. **Principles of Ore Deposits.** (Prerequisites, 4b, 5a, 100a, 101b, Chemistry 6a, and General Physics.) (3) or (4).

202a. **Stratigraphic Geology.** (Prerequisites, 103a and 104b). (5).

203b. **Paleontology.** (Prerequisite, 104b). (5).

205. **Research.** (Credit to be arranged.)

MATHEMATICS.

7a or 7b. **Elementary Mathematics.** (5).

3a or 3b. **Trigonometry and Algebra.** (Prerequisite, one unit in Algebra for entrance, or course 7). (5).

4a or 4b. **Analytic Geometry.** (Prerequisite, course 3). (5).

1a or 1b. **Elementary Analysis.** (5).

5a or 5b. **Differential Calculus.** (Prerequisite, courses 3 and 4, or with special permission, course 1). (4) or (5).

6a or 6b. **Integral Calculus.** (Prerequisite, course 5, or, with special permission, 2). (4) or (5).

2a or 2b. **The Calculus.** (5).

8a or 8b. **General Mathematics.** (5).

100. **Second Course in Calculus.** (3).

110a and 115b. **The Historical Development of Mathematics.** (3).

120a and 125b. **Differential Equations and Their Applications.** (3).

160a or b. **Probabilities and Statistics.** (2).

200a or b. **Seminary.**

205a or b. **Modern Algebra.** (3).

210a or b. **Differential Geometry.** (3).

215a or b. **Projective Geometry.** (3).

220a or b. **Fourier's Series and Allied Series.** (3).

225a or b. **Potential Functions.** (3).

230. **Theory of Functions of Real Variables.** (3).

240. **Theory of Functions of Complex Variables.** (3).

260a or 260b. **Theory of Groups.** (3).

280a or 280b. **Calculus of Variations.** (3).

PHYSICS.

1a and 1b. **Elementary Physics.** (5).

2b. **Elementary Physics.** (6).

4a and 4b. **General Physics.** (Prerequisite, Trigonometry). (5).

3. **General Physics.** (Prerequisite, Trigonometry). (5).
 20. **General Laboratory Physics.** (1) or (2).
 18a. **Mechanics.** (Prerequisite, Trigonometry). (3).
 108. **Electricity and Light.** (Prerequisite, course 1 or 3). (1), (2), or (3).
 106. **Mechanics and Heat.** (1), (2), or (3).
 109. **Advanced Work in General Physics.** (2), (3) or (4).
 104a. **Electrical Measurements.** (Prerequisites, course 4 or 3 and Calculus). (5).
 110b. **Electricity and Magnetism.** (Prerequisite, course 4 or 3). (3).
 112a. **Heat.**
 112b. **Light.** (3).
 117b. **Spectroscopy.** (Prerequisite, course 4 or 3). (3).
 205. **Theory of Light.** (3)
 207. **Theory of Electricity and Magnetism.** (3).
 206. **Theory of Heat.** (3).
 215. **Dynamics.** (3).
 221b. **Electrical Waves.** (2).
 210. **Seminary.** (1).
 211. **Research Work.** (Credit to be arranged.)
 225. **Recent Developments in Experimental Physics.** (1)
 226. **Recent Developments in Theoretical Physics.** (2).

GROUP VI. BIOLOGICAL SCIENCES.

ANATOMY AND HISTOLOGY, BOTANY, PATHOLOGY AND
 BACTERIOLOGY, PHYSIOLOGY, PREVENTIVE
 MEDICINE, ZOOLOGY.

ANATOMY AND HISTOLOGY.

- 1a. **Elementary Anatomy.** (5).
 102. **Dissection.** (9).
 103. **Normal Histology.** (4).
 104b. **Neurology.** (3).
 105b. **Topographic Anatomy.** (2).
 206. **Advanced Anatomy, Histology or Embryology.** (Credit to be arranged.)
 207. **Research.**

BOTANY.

- 1a and 1b. **General Botany.** (5).
- 2a. **Morphology of Fungi.** (3).
- 3a and 3b. **General Bacteriology.** (4).
- 4b. **Seed Plants.** (3).
- 5a. **Algae and Bryophytes.** (2).
- 6b. **Taxonomy of the Pteridophytes.** (2).
- 9b. **Diseases of Plants.** (1).
- 100. **Plant Physiology.** (3).
- 102b. **Physiology of Fungi.** (3).
- 104a. **Histological Methods.** (2).
- 105. **Comparative Morphology and Embryology.** (3).
- 106a. **Principles of Plant Breeding.** (2).
- 200. **Seminar.** (1).
- 201. **Research.** (Credit and hours to be arranged).

PATHOLOGY AND BACTERIOLOGY.

- 102a. **Pathological Bacteriology.** (Prerequisite, Botany 3a or 3b). (4).
- 103b. **Pathology and Pathological Anatomy.** (8).
- 201. **Advanced Pathology.** (Prerequisite, courses 102a or 103b). (Credit to be arranged.)
- 202. **Research.** (Credit to be arranged.)
- 203. **Normal and Abnormal Neuro-cytology.** (Credit to be arranged.)

PHYSIOLOGY.

- 1b. **Elementary Physiology.** (5).
- 102a. **General Physiological Chemistry.** (4).
- 103a. **Experimental Physiology.** (6).
- 104b. **Advanced Physiological Chemistry.** (4).
- 105b. **Pharmacology.** (4).
- 107a or 107b. **Toxicology.** (Prerequisites 104b or 105b). (2) or (3).
- 208. **Journal Club.** (1).
- 209a. **The Pharmacology of the Circulatory System.** (3).
- 210. **Advanced Physiology.** (Credit to be arranged.)
- 211. **Investigation.** (Credit to be arranged.)

PREVENTIVE MEDICINE.

- 1a and 1b. Preventive Medicine. (2).
- 101b. General Hygiene. (3).

ZOOLOGY.

- 1a and 1b. General Zoology. (1).
- 2b. Theory of Evolution. (1).
- 3a. Mammalian Osteology. (1).
- 4. Comparative Anatomy of Vertebrates. (3).
- 5a. Zoology of Invertebrates. (5).
- 100b. Embryology of Vertebrates. (3).
- 101b. Comparative Embryology of Invertebrates. (3).
- 102b. Cytology. (3).
- 103a. Experimental Zoology. (3).
- 104a. Genetics and Evolution. (2).
- 200. Research.
- 201. Seminary.

ADDITIONAL SUBJECTS.**THEORY AND PRACTICE OF ART.**

- 1. Appreciation. (1).
- 1a and 2b. Introduction to Art. (5).
- 4. Construction. (3).
- 103. Theory of Design. (3).
- 105. Pictorial Composition. (2).
- 106. Painting. (3).
- 107. Tone. (3).
- 208. Seminary.

HISTORY OF ART.

- 1. History of Modern Painting. (2).
- 105. History of Modern Belgian, Modern Dutch and American Painting. (2).
- 111. History of Renaissance Painting. (3).
- 113. Masterpieces of Architecture, Sculpture, and Painting of Classical, Renaissance, and Modern Times. (1).
- 116. Seminary in the History of Art.

MUSIC.

3. **Harmony.** (3).
- 4a. **Applied Harmony.** (3).
- 4b. **Counterpoint.** (3).
5. **Canon and Fugue.** (3).
7. **Appreciation.** (2).
8. **University Chorus.** (1).

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