

BULLETIN
OF THE
UNIVERSITY OF MISSOURI

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GENERAL ANNOUNCEMENT.

History. The University of Missouri is the oldest state university west of the Mississippi river. Its legal existence dates from February 11, 1839, and its courses of instruction began April 14, 1841. Since that date it has been in continuous operation except for a few months during the Civil War.

Location. All Departments of the University (except the School of Mines, at Rolla) are located in Columbia, a beautiful city of 8,000 inhabitants, situated in the most picturesque part of Missouri, midway between St. Louis and Kansas City, and reached by the Wabash, and the Missouri, Kansas & Texas, railroads.

Resources and Equipment. The income of the whole University from all sources for the year 1905 was about \$510,000. There are thirty buildings, twenty-three occupied by the departments at Columbia and seven by the School of Mines, at Rolla. The buildings, grounds, books, and other equipment are valued at about \$2,000,000. In the libraries at Columbia, including the general and special libraries of the University and the collections of the State Historical Society, there are at present about 126,000 volumes and pamphlets. More than \$200,000 have been expended to improve the facilities for laboratory work in the last three years. There are Museums of Archaeology, Art, Zoology, Geology, and Agriculture, many laboratories of Science and Technology, rooms

for Drawing and Designing, and several Shops. At the School of Mines also there are several Laboratories, Drawing rooms, and Shops.

Faculties. The faculties contain 178 teachers and officers.

Expenses: Tuition is free in all departments. Students are required to pay for the use of the library, five dollars in all departments, except Law and Medicine, in which the charge is ten dollars. If a student takes a course requiring laboratory work, he must make a small deposit covering the cost of materials used. With economy, the total expenses of a student may be kept below \$200 for a session of nine months.

Enrollment. During the last session 2,072 students were enrolled. In addition to these, 89 were enrolled in the University Extension Centre at Kansas City, making a total of 2,161 students who received instruction. The number in attendance has been more than doubled since 21 October, 1901, when it first reached 1,000. Forty-five states and eighteen foreign countries were represented among our students last year.

Religious Influences. The Young Men's and the Young Women's Christian Association have each a zealous chapter in the University. Nearly four hundred students were engaged in Bible study last session under the leadership of these Associations. Almost all religious denominations are represented at Columbia by preachers and church edifices.

Athletics. A new \$70,000 gymnasium has just been constructed. Work in physical training and athletics is thoroughly organized. The students have teams for football, baseball, basket-ball, track athletics, and lawn tennis. There are excellent golf links, tracks, tennis courts, and several athletic fields.

Debating. Literary societies and debating clubs abound for training in writing, public speaking, and debating. Members of these organizations annually engage in debates with the representatives of other universities, and have won twelve of the twenty-two contests. The instruction in Elocution is admirable.

Admission. The equivalent of the work done in a good high school that maintains a four years' course is required for admission as a regular student to any undergraduate department, excepting Medicine, in which more is demanded (See p. 6) ; but any mature person may be enrolled as a "special student" and permitted to elect such studies as he is prepared for. Special students, however, cannot receive any degree until they have satisfied fully the requirements for entrance.

THE DEPARTMENTS.

The University of Missouri includes eight departments or colleges. These, in the order of their establishment, are as follows:

- 1839. Academic Department, or College of Liberal Arts.
- 1867. Missouri Teachers' College, founded as a Normal Department.
- 1870. College of Agriculture and Mechanic Arts:
 - (a) 1870, College of Agriculture,
 - (b) 1877, School of Engineering,
 - (c) 1888, Agricultural Experiment Station.
- 1870. Missouri School of Mines (at Rolla).
- 1872. Department of Law.
- 1873. Department of Medicine.
- 1890. Missouri State Military School.
- 1896. Graduate Department.

Academic Department. The Academic Department is a College of Liberal Arts in which instruction is offered in the following subjects: Anatomy and Histology, Astronomy, Botany, Chemistry, Classical Archaeology and the History of Art, Economics, Education, Elocution, English, Free-hand Drawing, Geology and Mineralogy, Germanic Languages, Greek, History, Latin, Mathematics, Philosophy, Experimental Psychology, Physical Training, Physics, Physiology, Political Science and Public Law, Romance Languages, Sociology, and Zoology. All the courses are elective; each student selects, within certain limitations, his own course.

The degree of Bachelor of Arts (A. B.) is the only undergraduate degree conferred by the Academic Department. In general it requires four years to complete the 120 hours required for this degree, although some students by doing work in the Summer Session considerably shorten the time.

**Missouri
Teachers
College.**

This Department is a college for the professional training of teachers. It offers a four years' course leading to the degree of Bachelor of Science (in Education), graduate courses leading to the degrees of Master of Arts and Doctor of Philosophy, as well as several special professional courses leading to various forms of teachers' certificates.

In the course leading to the Bachelor's degree, the work of the first two years is almost entirely academic and general in character, while in the last two years the work is about equally divided between the study of some special subjects which the student expects to teach and professional courses in History of Education, Theory and Practice of Teaching and the like, combined with practice teaching in the Training School. A professional course for one year is offered for the benefit of college graduates in the A. B. course who have not had opportunity to study educational problems or to secure practice in teaching under competent supervision. This course leads to a Life Certificate to teach in the public high schools of Missouri. A two years' course is also offered for the benefit of persons qualified to enter the Teachers College who wish to prepare themselves especially for teaching in elementary schools.

**College of
Agriculture.**

In the College of Agriculture thirty men devote their entire time to investigation and instruction. The equipment is quite complete. In addition to the buildings for Chemistry, Botany, Zoology, Physics, and other general subjects, the following buildings are used exclusively for technical instruction in agriculture; Agricultural Hall, Horticultural Hall, Dairy Hall, a Cattle Barn, a Live Stock and Veterinary Building, a Dairy Barn, Cattle Feeding Shed, Sheep Barn, and Carpenter and Blacksmithing Shops. The laboratories, located for the most part in the buildings just mentioned, comprise the following: laboratory for Testing Soils and Farm Crops, Live Stock judging room, Plant Propagating room, Entomological laboratory, Creamery room, Cheese room, Dairy Bacteriology room, laboratory for testing Dairy Products, laboratory of Veterinary Science, and laboratory of Agricultural Chemistry.

The subjects of instruction are Agronomy, Agricultural Chemistry, Agricultural Engineering, Animal Husbandry, Botany, Chemistry, English, Entomology, Geology, Horticulture, Meteorology, Physics, and Zoology. Five courses are offered:

1. A four-years college course in Agriculture ;
2. An eight weeks winter course in Agriculture (beginning the first week in January each year) ;
3. An eight weeks winter course in Animal Husbandry (beginning the first week in January each year) ;
4. An eight weeks winter course in Dairying (beginning the first week in January each year) ;
5. Summer courses in Agriculture and Horticulture, primarily for teachers.

Experiment Station. The special function of the Experiment Station is to conduct original research in the various branches of Agriculture. At this time investigations are in progress relating to the maintenance of soil fertility, the renovation of worn out soil, the most efficacious rotation of crops, the adaptability of new plants to Missouri's soil and climate, the most economical methods of beef and pork production, dairying and dairy feeding, animal diseases—their origin and prevention or cure—animal and plant breeding, the propagation, selection, breeding, and improvement of fruits and vegetables, tests of varieties of orchard and small fruits, insect pests, and fungous diseases.

The School of Engineering. At Columbia, the School of Engineering offers courses in Civil, Electrical, Mechanical, Chemical, and Sanitary Engineering. These courses are planned to give broad fundamental training, thorough instruction in studies common to Engineering courses, and special technical work in each of the respective branches.

The number of teachers has been materially increased, in answer to a great increase in enrollment.

Students have access to the General Library, besides which there is a good technical library and reading room in the Engineering building.

In addition to the laboratories of Physics and Chemistry, the Astronomical Observatory, the Shops, and Drawing Rooms, there are new and well equipped Engineering laboratories. For Civil Engineering there are numerous Surveying instruments and a Testing Laboratory for making standard tests upon materials. The Electrical Laboratories include instruments for electrical measurements of precision, numerous types and sizes of direct and alternating current

generators and motors, measuring instruments and accessories, apparatus for high voltage experiments, for standardization, etc. The Mechanical Laboratories contain steam, gas, and oil engines, pumps, injectors, air-compressors, fans, turbines, etc., together with apparatus for testing them and for standardizing instruments.

Law Department. Upon the reorganization of the law Department in 1903, and the extension of the course to three years, the system of original investigation, known as the "Case Method," was introduced. It has been found to be highly satisfactory. Under this method, instead of using an ordinary text-book as the basis of instruction, the student is sent directly to the original sources of the law and is taught by systematic study and comparison of the decided cases to deduce and formulate for himself the various rules involved, and to discover the underlying principle or conception upon which they are based, and in this way to determine their true scope and limitations. In addition to the instructional value of such investigation, the student has the advantage of constant practice in applying methods of legal reasoning to the solution of the same concrete problems with which he will have to deal as a practicing attorney.

The course of instruction leading to the degree of Bachelor of Laws covers three years of nine months each.

Medical Department. The regular course offered by the Medical Department requires four years for its completion. The first two years are spent in laboratory work in the fundamental sciences upon which the clinical work is based. These sciences include Physics, Chemistry, Zoology, Anatomy, Histology, Physiology, Physiological Chemistry, Pharmacology, Bacteriology, and Pathology. In the third year the student is introduced into clinical work by means of lectures, clinics, and work in the clinical laboratories of Medicine and Surgery. In the fourth year the entire time of the student is given to clinical lectures and demonstrations, ward visits, and dispensary work. The Medical Laboratories are lodged in four buildings including the new Medical Laboratory, recently completed at a cost of \$40,000. The Parker Memorial Hospital and Busch Clinical Amphitheatre are very near to the Medical Building. This Hospital is owned and controlled by the University for teaching purposes. It has a capacity of 42 beds. The

wards are open at all times for bedside instruction of the third and fourth year students, who, for this purpose are divided into small groups of from one to four persons.

For admission to the Medical Department, in addition to the usual approved High School course, one year's college work is required. By taking an additional year's work in the Academic Department, the student may complete the combined course, securing the A. B. degree at the end of the fourth, and the M. D., at the end of the sixth, year.

**Missouri
State Military
School.**

Instruction in Military Tactics is given by a regular army officer detailed by the Federal Government. The cadets are appointed by the Senators and Representatives of the General Assembly of Missouri. All appointments are for a term of two years. Cadets are matriculated in the Academic Department and in the College of Agriculture and Mechanic Arts, free from tuition and other fees. Moreover, each of them is furnished with a good substantial uniform.

**Graduate
Department.**

Graduate instruction is offered in the Academic Department, Teachers College, School of Agriculture, and School of Engineering. The graduate work of the Academic Department is under the direction and control of the Graduate Conference of that Department. The graduate work of the other Departments is under the direction of their respective Faculties.

Since the organization of the Graduate Department in 1896, this University has been devoting particular attention to the development of its graduate work. The enlargement of the Faculty and the extensive additions which have been made to the libraries and laboratories have made it possible to offer a wide range of research and other graduate courses.

The courses of study open to graduate students and other information may be found in the "Announcement of the Graduate Department."

For this "Announcement" and for further information respecting the graduate work of the Academic Department address the Chairman of the Graduate Conference; for other departments address the respective Deans.

**School of
Mines and
Metallurgy,
Rolla, Missouri.**

The Missouri School of Mines and Metallurgy provides instruction in four regular courses leading to degrees, and in several special courses. The regular courses, each extending through four years, are as follows:

Mining Engineering,
Civil Engineering,
Chemistry and Metallurgy,
General Science.

The first is a general course in Mining Engineering, having in view all the operations in mining from the prospecting for the ore to the delivery of the finished product on the market. The second is a course in Engineering as applied especially to railways, highways, and municipal work. The third contemplates especially processes in Mining and Metallurgy, subsequent to the delivery of the ore above ground. It fits a man for positions in concentrating plants and smelters and various branches of Industrial Chemistry. Certain options are offered according as the candidate may wish to specialize in the direction of Metallurgy or of Analytical Chemistry. The fourth course is largely elective and provides for a liberal education in general Science.

In addition to the four regular courses leading to degrees as described above, a number of shorter courses also are offered. They are: Chemistry and Assaying, Mining, Surveying, and Electricity. They have been planned for the benefit of those who for various legitimate reasons are unable to take the regular four-years courses.

For further information address "Director, School of Mines, Rolla, Missouri."

Conclusion. Entrance examinations at Columbia are held 10, 11, 12 September, and all departments open 11 September. At Rolla entrance examinations are held 15 and 17 September and instruction begins 18 September. A catalogue of the entire University, or special bulletins of the various departments, may be had by addressing Merrill Otis, University Publisher, Columbia, Missouri. For particulars concerning any department, address the Dean of that Department. All communications concerning credits for entrance should be sent to the Committee on Entrance, Columbia, Missouri.

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