

BULLETIN OF THE UNIVERSITY OF MISSOURI

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COLLEGE OF AGRICULTURE.

Historical Statement.

The Legislative Act establishing the University was approved 11 February, 1839. The University was located at Columbia, now a beautiful city of 7,000 inhabitants, midway between St. Louis and Kansas City, on the Wabash Railroad and also on the Missouri, Kansas & Texas. The College of Agriculture and Mechanic Arts was founded at Columbia in 1870 and in the same year the School of Mines and Metallurgy, a Department of the University, at Rolla, Missouri. The Experiment Station was established at Columbia in 1888.

Resources.

Our buildings, grounds, books, and other equipment, are valued at more than \$1,600,000, not including the campus, or the grounds for Botany, Horticulture, and Agriculture. The endowment (interest at 5 or 6 per cent) is \$1,236,000. The income from the United States Government (Hatch and Morrill Acts) is about \$38,150 a year. Moreover, the Legislature makes appropriations biennially. There is some income from fees for the libraries and laboratories. There are 47,427 acres of unsold land. A State Collateral Inheritance Tax gives us about \$120,000 a year. The income of the whole University, from all sources and for all departments, has been for some time from \$400,000 to \$430,000 a year.

Expenses. Free Tuition.

Tuition is free in all Departments—Graduate Department, College of Agriculture, Engineering, Academic, Teachers College, Law, Medicine, School of Mines. In all these Departments, except Law and Medicine, the only charges are a library fee of \$5 a year and small laboratory deposits covering cost of materials used by the students. The Library fee is \$10 for Law, and for Medicine \$10 a year, with small laboratory deposits.

The expenses for room, board, books and fees vary. For agricultural students who board in our club houses, these expenses need not exceed \$150, nor more than \$200 a year for those who board in private families. The fees in some colleges and universities will bear all expenses here.

Buildings. Agricultural Hall, Dairy Laboratory, Live Stock Laboratory, Agricultural Barns, Chemical Laboratory, Laboratory of Geology and Zoology, Laboratory of Horticulture Entomology and Botany, Greenhouse, Mechanic Arts Hall, Engineering Hall, Engineering Laboratory, Power house, Observatory, Academic Hall, Law building, Medical Laboratory, Hospital, three Dormitories, President's house. We expect this summer to lay the foundation of a new Gymnasium. Moreover, our School of Mines has seven buildings.

Faculties. Our Faculties contain, all told, more than 120 teachers.

Enrollment. Twenty-two men give their time to teaching and investigations in Agronomy, Agricultural Chemistry, Animal Husbandry, Veterinary Surgery, Dairy Husbandry, Horticulture, Entomology, Botany, Shopwork, and Drawing. Our students come from almost every county in Missouri. Fifty-three states, territories, and foreign countries were represented in the session of 1903-1904 by 1649 students.

Libraries. We have a library for general readers and several department libraries for advanced students. These libraries contain nearly 65,000 bound volumes and 30,000 pamphlets. Moreover the collections of the State Historical Society, 23,000 entries, in Academic Hall, are accessible to our students. The library is rich in publications pertaining to Agronomy, Agricultural Chemistry, Dairying, Veterinary Science, Horticulture, Entomology, and Botany.

Laboratories and Museums. There are at Columbia museums of Agriculture, Horticulture, and their products, of Geology, Zoology, Art, and Archaeology, many laboratories of science and technology, seven rooms for drawing and designing, and several shops. The School of Mines has several laboratories and drawing rooms and shops. Of the \$252,000 expended for new buildings in 1902, \$154,000 went for laboratory buildings. Nearly \$60,000 more were spent for their better equipment. Thus we spent about \$214,000 that year in better facilities for our laboratory work, and other sums in 1903. There are good laboratories for Agronomy, Agricultural Chemistry, Live Stock Judging, Animal Breeding, Veterinary Science, Dairying, Horticulture, Entomology, and Botany. The shops for Mechanic Arts are admirable. Instruction in Agronomy and Animal Husbandry is made efficient by the Experiment Station fields, the breeds of improved live stock, and the cattle feeding experiments. The students in Horticulture have the advantage of orchard plantings covering more than 30 acres of ground. The College Farm, comprising 615 acres, is used chiefly for instruction and for agricultural experiments. Here are the herds, the Barns, the Dairy Laboratory, the Live Stock Laboratory, and the work in Veterinary Science.

Requirements for Entrance. A good high school education, or its full equivalent, and evidence of good moral character are demanded for admission. Those who cannot present diplomas from accredited secondary schools will be examined by the professors of our Academic Department. Applications for admission should be addressed to "The Committee on Entrance, University of Missouri, Columbia, Missouri." For the short winter courses the only requirements are good character and a common school education.

Religious Influences. Almost all denominations are represented at Columbia, which is notable for the excellence of its churches. The University has a zealous chapter of the Young Men's Christian Association and one of the Young Women's Christian Association. There is a students'

prayer meeting every week. Prayers by officers of the University also are held daily. Attendance upon religious exercises is voluntary. An astonishing number of students attend Bible classes.

Debates and Athletic Sports. Our students have teams for football, baseball, basket ball, track athletics, and lawn tennis. There is a Gymnasium for men and another for women. The Athletic Fields and Golf Links are excellent. Much success has attended our contestants in inter-collegiate debates. Our students have a flourishing Agricultural Club, which has formed a Corngrowers' Association, and they have also a Botanical Society, which works chiefly in applied botany and horticulture. Our students edit and publish "The Missouri Agricultural College Farmer," an excellent paper.

Women Admitted. All Departments are open to women. A suite of rooms in Academic Hall, beautifully furnished, strictly private, and in charge of a Matron, is reserved for their special use. Read Hall, the new Dormitory for women is in charge of Miss Lewis, the Adviser of Women.

Opportunities in Missouri. Missouri contains 69,415 square miles, nearly 3,000 more than New England. The population is 3,106,665. While the development of its resources has scarcely begun, Missouri is the fifth State in the Union in population, in wealth, and in agriculture, and the seventh in manufactures. For mining it is justly famous. It is a land of opportunity for enterprising young men. The best introduction to any State is through its University. The demand for graduates of our College of Agriculture is far greater than the supply.

COLLEGE OF AGRICULTURE.

Agronomy. Special attention is given to the study of soils, their origin, formation, distribution, and the relations thereof to fertility. The improvement of soils, methods of crop production, the selection of seed, plant breeding, the cultivation, harvesting, and disposition of crops, are thoroughly considered. The course is supplemented by experiments and demonstrations on the Farm and the Experiment Station Grounds.

Animal Husbandry. Thorough courses in stock breeding and in the history and development of breeds are given during the Sophomore year, and in the Junior year a course in Feeds and Feeding. Specimens of leading breeds of live stock are maintained for purposes of study. Important additions to the college herds have been made during the past year. Experiments in Feeding and Breeding are continually in progress. Much attention is given to the judging of animals for the selection of the best types.

Veterinary Science. Veterinary Science here deals chiefly with the hygienic treatment of farm animals and the prevention of diseases such as cholera, blackleg, glanders, tuberculosis, Texas fever, etc. In the Veterinary Clinics, students perform simple surgical operations.

Dairying.

A thorough course is given in the handling of milk and butter and in the feeding and care of dairy cows. In the laboratory the milk is tested, and the cream is separated, ripened, and made into butter, always under the careful supervision of the Professor. The making of cheese receives special attention.

Horticulture.

The Horticultural Department has well-equipped laboratories and large experimental orchards, which make possible good instruction in commercial and farm orcharding. The best methods of planting, cultivating, and pruning trees, and of marketing fruits are taught. Landscape gardening, the beautifying of home grounds, and Floriculture are prescribed subjects in the Agricultural course.

Entomology.

Sufficient knowledge of systematic Entomology is given to prepare the student for identification of ordinary injurious insects. The insects which cause damage to farm and garden crops, and methods of combating their ravages receive special attention.

Mechanic Arts.

Agricultural students get instruction in Carpentry and Blacksmithing in well-equipped shops, and this training is a valuable feature of the course.

Experiment Station.

The investigations of our Experiment Station have already saved the farmers of Missouri vast sums of money. The results of investigations, published in bulletins, are sent free to all citizens of Missouri that ask for them.

Short Winter Courses.

Many persons already engaged in Agricultural pursuits desire a better preparation for their work, but they do not feel justified in spending four years to get this training. For such, we offer short courses in Animal Husbandry, Plant Production, Dairying, and Horticulture. These courses begin about the first of January and continue eight weeks. The instruction is extremely practical and gives, in the time, the largest possible amount of technical instruction. The enrollment in these courses increased 66 per cent in 1904.

Agriculture in Public Schools.

A number of teachers get instruction here in Agriculture and Horticulture every summer. At least 5,000 children in Missouri are learning this year these subjects because of the instruction given to teachers here. Our Teachers College, thoroughly re-organized, will work with the College of Agriculture to introduce these studies into the public schools. In this endeavor this University has led the State and perhaps the Union.

Catalogue.

If this circular interests you, write for a catalogue of the whole University, or of the College of Agriculture, to the Registrar, "Mr. Irvin Switzler, Columbia, Missouri." Persons thinking seriously of entering the University and wishing to see plates of its buildings, should write for them. If possible, see our great exhibit in the Education Building at the World's Fair at St. Louis.

For further information, address the Acting Dean,

F. B. MUMFORD,
Columbia, Mo.

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