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THE UNIVERSITY OF MISSOURI BULLETIN



1949
COLLEGE of AGRICULTURE
Announcements

Best to Start at the University of Missouri

Students who are planning to graduate from the University of Missouri College of Agriculture should plan to enter as freshmen, if at all possible. Often the transfer of credits results in loss of time and difficulty in schedules. There is almost always a loss of honor points as advanced standing is valued as of M grade except that no points are given for advanced standing of lower than M grade. Hence grades of E and S transfer as M grade.

Many transfer students in the College of Agriculture have commented that they would have avoided many problems in arranging courses and would have had a more satisfactory program of study had they started at the University of Missouri.

Advice on Courses

If you do plan to attend some other college before enrolling in the University of Missouri College of Agriculture, it is suggested that you write to the Dean's Office, College of Agriculture, Mumford Hall, Columbia, Missouri, for advice on courses. Decide which degree you want upon graduation and then make sure that all of your courses will count as credit toward that degree. Chairmen of the various departments will welcome the opportunity of hearing from you if you prefer to write to them for advice or about specific courses in their department.

Announcement of the

College of Agriculture
of the
University of Missouri
1949-50



THE UNIVERSITY OF MISSOURI BULLETIN

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APRIL 10, 1949

University Calendar, 1949-50

(For the division at Columbia)

1949

First Semester

- September 15 Thursday, Convocation for Freshmen, 8:30 a.m., Attendance required.
- September 15-17 Thursday-Saturday, Orientation and Freshmen Registration Period.
- September 19-20 Monday-Tuesday, Registration for Sophomores, Upperclassmen, Graduate Students, 8-12 a.m., 1-5 p.m.
- September 21 Wednesday, Classwork Begins, 7:30 a.m.
- November 17 Thursday, Honors Convocation, 4:30 p.m.
- November 23 Wednesday, Thanksgiving Holidays Begin, 12:30 p.m.
- November 28 Monday, Classwork Resumed, 7:30 a.m.
- December 21 Wednesday, Christmas Vacation Begins, 12:30 p.m.

1950

- January 4 Wednesday, Classwork Resumed, 12:30 p.m.
- January 24 Tuesday, Examinations Begin, 7:30 a.m.
- February 1 Wednesday, First Semester Closes, 5:30 p.m.
- February 1 Wednesday, Mid-Year Commencement, 7:30 p.m.

Second Semester

- February 4 Saturday, Orientation Day for Entering Freshmen, 8:30 a.m., Attendance Required.
- February 6 Monday, Registration.
- February 7 Tuesday, Classwork Begins, 7:30 a.m.
- April 6 Thursday, Spring Recess Begins, 12:30 p.m.
- April 10 Monday, Classwork Resumed, 12:30 p.m.
- May 29 Monday, Examinations Begin, 7:30 a.m.
- June 4 Sunday, Baccalaureate Address, 7:00 p.m.
- June 6 Tuesday, Second Semester Closes, 5:30 p.m.
- June 9 Friday, Annual Commencement, 10:00 a.m.

Summer Session

- June 12 Monday, Registration.
- June 13 Tuesday, Classwork Begins.
- July 4 Tuesday, Independence Day, Holiday.
- August 4 Friday, Eight Weeks' Summer Session Closes, 4:30 p.m. Summer Commencement, 7:30 p.m.
- September 1 Friday, Summer Session in Law Closes, 4:30 p.m.

The College of Agriculture

ANNOUNCEMENT, 1949-50

The University of Missouri College of Agriculture offers courses of study in all phases of agriculture, home economics, forestry, and veterinary science usually practiced in this area. The degrees Bachelor of Science in Agriculture, Bachelor of Science in Home Economics, Bachelor of Science in Forestry, Doctor of Veterinary Medicine, and Bachelor of Science in Agriculture (in Agricultural Journalism) are awarded upon the satisfactory completion of the prescribed curricula. In addition, graduate curricula which lead to the degrees of Master of Arts and Doctor of Philosophy are offered in these fields.

Specific courses of study are suggested for training in the following fields:

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Students who can not devote the four or more years required for the complete programs in above fields of work will find arrangements of courses in most of these subjects requiring two years or even less. A certificate is awarded for the satisfactory completion of two-year courses of study.

Staff

University of Missouri

College of Agriculture

Administration

Frederick Arnold Middlebush, Ph.D., LL.D., President

Leslie Cowan, B.S. in C.E., Vice-President in charge of Business Operations

Thomas Allan Brady, Ph.D., Vice-President in charge of Extra-Divisional Educational Activities

John H. Longwell, Ph.D., Dean of the College of Agriculture; Director of the Agricultural Experiment Station

Merritt Finley Miller, M.S.A., D.Sc., Dean Emeritus of the Faculty of the College of Agriculture

Samuel Bryan Shirky, A.M., Associate Dean of the College of Agriculture; Associate Director of the Agricultural Experiment Station

Thomas E. Doak, Ph.D., Assistant Dean of the College of Agriculture; Assistant Director of the Agricultural Experiment Station

James Willard Burch, A.M., Director of Agricultural Extension Service

Robert R. Thomasson, B. S., Assistant Director of Agricultural Extension Service

James Edgar Crosby, Jr., A.M., Assistant Director of Agricultural Extension Service

Ralph Parker, Ph.D., Librarian

S. Woodson Canada, A.B., Registrar

Charles W. McLane, Ph.D., Director of Admissions

Arthur Allan Jeffrey, A.B., Agricultural Editor

Ovid U. Bay, B.S., Assistant Agricultural Editor

Homer J. L'Hote, M.A., Supervisor Photo Service and Fertilizer Inspection

Darwin Alexander Hindman, Ph.D., Director of Student Affairs for Men

Thelma Mills, A.M., Director of Student Affairs for Women

R. B. Price, LL.B., Treasurer

Opportunities for Graduates of the COLLEGE of AGRICULTURE

Attending the University of Missouri College of Agriculture is an investment in your future. You are your own employer and will, yourself, receive dividends the rest of your life from the training and knowledge acquired in the College of Agriculture.

In addition to opportunities on farms, opportunities for graduates of the College of Agriculture are on every hand. Inquiries from the commercial field come across the Dean's desk every week seeking men as salesmen, fieldmen, chemists, foremen and managers for fertilizer works, feed companies, creamery companies, poultry plants, grain elevators, packing houses, and milling companies. Industrial departments of railroads, farm machinery supply houses, elevators, farmers' exchanges, cooperative organizations, and real estate companies require men trained in agriculture.

The state agricultural experiment stations, the United States Department of Agriculture, and commercial and industrial firms dealing in agricultural products and supplies require trained scientists in their research laboratories.

Private and governmental institutions engaged in farm loan and other financial activities are using many agriculturally trained graduates.

A limited number of men will find employment with newspapers, magazines, and advertising and radio broadcasting agencies.

Opportunities On The Farm

Ownership of land, the production of high quality livestock, and living in the healthful and wholesome environment encountered on the farm, offers satisfaction to many graduates of the College of Agriculture. Probably your own community has graduates of the College of Agriculture who are now prominent farmers and home-makers. Their rewards are more than monetary—they have prestige, friends, and neighbors!

These graduates of the College of Agriculture have the "know how" to plan crop and farm management systems; maintain or improve the fertility of their land; to produce livestock efficiently; to organize community enterprises; while providing a livelihood for their families. They are truly applying the knowledge provided by the University

as it has always been intended—for the betterment of the soil and the people who live on the land.

The agricultural college student has the opportunity to receive training in the application of modern methods which are constantly changing and which are indispensable to profitable farming. Training at the University of Missouri College of Agriculture will broaden the student's perspective and increase his capacity to deal effectively with farm problems.

Teaching and Extension Work

Thousands of students in Missouri high schools are studying vocational agriculture. Their instructors have been trained as teachers of vocational agriculture through the provisions of the Smith-Hughes Act of Congress. *The University of Missouri College of Agriculture is the only approved school in the state for the training of these teachers.* A special course of study is provided for this purpose.

College teaching of agriculture and related sciences also offers good opportunities to those who are well trained. Usually graduate degrees are required for this work.

Throughout every state in the nation county agricultural agents, agricultural extension specialists, and other agricultural workers are effectively disseminating information on the latest and best methods and practices made available by agricultural experiment stations. To be qualified for this type of work men must have an adequate farm background and good training in an agricultural college.

Home Economics

Since most girls marry, education for homemaking is one of the chief functions of training in home economics. Home Economics training prepares girls for either a home or a professional career. Many women trained in home economics are employed in home demonstration work and in the commercial field. Any one interested in a Home Economics degree should write for the Home Economics Announcement.

Forestry

The Department of Forestry of the University of Missouri College of Agriculture offers full professional training in forestry which leads to the degree, Bachelor of Science in Forestry, upon completion of the four-year forestry curriculum. This training prepares young men for technical and administrative positions in various types of forestry work. Any one interested in a Forestry degree should write for the Forestry Announcement.

Four Year Veterinary Curriculum

Curricula F and F-1 are designed to provide a thorough education in veterinary medicine, enabling students to follow any of the various phases of the veterinary profession. To obtain the degree Doctor of Veterinary Medicine (DVM), a student must pursue and complete a six-year course of study, two years of pre-veterinary education and four years of a designated veterinary curriculum. The Veterinary Announcement will be sent to any one who requests a copy.

The College of Agriculture

The College of Agriculture is more than a school for technical training—it offers a broad educational background with specific training in agricultural methods based on fundamental training in science.

The University of Missouri is the only Land Grant College in the State of Missouri. The College of Agriculture, a division of the University, is fortunate in that the Missouri Agricultural Experiment Station and Agricultural Extension Service have been made integral parts of the organization. Thus, students have opportunity of being associated closely with the research and extension programs for the State.

The College of Agriculture, a division of the University of Missouri, is located at Columbia, in Boone County, approximately in the center of the State of Missouri.

The University farms include a number of different units totaling over 2000 acres of land. All of the 2000 acres is within a short distance of Columbia and is available for students' use. A substantial part of this acreage is in pasture, but there is ample cultivated land for instructional and investigational work. The University also owns several tracts of forest land in the Ozarks which are available for use in instructional and experimental work.

In addition to extensive farm operations, there are many large barns, greenhouses, orchards, and other laboratories maintained for research and class instruction. Recently, 7900 acres were acquired near Weldon Spring for use by the Experiment Station and the College of Agriculture.



The Departments

The teaching staff is the heart of any institution. The University of Missouri College of Agriculture is very, very fortunate in this respect—many Missourians are aware of the esteem with which the staff of the University of Missouri College of Agriculture is held over the nation.

The prominent positions held in the agricultural field, the commercial field, government agencies, and in this and other agricultural colleges by graduates of the University of Missouri College of Agriculture are a direct reflection of the high caliber of the training given. *Opportunities are unlimited for the student who applies himself*—look at the records!

AGRICULTURAL CHEMISTRY

Dr. A. G. Hogan, chairman of the department, and his staff have received recognition for the research this department has done over the years in vitamins and in swine nutritional work.

The Department of Agricultural Chemistry analyzes each year over 1000 samples of fertilizers, which are collected as part of the fertilizer control project. Approximately 3000 samples of limestone are analyzed, in order to maintain the quality of the agricultural limestone used in Missouri. In addition a large number of analyses, of a wide variety of materials, are made as part of the investigations of this and other departments of the University.

The research program of this department is largely limited to fundamental problems of nutrition, which require laboratory equipment. A vitamin assay laboratory, chemical laboratories, and animal rooms are available for these studies.

STAFF

Albert Garland Hogan, Ph.D., Chairman, Professor
Leonard Dixon Haigh, Ph.D., (retired), Associate Professor
Dennis Thomas Mayer, Ph.D., Associate Professor
Charles W. Gehrke, Ph.D., Associate Professor
Eugene Woodville Cowan, A.M., Assistant Professor
Merle E. Muhrer, Ph.D., Assistant Professor
Boyd Lee O'Dell, Ph.D., Assistant Professor
Edward E. Pickett, Ph.D., Assistant Professor
Laura Mary Flynn, M.S., Assistant Professor
Victor B. Williams, A.M., Instructor
James R. Whitely, A.M., Assistant Instructor
William B. House, B.S., Research Assistant
Jacquelyne C. Hearne, B.S. in Ed., Research Assistant

AGRICULTURAL ECONOMICS

The Agricultural Economics Department is under the supervision of professor O. R. Johnson, who with his staff, assembles and digests all information that will likely affect a farmer's income and costs. This information is used in the preparation of the Outlook which has a mailing list of 6500 and for Outlook meetings which are held over the state. The department also uses information from Washington, various markets, and collects information direct from the farmers.

STAFF

Oliver Ray Johnson, A.M., Chairman, Professor
John R. Paulling, A.M., Professor
Benjamin H. Frame, A.M., Associate Professor
Wade R. McMillan, A.M., Instructor
Henry J. Meenen, A.M., Instructor
James W. McKinsey, B.S., Instructor
Erwin T. Hadorn, A.M., Instructor
David H. Pinson, M.S., Instructor
Elmer R. Kiehl, B.S., Instructor
Buel Lampher, A.M., Instructor
Lyle Fitzgerald, A.M., Instructor
Charles E. French, A.M., Research Assistant

AGRICULTURAL ENGINEERING

The Agricultural Engineering Department, headed by Professor Mack M. Jones, has a modern farm shop with about 3200 square feet of floor space and is equipped with benches, vises, hand tools, and small tools, such as drills and grinders, for teaching repair and maintenance of farm equipment. A new welding shop which has 1800 square feet of space is equipped with eighteen individual electric welding booths, each with its own farm-type electric welder and accessories. There are also seven individual oxy-acetylene welding stations, and five modern machine lathes.

The farm power and machinery laboratory occupies 9400 square feet of floor space. There are twenty-five tractor and stationary farm engines, and five farm electric power plants, especially mounted for laboratory study, testing, adjustment and operation. The department owns several modern tractors as well as other modern power farm machinery. This equipment is available for laboratory work along with many thousands of dollars worth of new tractors and machines on short-time loan from dealers and distributors.

In addition, the department operates a 24-acre field laboratory near Columbia where experimentation is conducted with power machinery. Adequate survey equipment is available for farm water management study and research and the department erected the new Climatic Laboratory which was necessary for the project initiated by the U. S. Department of Agriculture, the Dairy Department, the U. S. Navy (Medical Sciences), and the Agricultural Engineering Department.

STAFF

Mack M. Jones, M.S., Chairman, Professor
John Cochran Wooley, M.S. in A. E., Professor
Kenneth B. Huff, A.M., Professor
Robert P. Beasley, A.M., Assistant Professor
George W. Steinbrugge, B.S. in A.E., M.S., Assistant Professor
Cecil L. Day, M.S. in A.E., Assistant Professor
James S. McKibben, B.S. in Agr., Instructor
Donald B. Brooker, B.S. in A.E., Instructor
Harold J. Thompson, M.S., Research Associate
Robert M. McCroskey, B.S., Research Assistant
Robert P. Stewart, B.S. in A.E., Research Assistant
Robert B. Sonderman, Graduate Assistant
Fred Steffen, Assistant
Jesse H. Johnson, Technician

Students receive practical experience in judging livestock.



ANIMAL HUSBANDRY

This department has had and has some of the best known men in the livestock industry. Deans F. B. Mumford and E. A. Trowbridge each served as chairmen for this department and Professor L. A. Weaver, well known livestock judge, is the present head of the department.

The Department of Animal Husbandry maintains herds and flocks representing most of the leading breeds of livestock. The livestock includes 30 head of Belgian, Percheron, and American Saddle horses; more than 100 head of purebred beef cattle representing the Shorthorn, Aberdeen-Angus, and Hereford breeds; about 150 purebred sheep of the Shropshire, Hampshire, Southdown, Dorset Horn, and Rambouillet breeds; and 70 mature sows and their offspring representing the Duroc, Hampshire, and Poland China breeds.

In addition to the livestock for teaching purposes, there are a number of feeding, breeding, production, and marketing experiments in progress which are partly conducted by students. These include pasture experiments with both cattle and hogs. More recently extensive projects in food processing and storage have been initiated.

STAFF

Luther Abraham Weaver, B.S. in Agr., Chairman, Professor
Daniel E. Brady, Ph.D., Professor
James E. Comfort, A.M., Associate Professor
Gordon Edwin Dickerson, Ph.D., Associate Professor
Albert J. Dyer, A.M., Associate Professor
John M. Kays, A.M., Instructor
Hudson H. Kibler, B.S. in E., Instructor
Clifford D. Squires, A.M., Instructor
Clarence V. Ross, A.M., Instructor
Richard J. Deters, B.S. in Agr., Instructor
Donald R. Warner, B.S. in Agr., Assistant Instructor
Gerald C. Anderson, A.M., Assistant Instructor
Edward R. Hauser, M.S., Assistant Instructor
Clarence M. Bradley, B.S. in Agr., Assistant Instructor
Louisa N. Tucker, B.S., Assistant Instructor
Ralph Kampschmidt, B.S. in Agr., Research Assistant
Zane Palmer, A.M., Research Assistant
Keith E. Gregory, M.S., Research Assistant
Carl Emerson, B.S. in Agr., Graduate Assistant
Hugh D. Naumann, B.S. in Agr., Graduate Assistant
William Donaldson, Beef Cattle Herdsman
John Singleton, Foreman, South Farms
Thomas Sontag, Foreman, Animal Husbandry Farms

DAIRY HUSBANDRY

Research, resident, and extension teaching conducted by the Department of Dairy Husbandry at the University of Missouri College of Agriculture has been influencing factors in the rapid expansion of the dairy industry in the state and the development of improved breeding. Professor A. C. Ragsdale is chairman of the department.

Dairying is a major enterprise in Missouri. The state now ranks 7th in dairy products manufactured, using a whole milk equivalent of 3,348,626,000 pounds, with an additional 553,573,000 pounds skim milk equivalent for by-products. In number of dairy cows the state ranks 9th with 941,000 head. In creamery butter manufactured, Missouri ranks 4th, in cheddar cheese 4th, in condensed and evaporated milk 6th, and in ice cream 10th. The largest dairy plant in the world, handling nearly a million pounds of milk daily, is in Missouri.

The University dairy herd consists of more than 200 head of Holsteins, Jerseys, and Guernseys. Complete herd records are kept and official herd testing and type classification provide information on production and type. Besides the dairy herd, the department operates in Eckles Hall a modern milk products plant, including the latest equipment for processing whole milk, manufacture of principal dairy products, and refrigeration methods as an aid to research and as an essential part of the teaching and demonstration equipment.

Extensive investigations related to growth and milk production, dairy cattle breeding programs, artificial insemination, milk secretion, bacteriology of milk and its products, market milk and milk control, and the manufacturing of dairy products are continuous. The processes involved in the manufacture of dairy products, plant organiza-

ECKLES HALL, housing the Dairy Department, contains modern equipment for extensive research in Dairy Husbandry.



tion, and merchandising methods constitute an important part of a student's education.

Two new and expensive instruments have been added to the laboratory. The Beckman Spectrophotometer D.U. Model is used in the analysis of pure substances, chemical mixtures, biological extracts and biological materials. The Tiselius Electrophoresis Apparatus, not found in many colleges, is used in the analysis of protein to determine individually the quantity of various proteins. The new Climatic Laboratory is pioneering in studies on the influence of climatic factors on productivity and physiological reactions of farm animals.

STAFF

Arthur Chester Ragsdale, M.S., Chairman, Professor
Harry A. Herman, Ph.D., Professor
William H. E. Reid, M.S., Professor
Samuel Brody, Ph.D., Professor
Charles W. Turner, Ph.D., Professor
Joseph E. Edmondson, A.M., Assistant Professor
James H. Gholson, A.M., Instructor
Hudson H. Kibler, B.S. in E., Instructor
Odie T. Stallcup, A.M., Instructor
James W. Cobble, A.M., Assistant Instructor
Robert A. Monroe, A.M., Assistant Instructor
Kenneth L. Tallman, A.M., Assistant Instructor
Justus H. Edmondson, A.M., Graduate Assistant
Robert C. Laben, M.S., Graduate Assistant
Charles P. Merilan, A. M., Graduate Assistant
Donald B. Roark, M.S., Graduate Assistant
M. E. Dickensheet, B.S., Graduate Assistant
Glen R. Pursley, B.S., Graduate Assistant
Howard J. Weeth, B.S., Graduate Assistant
Clifton Blincoe, A.M., Research Assistant
Calvin B. Agee, B.S., Research Assistant
Donald B. Anderson, B.S., Research Assistant
Robert J. Basnett, B.S., Research Assistant
Harry Ball, Dairy Herdsman

ENTOMOLOGY

Dr. Leonard Haseman, chairman of the Entomology Department, and his associates have conducted much research with DDT and the sulfa drugs. They discovered the value of sulfathiazole for the control of American Foul Brood in honey bees. The department maintains 15 colonies of bees for classroom and experimental work and has a greenhouse for insect study and experimentation.

The department's insect collection numbers 600 cases or approximately 200,000 specimens! In addition, a tractor, power sprayers, and other spraying and dusting equipment for experimental work is owned and operated by the department.

STAFF

Leonard Haseman, Ph.D., Chairman, Professor
Harry Eugene Brown, A.M., Assistant Professor
Arthur Lee Jenkins, M.S., Assistant Professor
Philip Carlton Stone, Ph.D., Assistant Professor
Curtis W. Wingo, A.M., Assistant Professor
Wilbur R. Enns, A.M., Instructor
Roland W. Portman, A.M., Instructor
George W. Thomas, B.S., Assistant Instructor
Howard Griep, A.M., Graduate Assistant
Virgil H. Owens, B.S., Research Assistant

FIELD CROPS

Dr. W. C. Etheridge, chairman of the Field Crops Department, and his staff have contributed much to Missouri agriculture—lespedeza, the new S-100 variety of soybean and the 0-200 variety of oats are among the recent contributions. The department operates jointly with soils department, an experimental field of 220 acres on the University South Farms. The department also conducts experiments at outlying fields located at Sikeston, Elsberry, Pierce City, and Lathrop.

Equipment on the University campus includes laboratories and four greenhouses where extensive studies in genetics and plant breeding are carried on continuously. In addition to the land owned by the department, other tracts are leased for experimental work and hundreds of cooperative tests conducted by farmers over the state are used in testing seeds.

Research in genetics and plant breeding by the department is one of the most advanced programs found in that field in the United States. The Seed Improvement Program employs laboratory seed testing, field inspection, and seed certification. This is a state-wide project and the seed growers involved have a total annual sales volume of over a \$1,000,000 a year. The Seed Testing Laboratory tests thousands of seed samples every year for growers and seed producers.

STAFF

William Carlyle Etheridge, Ph.D., Chairman, Professor
Charles Alton Helm, A.M., Professor
Lewis John Stadler, Ph.D., Professor
E. Marion Brown, Ph.D., Professor

John Milton Poehlman, Ph.D., Associate Professor
Joe D. Baldrige, Ph.D., Assistant Professor
Kenneth Cloninger, B.S. in Agr., Instructor
William L. Giles, B.S. in Agr., M.S., Assistant Instructor
W. P. Sappenfield, B.S. in Agr., Assistant Instructor
Lloyd E. Cavanah, B.S. in Agr., Assistant Instructor
W. R. Langford, B.S. in Agr., Assistant Instructor
Hale Fletchell, B. S. in Agr., Assistant Instructor
Joseph O'Mara, Ph.D., Research Associate
Ernest R. Sears, Ph.D., Research Associate
Darnell M. Whitt, A.M., Research Associate
Carl V. Feaster, Ph.D., Research Associate
Marcus S. Zuber, Ph.D., Research Associate
Viola Stanway, A.M., Seed Analyst

FORESTRY

The Department of Forestry of the University of Missouri College of Agriculture prepares young men for technical and administrative positions in various types of forestry work. Dr. R. H. Westveld is chairman of the department.

Students in forestry have access to 17,000 acres of forest land. The University Forest of 9,000 acres in Butler County is equipped with a comfortable dormitory to accommodate students when they take the 12 weeks summer camp at the end of their sophomore year. The 2,000-acre Ashland Wildlife Area is only 20 miles from Columbia and provides facilities for studies in dendrology, silvics and silviculture. There are 6,000 acres of timber land in the Weldon Springs area under the supervision of the Forestry Department.

The U. S. Forest Service has established headquarters in Columbia for the North Ozark Forest Research Center. The Forestry Department works in close cooperation with the U. S. Forest Service and the Division of Forestry of the Missouri Conservation Commission.

STAFF

Ruthford Henry Westveld, Ph.D., Chairman, Professor
Kenneth Charles Compton, M.S., Assistant Professor
Richard Chandler Smith, M.F. (on leave), Assistant Professor
Paul Burns, M.F., Assistant Professor
Robert E. McDermott, M.S., Instructor
J. M. Nichols, B.S., Instructor
Peter W. Fletcher, M.F., Instructor
Richard W. Dingle, M.F., Instructor
Franklin G. Liming, Ph.D., Research Associate
S. Clark Martin, M.S., Research Associate

HOME ECONOMICS

Dr. Starley M. Hunter, who has had extensive work in home economics is the new head of the Home Economics Department.

The Department offers courses in all areas of Home Economics training. Students may specialize in a professional field, such as merchandising, dietetics, or commercial foods. Training is given for teaching, extension, and research; and, a general course in preparation for homemaking is offered.

Technical courses, seminars, and research programs are offered for students working toward advanced degrees.

Laboratories for nutrition, clothing, furnishings, related art, management, and child care are equipped to meet the needs of the students. Research laboratories provide working space for graduate

GWYNN HALL contains the classrooms, laboratories, and offices of the department of Home Economics.



students. The nutrition research laboratories are fully equipped to carry on research in micro-biological and fluorometrical assays of the vitamin content of foods and other types of research in food and nutrition. A fademeter, textile strength machine, and other equipment is available for textile research.

In keeping with the demand for home economics training, five new courses in food, management, and family relationship have been added and the training staff has been enlarged. The Home Economics Department and staff is working in cooperation with the Animal Husbandry Department on the new extensive food processing and food storage research project at the University of Missouri.

STAFF

Starley M. Hunter, Ph.D., Chairman, Professor
Adella E. Ginter, M.S., Associate Professor
Marita Monroe, M.S., Associate Professor
Margaret W. Mangel, M. S., Associate Professor
Adelia E. Weis, Ph.D., Assistant Professor
Lillian E. Brehm, A.M., Assistant Professor
Sarah Neblett, A.M., Assistant Professor
Fern E. Staggs, A.M., Assistant Professor
Leta G. Maharg, M.S., Assistant Professor
Martha Richardson, M.S., Instructor
Merna Fisher, M. A., Instructor
Joyce E. Elwell, M.S., Instructor
Mary L. Allen, A.B. in Educ., Instructor
June Marie Essen, R.N., Instructor
Helen R. Marshall, M.S., Instructor
Marion E. Midforth, M.S., Instructor
Dorothy Lewis, M.S., Instructor
Louise Nunnelley, M.S., Instructor
Deloris Young, M.S., Instructor
Grace V. Hoover, M.S., Research Assistant
Marybelle L. Sapp, B.S., Research Assistant

HORTICULTURE

Professor T. J. Talbert is chairman of the department. The horticulture laboratories include five separate greenhouse units making a total of 12,000 square feet under glass; a laboratory for propagation of plants, including storage facilities for cuttings, bulbs, rootstocks, and storage bins for soil and fertilizers; equipment for soil sterilization; hot bed units; cold frames; special spray laboratory for study of spray machinery; a packing shed, and a fruit packing laboratory.

The department is operating a 160-acre fruit and vegetable tract, Midway Orchards, nine miles west of Columbia and another 80-acre fruit farm six miles southwest of Columbia.

Outlying horticulture experiment fields are located at Monett, Barry county; Campbell, Dunklin county; St. Joseph, Buchanan county; and Independence, Jackson county. Experimentation with peaches, watermelons, cantaloupes, tomatoes, potatoes, apples, strawberries, and other horticultural crops is carried on continuously at these horticulture fields.

Landscape gardening and floriculture are divisions of horticulture. A four year course in landscape nursery work has been established and ten courses in landscape gardening are offered to students.

Floriculture work includes classes in flower production and other phases of the floral industry. The flower judging team is selected from students in floriculture. Approximately 2500 square feet of greenhouse space is devoted to floriculture.

STAFF

Thomas Jesse Talbert, A.M., Chairman, Professor
Andrew Edward Murneek, Ph.D., Professor
Raymond A. Schroeder, Ph.D., Professor
Aubrey D. Hibbard, Ph.D., Associate Professor
Harold G. Swartwout, A.M., Associate Professor
James Elmo Smith, Jr., M.S.A., Assistant Professor
Delbert D. Hemphill, Ph.D., Assistant Professor
Victor N. Lambeth, A.M., Instructor
Willard S. Summers, A.M., Instructor
John Schatz, B.S., Graduate Assistant
Stanley McLane, B.S., Research Assistant
Daniel B. Meador, B.S., Research Assistant
Everett E. McBain, Greenhouse and Nursery Foreman
Ernest E. Roberts, Orchard Superintendent
Robert E. Lee, Foreman, Midway Orchards
Cecil Grant, Foreman, Turner Station Fruit Farm

POULTRY

Professor H. L. Kempster, who designed the Missouri Poultry House, is chairman of the department. The Poultry Department operates two tracts of land, 12 acres adjacent to the campus which has been occupied for a number of years, and a new 80-acre farm nearby in the country.

At present there is housing capacity for 2200 to 2500 adult hens representing White Leghorns, White and Barred Rocks, New Hampshires, and Rhode Island Reds. A breeding flock of Bronze and Beltsville White turkeys is maintained. New incubators included in the department's equipment have a capacity for 30,000 eggs.

The new laboratory building for teaching and laboratory work is 76 x 150 feet and the new Poultry Breeding House is 20 x 126 feet. This building has 40 breeding pens and will be used for extensive breeding research.

There is ample equipment for students to study incubation, sanitation, production and management of poultry. A special course also is conducted by this department to train veteran students in poultry and hatchery management.

STAFF

Harry Laverne Kempster, M.S., Chairman, Professor
Ernest Marvin Funk, A.M., Professor
Quinton B. Kinder, A.M., Assistant Professor
Harold V. Biellier, B.S., in Agr., Instructor
James F. Forward, M.A., Instructor
Jimmie E. Savage, A.M. in Agr., Research Assistant
W. J. Krueger, M.A. in Agr., Research Assistant
Claude P. Howard, Poultry Farm Foreman

RURAL SOCIOLOGY

The University of Missouri College of Agriculture Rural Sociology Department is headed by Dr. C. E. Lively. The department conducts experiment station research in relation to family living, rural welfare, especially health and education, and the standard of living of Missouri's rural population.

This department also receives and interprets agricultural and family living data from Washington and other sources.

STAFF

Charles Elson Lively, Ph.D., Chairman, Professor
Robert L. McNamara, Ph.D., Professor
Herbert F. Lionberger, M.E., Assistant Professor
Lawrence M. Hepple, Ph.D., Assistant Professor
Charles M. Coughenour, A.B., Instructor
Cecil L. Gregory, A.M., Instructor
John B. Mitchell, M.A., Instructor

SOILS

Dr. W. A. Albrecht, well known authority on soils and nutrition, is chairman of the University of Missouri College of Agriculture Soils Department.

The Department of Soils operates the sixty year old Sanborn Field, extensive acreage on the University South Farms, outlying experiment fields in various parts of the state, and cooperative demonstrations with farmers. All of these serve to test new hypotheses and demonstrate the basic principles of managing the soil wisely for crop production.

Well-equipped soil laboratories for teaching and research, and other special equipment like the electron microscope and spectroscope are part of helps available on the campus for learning more about soil origin, its development, and its service to the plant root as the starting point of agricultural production. These are part of the tools in the hands of a well-trained staff for research in soils and for passing results of research on to the students under instruction in this department.

STAFF

William Albert Albrecht, Ph.D., Chairman, Professor

Henry H. Krusekopf, A.M., Professor

Charles Edmund Marshall, Ph.D., Professor

Ellis Ray Graham, Ph.D., Associate Professor

Eugene O. McLean, Ph.D., Assistant Professor

Clarence M. Woodruff, A.M., Instructor

Newcomb C. Smith, A.M., Instructor

Elsworth Springer, A.M., Instructor

H. A. Henley, B.S., Assistant Instructor

Alvin H. Beavers, A.M., Graduate Assistant

Donald D. Brown, A.M., Graduate Assistant

Richard A. Hawkins, B.S., Graduate Assistant

Fred E. Koehler, B.S., Graduate Assistant

Victor L. Sheldon, A.M., Graduate Assistant

Dwight D. Smith, A.M., Research Associate

William D. Shrader, A.M., Research Associate

William G. Blue, A.M., Research Assistant

Joe A. Frieze, B.S., Research Assistant

Clarence L. Scrivner, B.S., Research Assistant

Albert T. Fulkerson, Farm Foreman

VETERINARY SCIENCE

The University of Missouri College of Agriculture now has facilities and staff in the Veterinary Science Department to grant the degree Doctor of Veterinary Medicine (DVM). Dr. A. J. Durant is chairman of the department. To obtain this degree, a student must complete a six year course of study—two years of pre-veterinary education and four years of the veterinary curriculum.

A new Veterinary Clinic with 20,000 square feet of floor space has been completed. Clinical service is open to the public and the building contains 16 box stalls and 10 tie stalls for large animals, plus 30 cages for small animals. It also has a lecture room seating over 250 persons, several classrooms, office space and a surgery and examination room.

STAFF

Adrian J. Durant, A.M., D.V.M., Chairman, Professor

Cecil Elder, M.S., D.V.M., Professor

Harold C. McDougale, A.M., D.V.M., Professor

Donald E. Rodabaugh, D.V.M., Associate Professor

Arthur Adam Case, M.S., D.V.M., Associate Professor

Andrew W. Uren, D.V.M., Associate Professor

Otto S. Crisler, D.V.M., Assistant Professor

Harry Berrier, D.V.M., Assistant Professor

Donald V. Benson, D.V.M., Assistant Professor

Herbert W. Howell, D.V.M., Assistant Professor

Robert Moody, D.V.M., Assistant Professor

Mildred Allen, Technician

Ernest E. Burgess, Technician

Mary E. Thomas, Technician

Paul Maxwell, Feeder and Caretaker

Luther Sullins, Foreman, Veterinary Research Farm

In addition to the staff listed there are many teachers in other divisions of the University who give instruction to students in the College of Agriculture. Courses in English, Chemistry, Botany, Zoology, Physics, Geology, American History, American Government, Psychology, Art, Journalism, Engineering, Education, and Mathematics are required in some or all of the curricula of the College of Agriculture. Students in agriculture are fortunate in having excellent teachers available in so many fields.

Student Activities

The College of Agriculture recognizes that a part of each student's training should be the development of cooperation and powers of administration and self-government. Students organizations have been encouraged when they do not interfere with college duties. Students in the College of Agriculture participate not only in the general student affairs of the University of Missouri, but also in activities of their own.

Every student is urged to affiliate himself with some organization or some movement in which students exercise their capacity to conduct important and complicated enterprises without the directing influence of the officers of the College. During wartime conditions, many of these activities were discontinued. Now widespread reorganization with increasing enrollment has brought back these activities.

All students in the College of Agriculture are eligible for

WINNING LIVESTOCK JUDGING TEAM at the 1948 American Royal. From left to right: John Hall, Mound City; Logan Heathman, Paris; Marie Cervinka, Columbia; Albert J. Dyer, coach; Melvin Bradley, Eldon; and Arthur Ewing, Morrisville.



membership in the Agricultural Club, known as the "Ag Club." This organization has promoted loyalty to the College and has worked for the good of all students. It is worthy of the active support of every student.

The Missouri College Farmer, the official student magazine of the College of Agriculture, is published monthly during the college year. Its management is entirely in the hands of students and it gives interested staff members an opportunity to gain practical experience in magazine work. The editors, business managers, and circulation managers are elected from the staff by the Ag Club.

In the spring, the students hold Farmers' Fair, an event that calls for considerable ability in organization and ingenuity. Some of the features are for entertainment and others for education. The fall event, also sponsored by the Ag Club, is Barnwarmin'. Many alumni return for this all-college dance and festival. Each year the students in the College of Agriculture hold a banquet at which time those who have represented the College in various intercollegiate agriculture contests, or who have rendered outstanding service to the Agricultural Club are honored.

Many departmental organizations share the attention of students interested in particular fields. These include the Block and Bridle Club, Horticultural Club, Agricultural Education Club, Entomology Club, student branch of American Society of Agricultural Engineers, and the Missouri Chapter of American Dairy Science Association, the American Society of Agronomy, the Forestry Club, the Home Economics Club, and the Veterinary Science Club.

Students in the College of Agriculture are eligible to try out for and compete on any of the University of Missouri athletic teams and debating teams. They may also participate in the University band, the Missouri Workshop productions, and other general University student activities.

Teams representing the University of Missouri College of Agriculture are entered annually in the principal intercollegiate judging contests held in connection with many major agricultural expositions, fairs, and shows. This competition with students from other state colleges of agriculture is regarded as highly educational, broadening, and decidedly worth while.

Rated high on the list of worthwhile student activities are the honor societies. Gamma Sigma Delta, the honor society of agriculture, is a graduate honorary group including in its membership faculty, alumni, graduate students, and seniors within one term of graduation. Membership in this organization is limited to men of high scholarship, capacity for original research, and leadership in

modern agriculture. Alpha Zeta, an honorary group for undergraduate students, is limited to students of only the highest scholarship who display ability for leadership. Ruf Nex, an honorary leadership organization, maintains the high spirit and progressive element of the Ag Club and its many college activities.

Courses of Study

The object of the instruction in the College of Agriculture is to train men and women for success in the vocation of agriculture. Courses of study are offered which prepare students as farmers, farm managers, fruit growers, dairymen, poultrymen, stockmen, foresters, and veterinarians. Training also is given for teachers in agriculture colleges, for investigators in agricultural experiment stations, for extension workers in agriculture and home economics, for teachers of vocational agriculture in high schools, for service in the United States Department of Agriculture, and for the many businesses directly or indirectly related to agriculture. Several curricula are offered to fit the needs of these different groups. They are described in the following pages.

Admission

All communications regarding entrance should be addressed to the Director of Admissions, University of Missouri, Columbia, Missouri, who has charge of all matters relating to admission to any division of the University. A complete statement regarding entrance requirements is in the general catalog. Briefly, 15 units of high school credit are required. Three units must be in English, one in Mathematics, one in Social Science and one in Natural Science.

In addition, students may be admitted to the University of Missouri College of Agriculture by:

- a. Examination in the form of college aptitude tests in four basic fields if the student is at least 18 years of age. The tests are given by the Registrar.
- b. By examination on the basis of the general educational development tests, plus the subject matter tests of the U. S. Armed Forces Institute. These tests can be taken only from the U. S. A. F. I.
- c. If over 21 years of age students may be admitted to those courses for which they are qualified as special students without examination.

Normal Enrollment

The normal enrollment in any one semester may not exceed six-

teen hours, excluding the required courses in military science and physical education. However, in the case of superior students an increased enrollment may be permitted upon recommendation of the adviser and approval of the Dean. Courses are offered throughout the year in two full semesters and an eight weeks summer session.

Grades and Credits

Students who in any semester fall behind in more than 38 per cent of the hours in which they are registered at the end of that semester, or who fall more than eight hours behind the total number of hours for which they have been registered up to that time, are subject to elimination from the College. The cumulative (8-hour) rule does not apply to work taken during the first semester of the freshman year, but the application of the 38 per cent rule in the case of such students shall be at the discretion of the Dean. Students who have been dropped under these rules may be permitted to return after one semester.

If, after once having been subject to elimination, a student falls an additional five hours behind the total hours for which he has been enrolled he will be subject to permanent elimination from the University.

Point System

Candidates for degrees must complete the same number of points as the number of hours required for the respective degrees. The basis for evaluating points for residence work is as follows: Three points for each hour of E grade; two points for S grade; one point for M grade and no points for I or F grades.

Advanced Standing

Advanced standing shall be valued as of M grade except that no points will be given for advanced standing of lower than M grade. Students who are planning to graduate from the University of Missouri College of Agriculture should plan to enter as freshmen if at all possible. Often the transfer of credits results in loss of time and difficulty in schedules. In no event will transfer students be given any advantage whatsoever over students who complete all their work in the College of Agriculture. No responsibility can be assumed by this institution for adjustments of credits to the requirements of its curricula. No student will be graduated until *all requirements* for the degree concerned have been met. The application of advanced standing to curricula and the acceptability of courses for specific requirements will be determined by the Dean's Office. Changes in curricula may be made at any time without notice and all students entering after the date of change will be held to all new requirements.

Definition of Agricultural Subjects

Agricultural subjects include all courses now offered in the departments of Agricultural Economics, Agricultural Engineering, Agricultural Chemistry, Animal Husbandry, Dairy Husbandry, Entomology, Field Crops, Horticulture, Forestry 350 only, Poultry Husbandry, Rural Sociology, Soils, and Veterinary Science, excluding the professional courses for training Doctors of Veterinary Medicine. In addition, Botany 203, 301 and 306; and Zoology 5, 6, 9, 305, 309, 415, and 416 will be accepted.

Definition of Home Economics Subjects

Home Economics subjects include all subjects offered by the Department of Home Economics.

Women Students

Women students who are candidates for degrees in agriculture may count home economics subjects toward the total of 60 hours of agriculture normally required. They may make the following substitutions: Home Economics 131, Chemistry of Food and Its Utilization, for Animal Husbandry 201, Principles of Animal Nutrition; and Physiology 201, Elements of Physiology, for Veterinary Science 1, General Veterinary Science in Curriculum A.

Specialized Training

Students who desire specialized training in pure or applied science, or in some technical phase of agriculture may replace not to exceed twelve hours of the 60 hours of required agricultural courses with other subjects. Such substitutions can be made only on recommendation of the adviser and approval of the Dean in writing *in advance* of the completion of the course or courses involved.

Required Courses in Military Science and Physical Education

Military Science or Naval Science is required of all men students during their first four semesters. Physical Education is required of all students during their first four semesters. Veterans who have completed six or more months in service will be granted advanced standing for basic Military and basic Physical Education and, therefore, are not required to take additional military or physical education in the University.

Requirement in Mathematics 2, Elementary Mathematics

This course is required of all students in the College of Agriculture regardless of high school or college courses that may have been completed. However, students who believe themselves capable in elementary mathematics will be excused from this course if they satisfactorily complete an examination. Arrangements for the examination are made at the Dean's Office.

Requirement in American History or Government

All students must satisfactorily complete the course in History 20, American History, 5 hours; or the course in Political Science 1, American Government, 5 hours, before any degree from the College of Agriculture will be awarded.

Approval of Adviser

A student must have the certification of his or her adviser that he or she has completed the subjects which qualify for work in the field of agriculture or home economics which has been selected for his or her objective.

Application for a Degree

Candidates for degrees must make formal application in the Dean's Office for the degree which they intend to receive at least three months before the requirements for such degree are to be completed. Blank forms are provided for this purpose.

Curricula of the College of Agriculture

The College of Agriculture offers courses of study leading to the degrees Bachelor of Science in Agriculture, Bachelor of Science in Home Economics, Bachelor of Science in Forestry, and Doctor of Veterinary Medicine.

A. Curriculum in General Agriculture

This course of study leads to the degree Bachelor of Science in Agriculture. It offers training for those students who are planning to enter the business of farming in any of its varied forms. Those who are planning to enter any of the various phases of business more or less directly connected with agriculture will find this course of study adapted to their needs. It provides a well-rounded course of study. Ample opportunity is given for limited specialization to meet the needs of individual students.

Curriculum A

Requirements for the degree, Bachelor of Science in Agriculture:

1. A total of one hundred twenty-eight hours is required.
2. A total of one hundred twenty-eight points is required.
3. A total of sixty hours in agricultural subjects is required.
4. A minimum of 60 hours in residence exclusive of the required courses in military science and physical education. These 60 hours in residence must include a minimum of three hours in residence in each of the following agricultural departments: Agricultural Economics, Agricultural Engineering, Agricultural Chemistry, Soils, Animal Husbandry, Dairy Husbandry, Entomology, Field

Crops, Rural Sociology, Horticulture, Poultry Husbandry, and Veterinary Science.

5. There are specific courses required as listed below:

<i>Non-Agricultural requirements:</i>		<i>Hours</i>
English 1 and 2, Composition and Rhetoric		6
Mathematics 2, Elementary Mathematics		3
Chemistry 1, General Chemistry		5
Botany 1, General Botany }		5
or		
Zoology 1, General Zoology }		5
Chemistry 15, Organic Chemistry		3
Botany 202, Bacteriology		3
Geology 2, Physical Geology		3
Physics 1 or Mathematics		5
Political Science 1, American Government }		5
or		
History 20, American History }		5
Physical Education		4
Military		4
Total		46
<i>Required Agricultural Courses:</i>		<i>Hours</i>
Agricultural Economics 1		3
Agricultural Engineering 1		3
Animal Husbandry 1		3
Dairy Husbandry		3
Entomology 1		3
Field Crops 1		3
Horticulture 1		3
Poultry 1		3
Rural Sociology 75		3
Veterinary Science 1		3
Soils 25		5
Agricultural Chemistry 210		5
Animal Husbandry 201 (Nutrition)		3
Field Crops 100 (Management)		2
Animal Husbandry 202 (Breeding), Horticulture 315 or Field Crops 301		3
Agricultural Electives		12
Total		60

6. An additional 22 hours must be completed to make the total of 128 hours required for the degree. These 22 hours may be in agricultural subjects or any other subjects offered in the University.

A-1. Curriculum in General Agriculture

Curriculum A-1 is designed to provide broader opportunity for specialization than Curriculum A. Under this curriculum it is possible to plan special courses of study in the various phases of agriculture and its related industries. Under the direction of, and subject to the approval of an adviser, individual courses of study may be planned.

The requirements are as follows:

1. A total of one hundred twenty-eight hours and a total of one hundred twenty-eight points are required, including:
 - (a) At least sixty hours of agriculture, all of which is elective.
 - (b) At least fifty hours in subjects other than agriculture.
 - (c) Eighteen hours of electives that can be in either (a) or (b) above.
2. At least sixty hours of the above one hundred twenty-eight must be completed in residence, forty-eight hours of which must be in agriculture.
3. In the above groups the following subjects must be included:

	<i>Hours</i>
Military Science	4
Physical Education	4
English 1 and 2—Composition and Rhetoric	6
Chemistry 1—General Inorganic Chemistry	5
Botany 1—General Botany } or Zoology 1—General Zoology }	5
Economics and Business 51—General Economics or Agricultural Economics 1—Agricultural Economics and Agricultural Economics 50—Advanced Agricultural Economics }	5
Political Science 1—American Government } or History 20—American History }	5
Mathematics 2—Elementary Mathematics	3
Total in science and mathematics	25
(Subjects in the departments of Geology, Mathematics, Physics, Chemistry, Botany, Zoology, and Agricultural Chemistry.*)	

4. Advisers for students in this curriculum are appointed by the Dean's Office after consultation with the student.
5. All registration programs and changes in courses must be approved by the adviser and the adviser must certify at the close of the entire curriculum that the student has completed courses that train him reasonably well for his objective.

Suggested Programs of Study Under Curriculum A-1

The following are suggested arrangements of courses for students who plan to specialize in these particular phases of agriculture. *They are not required*, but merely are suggested outlines that may be varied to meet individual needs within the limits prescribed in the preceding general requirements.

*Courses in Agricultural Chemistry will count toward the totals for either Agriculture or science, but not for both.

AGRICULTURE AND RELIGION

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
3 Religion	2	2 Mathematics	3
Fundamental Moral and Religious Values		Elementary Mathematics	
1 Animal Husbandry	3	1 Field Crops	3
Animal Husbandry		Field Crops	
1 Agricultural Engineering	3	21 Religion	3
Farm Power and Machinery I		The Early History of Israel	
1 Poultry Husbandry	3	1 Speech	3
Poultry Production		Public Speaking	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
1 Military	1	2 Military	1
Required Course		Required Course	
	16		17

Second Year

1 Chemistry	5	1 Botany	5
General Inorganic Chemistry		General Botany	
1 Political Science	5	1 Veterinary Science	3
American Government <u>OR</u>		General Veterinary Science	
20 History	2	1 Dairy Husbandry	3
American History		Dairy Husbandry	
50 Religion	2	55 Religion	3
Bible as Literature I		Bible as Literature II	
60 Religion	2	4 Military	1
Life and Literature of the New Testament		Required Course	
3 Military	1	6 Physical Education	1
Required Course		Required Course	
5 Physical Education	1		
Required Course			
	16		16

Third Year

2 Geology	3	25 Soils	5
Physical Geology		Soils	
15 Chemistry	3	100 Field Crops	4
Elementary Organic Chemistry		Field Crops Management	
75 Rural Sociology	3	100 Rural Sociology	3
Rural Sociology		Group Organization	
1 Horticulture	3	201 Animal Husbandry	3
General Horticulture		Principles of Animal Nutrition	
130 Religion	2	132 Religion	2
Comparative Religion		Ethics of World Religion	
1 Agricultural Economics	3	145 Religion	2
Agricultural Economics		Religion of the Ancient Hebrews	
	17		17

Fourth Year

202 Botany	3	100 Agricultural Extension	5
General Bacteriology		Field Work in Agricultural Extension	
210 Agricultural Chemistry	5	340 Rural Sociology	3
General Agricultural Chemistry		The Rural Community	
171 Religion	3	154 Religion	2
Philosophy of Religion		History of Religion in America	
75 Religion	3	25 Pathology	2
Area of the Middle East		Preventive Medicine	
180 Rural Sociology	2	151 Physical Education	3
Group Work <u>OR</u>		Community Recreation	
190 Rural Sociology	2	50 Agricultural Economics	2
Rural Youth		Advanced Agricultural Economics	
	16		17

AGRICULTURAL CHEMISTRY

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
2 Mathematics	3*	1 Chemistry	5
Elementary Mathematics		General Inorganic Chemistry	
1 Political Science <u>OR</u>		9&10 Mathematics	5
20 History	5	Trigonometry and Algebra	
1 Military	1	2 Military	1
Required Course		Required Course	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
1 Veterinary Science	3		
General Veterinary Science			
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Second Year

27 Chemistry	3	221 Chemistry	3
Qualitative Analysis		Quantitative Analysis	
2 Geology	3	1 Agricultural Economics	3
Physical Geology		Agricultural Economics	
1 Physics	5	1 Zoology	5
Elementary College Physics		General Zoology	
2 Chemistry	3	4 Military	1
General Inorganic Chemistry		Required Course	
3 Military	1	6 Physical Education	1
Required Course		Required Course	
5 Physical Education	1	Electives (Agriculture)	3
Required Course			
	<hr style="width: 50px; margin: 0 auto;"/> 16		<hr style="width: 50px; margin: 0 auto;"/> 16

Third Year

202 Botany	3	212 Chemistry	3
General Bacteriology		Organic Chemistry	
210 & 211 Chemistry	5	230 Chemistry	3
Organic Chemistry		Physical Chemistry	
25 Soils	5	50 Agricultural Economics	2
Soils		Advanced Agricultural Economics	
1 Animal Husbandry	3	Electives (Agriculture)	9
Animal Husbandry			
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Fourth Year

210 Agricultural Chemistry	5	201 Animal Husbandry	3
General Agricultural Chemistry		Principles of Animal Nutrition	
325 Agricultural Economics	3	220 Agricultural Chemistry	5
Elementary Agricultural Statistics		Agricultural Analysis	
Electives (Agriculture)	9	Electives (Agriculture)	8
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*Students will be excused from Mathematics 2 if they pass a qualifying examination.

AGRICULTURAL CHEMICAL ANALYSIS

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Chemistry	5	2 Chemistry	3
General Inorganic Chemistry		General Inorganic Chemistry	
2 Mathematics	3*	1 Political Science <u>OR</u>	
Elementary Mathematics		20 History	5
9&10 Mathematics	5	11 Mathematics	5
Trigonometry and Algebra		Analytic Geometry	
1 Military	1	2 Military	1
Required Course		Required Course	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
	<u>18</u>		<u>18</u>

Second Year

27 Chemistry	3	2 Geology	3
Qualitative Analysis		Physical Geology	
1 Botany or Zoology	5	212 Chemistry	3
210&211 Chemistry	5	Organic Chemistry	
Organic Chemistry		1 Physics	5
3 Military	1	Elementary College Physics	
Required Course		221 Chemistry	3**
5 Physical Education	1	Quantative Chemical Analysis	
Required Course		4 Military	1
	<u>15</u>	Required Course	
		6 Physical Education	1
		Required Course	
			<u>16</u>

Third Year

1 Agricultural Economics	3	25 Soils	5
Agricultural Economics		Soils	
25 Mathematics	5	2 Physics	3
Differential Calculus		Elementary College Physics	
210 Agricultural Chemistry	5	Electives (Agriculture)	9
General Agricultural Chemistry			
Electives (Agriculture)	3		
	<u>16</u>		<u>17</u>

Fourth Year

223 Chemistry	2	50 Economics	2
Quantitative Chemical Analysis		Advanced Agricultural Economics	
201 Animal Husbandry	3	220 Agricultural Chemistry	5
Principles of Animal Nutrition		Agricultural Analysis	
230 Chemistry	3**	310 Agricultural Chemistry	2
Physical Chemistry		Spectroscopy	
202 Botany	3**	400 Agricultural Chemistry	5
General Bacteriology		Special Investigations in	
Electives (Agriculture)	6	Agricultural Analysis	
	<u>17</u>	Electives (Agriculture)	3
			<u>17</u>

*Students will be excused from Mathematics 2 if they pass a qualifying examination.

**Upon recommendation of the advisor and approval of the Dean, these courses may be substituted for the remainder of the 60 hours of required agriculture.

TWO-YEAR COURSE IN AGRICULTURAL CHEMICAL ANALYSIS

(Suggested Selection of Courses)

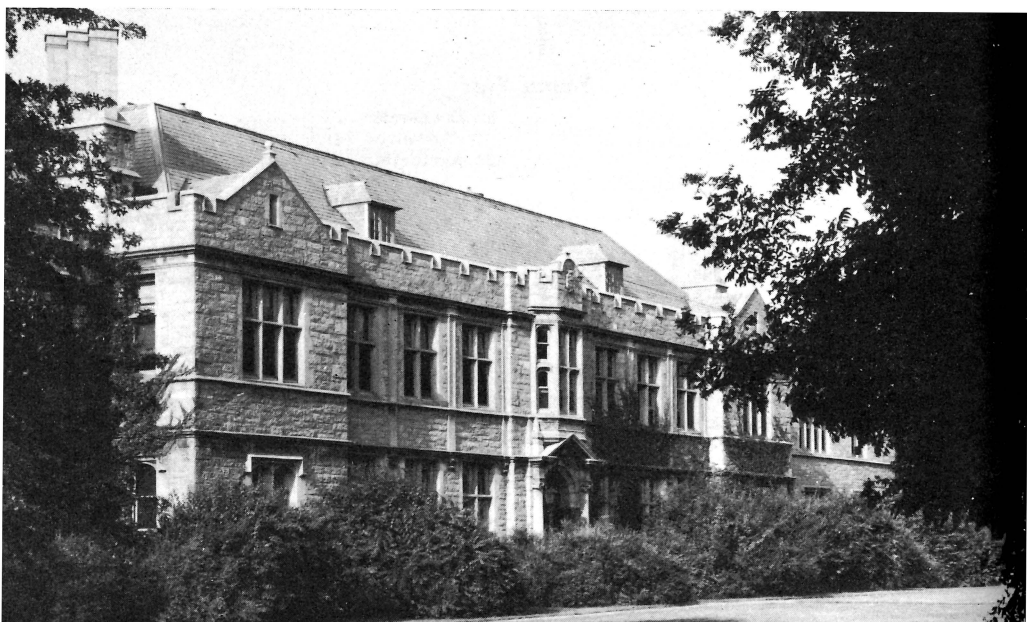
First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
7 or 10 Mathematics	3	2 Chemistry	3
College Algebra		General Inorganic Chemistry	
9 Mathematics	2	210&211 Chemistry	5
Trigonometry		Organic Chemistry	
1 Chemistry	5	27 Chemistry	3
General Inorganic Chemistry		Qualitative Analysis	
1 Military	1	2 Military	1
Required Course		Required Course	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
	15		16

Second Year

210 Agricultural Chemistry	5	220 Agricultural Chemistry	5
General Agricultural Chemistry		Agricultural Analysis	
221 Chemistry	3	230 Chemistry	3
Quantitative Chemical Analysis		Physical Chemistry	
212 Chemistry	3	2 Physics	3
Organic Chemistry		Elementary College Physics	
1 Physics	5	201 Animal Husbandry	3
Elementary College Physics		Principles of Animal Nutrition	
3 Military	1	4 Military	1
Required Course		Required Course	
5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
	18		16

WATERS HALL houses the departments of Field Crops, Poultry Husbandry, Agricultural Education, and the Administrative offices of the Agricultural Extension Service.



AGRICULTURAL CHEMISTRY IN NUTRITION

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
2 Mathematics	3*	1 Chemistry	5
1 Animal Husbandry	3	General Inorganic Chemistry	
Animal Husbandry		1 Veterinary Science	3
1 Military	1	General Veterinary Science	
Required Course		2 Military	1
1 Physical Education	1	Required Course	
Required Course		7 or 10 Mathematics	3
1 Political Science <u>OR</u>		College Algebra	
20 History	5	2 Physical Education	1
		Required Course	
	<hr style="width: 50%; margin: 0 auto;"/> 16		<hr style="width: 50%; margin: 0 auto;"/> 16

Second Year

1 Zoology	5	1 Agricultural Economics	3
General Zoology		Agricultural Economics	
2 Chemistry	3	1 Physics	5
General Inorganic Chemistry		Elementary College Physics	
1 Poultry Husbandry	3	210&211 Chemistry	5
Poultry Production		Organic Chemistry	
3 Military	1	2 Geology	3
Required Course		Physical Geology	
5 Physical Education	1	4 Military	1
Required Course		Required Course	
Electives (Agriculture).	3	6 Physical Education	1
		Required Course	
	<hr style="width: 50%; margin: 0 auto;"/> 16		<hr style="width: 50%; margin: 0 auto;"/> 18

Third Year

201 Physiology and Pharmacology	5	27 Chemistry	3
Elements of Physiology		Qualitative Analysis	
212 Chemistry	3	210 Agricultural Chemistry	5
Organic Chemistry		General Agricultural Chemistry	
201 Animal Husbandry	3	304 Animal Husbandry	3
Principles of Animal Nutrition		Sheep Production	
303 Animal Husbandry	3	Electives (Agriculture).	5
Beef Production			
Electives (Agriculture).	3		
	<hr style="width: 50%; margin: 0 auto;"/> 17		<hr style="width: 50%; margin: 0 auto;"/> 16

Fourth Year

325 Agricultural Economics	3	230 Chemistry	3
Elementary Agricultural Statistics		Physical Chemistry	
221 Chemistry	3	220 Agricultural Chemistry	5
Quantitative Analysis		Agricultural Analysis	
50 Agricultural Economics	2	305 Animal Husbandry	3
Advanced Agricultural Economics		Pork Production	
25 Soils	5	400 Agricultural Chemistry	4
Soils		Investigations in Nutrition	
Electives (Agriculture).	3		
	<hr style="width: 50%; margin: 0 auto;"/> 16		<hr style="width: 50%; margin: 0 auto;"/> 15

*Students will be excused from Mathematics 2 if they pass a qualifying examination.

AGRICULTURAL MARKETING AND PRICES

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Military	1	2 Military	1
Required Course		Required Course	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
1 Botany	5	1 Field Crops	3
General Botany		Field Crops	
2 Geology	3	1 Chemistry	5
Physical Geology		General Inorganic Chemistry	
1 Animal Husbandry <u>OR</u>		1 Agricultural Economics	3
4 Farm Meats	3	Agricultural Economics	
	<u>16</u>		<u>16</u>

Second Year

100 Dairy Husbandry	3	76 Speech	3
Dairy Products		Public Speaking	
37 Accounting and Statistics	4	201 Animal Husbandry	3
Elementary Accounting		Animal Nutrition	
266 Journalism	3	2 Mathematics	3
The Agricultural Press		Elementary Mathematics	
76 Rural Sociology	3	1 Political Science	5
Rural Sociology		American Government	
15 Chemistry	3	50 Agricultural Economics	2
Organic Chemistry		Advanced Agricultural Economics	
3 Military	1	4 Military	1
Required Course		Required Course	
5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
	<u>18</u>		<u>18</u>

Third Year

210 Agricultural Chemistry	5	310 Agricultural Economics	3
General Agricultural Chemistry		General Farm Management	
325 Agricultural Economics	3	365 Agricultural Economics	3
Elementary Agricultural Statistics		Economic Aspects of American	
301 Poultry Husbandry	3	Agricultural Policies	
Marketing Poultry Products		303 Economics and Business	3
314 Economics and Business	4	Corporation Finance	
Retailing		202 Botany	3
240 Agricultural Economics	3	General Bacteriology	
General Agricultural Marketing		25 Soils	5
	<u>18</u>	Soils	<u>17</u>

Fourth Year

351 Agricultural Economics	3	341 Agricultural Economics	3
Agricultural Prices		Farmers Cooperative Business	
314 Horticulture	3	Organization	
Commercial Pomology <u>OR</u>		342 Agricultural Economics	3
1 Horticulture		Advanced Marketing I	
General Horticulture		343 Agricultural Economics	3
354 Economics and Business	3	Advanced Marketing II	
Business Law A		307 Agricultural Economics	3
312 Economics and Business	4	Agricultural Credit	
Marketing Management		336 Economics and Business	3
325 Dairy Husbandry	3	Personnel Management	
Market Milk		465 Agricultural Economics	3
	<u>16</u>	Current Economic Problems of	
		Agriculture	<u>18</u>

FARM MANAGEMENT

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
1 Military	1	1 Military	1
Required Course		Required Course	
2 Mathematics	3	1 Chemistry	5
General Mathematics		General Inorganic Chemistry	
1 Animal Husbandry	3	1 Dairy	3
Animal Husbandry		Dairy Husbandry	
1 Field Crops	3	1 Agricultural Economics	3
Field Crops		Agricultural Economics	
1 Horticulture	3	1 Poultry	3
General Horticulture		Poultry Production	
	17		19

Second Year

5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
3 Military	1	4 Military	1
Required Course		Required Course	
1 Botany or Zoology	5	25 Soils	5
General Botany or Zoology		Soils	
15 Chemistry	3	1 Political Science	5
Organic Chemistry		American Government	
2 Geology	3	10 Agricultural Engineering	3
Physical Geology		Farm Shop Work	
1 Agricultural Engineering	3	144 Horticulture	3
Farm Power and Machinery		Vegetable Gardening	
50 Agricultural Economics	2		
Advanced Agricultural Economics			
	18		18

Third Year

100 Field Crops	2	1 Veterinary Science	3
Field Crops Management		General Veterinary Science	
201 Animal Husbandry	3	1 Entomology	3
Animal Nutrition		Applied Entomology	
240 Agricultural Economics	3	101 Soils	3
General Agricultural Marketing		Soil Management	
202 Botany	3	75 Speech	3
Bacteriology		Public Speaking	
221 Agricultural Engineering	3	310 Agricultural Economics	3
Farm Water Management I		General Farm Management	
80 Agricultural Economics	3	3 Religion	2
Farm Accounts OR		Moral and Religious Values	
37 Accounting and Statistics	4		
Elementary Accounting			
	17 or 18		17

Fourth Year

210 Agricultural Chemistry*	5	351 Agricultural Economics	3
General Agricultural Chemistry		Agricultural Prices	
325 Agricultural Economics	3	435 Agricultural Economics	3
Agricultural Statistics		Advanced Farm Management	
203 Agricultural Engineering	3	202 Animal Husbandry	3
Farm Buildings		Animal Breeding	
310 Dairy	3	307 Agricultural Economics	3
Dairy Production <u>OR</u>		Agricultural Credit	
303 Animal Husbandry	3	354 Economics and Business	3
Beef Production		Business Law A	
301 Political Science	3	201 Veterinary Science	3
Local Rural Government		Stock Farm Sanitation and Disease Prevention	
	17		18

*Mathematics 10 or Mathematics 155 may be substituted in lieu of General Agricultural Chemistry.

LAND ECONOMICS AND FARM FINANCE

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 Military.	1	2 Military.	1
Required Course		Required Course	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
2 Mathematics.	3	10 Mathematics.	3
Elementary Mathematics		College Algebra	
1 Political Science.	5	1 Chemistry	5
American Government		General Inorganic Chemistry	
1 Field Crops	3	1 Agricultural Economics	3
Field Crops		Agricultural Economics	
	<hr style="width: 50%; margin: 0 auto;"/> 16		<hr style="width: 50%; margin: 0 auto;"/> 16

Second Year

3 Military.	1	4 Military.	1
Required Course		Required Course	
5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
2 Geology	3	25 Soils	5
Physical Geology		Soils	
1 Botany.	5	1 Physics	5
General Botany		Elementary College Physics	
15 Chemistry	3	1 Horticulture.	3
Elementary Organic Chemistry		General Horticulture	
1 Animal Husbandry	3	1 Dairy	3
Animal Husbandry		Dairy Husbandry	
50 Agricultural Economics	2		
Advanced Agricultural Economics			
	<hr style="width: 50%; margin: 0 auto;"/> 18		<hr style="width: 50%; margin: 0 auto;"/> 18

Third Year

80 Agricultural Economics	3	341 Agricultural Economics	2
Farm Accounts		Farmers' Cooperative Business	
102 Soils	3	Organization	
Soil Survey and Land Appraisal		75 Rural Sociology.	3
301 Soils	3	Rural Sociology	
Soil Fertility		329 Economics and Business.	5
203 Agricultural Engineering	3	Money-Credit and Banking	
Farm Buildings		75 Speech.	3
240 Agricultural Economics	3	Public Speaking	
General Agricultural Marketing		50 Forestry	3
201 Animal Husbandry	3	General Forestry	
Principles of Animal Nutrition		100 Field Crops	2
	<hr style="width: 50%; margin: 0 auto;"/> 18	Field Crops Management	
			<hr style="width: 50%; margin: 0 auto;"/> 18

Fourth Year

360 Agricultural Economics	2	351 Agricultural Economics	3
Land Economics		Agricultural Prices	
308 Soils	3	310 Agricultural Economics	3
Soil Conservation		General Farm Management	
325 Agricultural Economics	3	307 Agricultural Economics	3
Elementary Agricultural Statistics		Agricultural Credit	
340 Economics and Business.	3	161 Forestry	3
Real Estate		Forestry Economics	
370 Agricultural Economics	2	375 Agricultural Economics	2
Land Renting Problems		Farm Mortgage Problems	
301 Political Science.	3	361 Agricultural Economics	3
Local Rural Government		Economic Aspects of American	
303 Economics and Business.	3	Agricultural Policy	
Corporation Finance			
	<hr style="width: 50%; margin: 0 auto;"/> 19		<hr style="width: 50%; margin: 0 auto;"/> 17

FARM MACHINERY, FARM BUILDINGS, AND WATER MANAGEMENT

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Agricultural Economics	3	9 Mathematics	2
Agricultural Economics		Trigonometry	
7 Mathematics	3	10 Mathematics	3
Introductory College Algebra		College Algebra	
1 Mechanical Engineering	3	1 Agricultural Engineering	3
Engineering Drawing		Farm Power and Machinery I	
10 Agricultural Engineering	3	1 Field Crops	3
Farm Shop Work		Field Crops	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
1 Military	1	2 Military	1
Required Course		Required Course	
	<hr style="width: 50px; margin: 0 auto;"/> 17		<hr style="width: 50px; margin: 0 auto;"/> 16

Second Year

2 Geology	3	11 Mathematics	5
Physical Geology		Analytic Geometry	
1 Physics	5	2 Physics	3
Elementary College Physics		Elementary College Physics	
1 Chemistry	5	25 Soils	5
General Inorganic Chemistry		Soils	
5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
3 Military	1	4 Military	1
Required Course		Required Course	
	<hr style="width: 50px; margin: 0 auto;"/> 15		<hr style="width: 50px; margin: 0 auto;"/> 15

Third Year

215 Agricultural Engineering	3	101 Soils	3
Electricity on the Farm		Soil Management	
1 Botany (General Botany) <u>OR</u>		100 Field Crops	2
1 Zoology (General Zoology)	5	Field Crops Management	
50 Agricultural Economics	2	212 Agricultural Engineering	3
Advanced Agricultural Economics		Farm Power and Machinery II	
221 Agricultural Engineering	3	82 Civil Engineering	2
Farm Water Management I		Engineering Materials	
Electives	3	110 Agricultural Engineering	3
		Farm Machinery Maintenance	
	<hr style="width: 50px; margin: 0 auto;"/> 16	Electives	3
			<hr style="width: 50px; margin: 0 auto;"/> 16

Fourth Year

15 Chemistry	3	201 Animal Husbandry	3
Organic Chemistry		Principles of Animal Nutrition	
203 Agricultural Engineering	3	20 History (American History) <u>OR</u>	
Farm Buildings		1 Political Science (American	
310 Agricultural Economics	3	Government)	5
General Farm Management		75 Speech	3
231 Agricultural Engineering	3	Public Speaking	
Farm Water Management II		Electives	7
308 Soils	3		
Soil Conservation			
	<hr style="width: 50px; margin: 0 auto;"/> 15		<hr style="width: 50px; margin: 0 auto;"/> 18

TWO-YEAR COURSE IN FARM MACHINERY, FARM BUILDINGS AND WATER MANAGEMENT

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
10 Agricultural Engineering	3	1 Agricultural Engineering	3
Farm Shop Work		Farm Power and Machinery I	
2 Mathematics	3	1 Soils	3
Elementary Mathematics		Introduction to Soils	
1 Field Crops	3	9 Mathematics	2
Field Crops		Trigonometry	
1 Mechanical Engineering	3	2 Physical Education	1
Engineering Drawing		Required Course	
1 Physical Education	1	2 Military	1
Required Course		Required Course	
1 Military	1	Electives	3
Required Course			
	<hr style="width: 50%; margin: 0 auto;"/> 17		<hr style="width: 50%; margin: 0 auto;"/> 16

Second Year

103 Agricultural Engineering	3	110 Agricultural Engineering	3
Elementary Farm Buildings		Farm Machinery Maintenance	
1 Agricultural Economics	3	1 Animal Husbandry	3
Agricultural Economics		Animal Husbandry	
221 Agricultural Engineering	3	1 Dairy Husbandry	3
Farm Water Management I		Dairy Husbandry	
3 Military	1	4 Military	1
Required Course		Required Course	
5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
Electives	5	Electives	5
	<hr style="width: 50%; margin: 0 auto;"/> 16		<hr style="width: 50%; margin: 0 auto;"/> 16

Students receive practical experience in the operation and care of farm tools, machinery, and equipment.



ANIMAL HUSBANDRY

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 Animal Husbandry	3	2 Animal Husbandry	3
Animal Husbandry		Breeds of Livestock	
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Field Crops	3	1 Chemistry	5
Field Crops		General Inorganic Chemistry	
2 Mathematics	3	1 Geology	5
Elementary Mathematics		Principles of Geology	
1 Veterinary Science	3	2 Military	1
General Veterinary Science		Required Course	
1 Military	1	2 Physical Education	1
Required Course		Required Course	
1 Physical Education	1		
Required Course			
	<hr style="width: 50%; margin: 0 auto;"/> 17		<hr style="width: 50%; margin: 0 auto;"/> 18

Second Year

4 Animal Husbandry	3	3 Animal Husbandry	3
Farm Meats		Livestock Judging	
1 Agricultural Economics	3	201 Animal Husbandry	3
Agricultural Economics		Animal Nutrition	
1 Zoology	5	202 Animal Husbandry	3
General Zoology		Animal Breeding	
15 Chemistry	3	50 Agricultural Economics	2
Organic Chemistry		Advanced Agricultural Economics	
3 Military	1	202 Botany	3
Required Course		General Bacteriology	
5 Physical Education	1	4 Military	1
Required Course		Required Course	
	<hr style="width: 50%; margin: 0 auto;"/> 16	6 Physical Education	1
		Required Course	
			<hr style="width: 50%; margin: 0 auto;"/> 16

Third Year

203 Animal Husbandry	3	304 Animal Husbandry	2
Advanced Livestock Judging		Sheep Production	
303 Animal Husbandry	3	305 Animal Husbandry	3
Beef Production		Pork Production	
25 Soils	5	340 Zoology	3
Soils		Genetics	
Electives	6	100 Field Crops	2
		Field Crops Management	
	<hr style="width: 50%; margin: 0 auto;"/> 17	210 Agricultural Chemistry	5
		General Agricultural Chemistry	
			<hr style="width: 50%; margin: 0 auto;"/> 15

Fourth Year

306 Animal Husbandry	2	410 Animal Husbandry	1
Horse Production		Seminar	
310 Agricultural Economics	3	307 Animal Husbandry	2
General Farm Management		Livestock Management	
1 Physics	5	101 Soils	3
Elementary College Physics		Soil Management	
221 Agricultural Engineering	3	1 Political Science	
Farm Water Management		American Government <u>OR</u>	
330 Animal Husbandry	3	20 History	5
Genetics of Livestock Improvement		American History	
	<hr style="width: 50%; margin: 0 auto;"/> 16	201 Veterinary Science	3
		Stock Farm Sanitation	
		Electives	2
			<hr style="width: 50%; margin: 0 auto;"/> 16

ANIMAL HUSBANDRY-FOOD TECHNOLOGY

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Animal Husbandry	3	4 Animal Husbandry	3
Animal Husbandry		Farm Meats	
1 Agricultural Economics	3	20 History	
Agricultural Economics		American History <u>OR</u>	
1 Horticulture	3	1 Political Science	5
General Horticulture		American Government	
2 Mathematics	3	9 Mathematics	2
Elementary Mathematics		Trigonometry	
1 Military	1	10 Mathematics	3
Required Course		College Algebra	
1 Physical Education	1	2 Military	1
Required Course		Required Course	
		2 Physical Education	1
		Required Course	
	<u>17</u>		<u>18</u>

Second Year

1 Poultry Husbandry	3	104 Animal Husbandry	2
Poultry Production		Meat Selection and Judging	
1 Soils	3	1 Veterinary Science	3
Elementary Soils		General Veterinary Science	
1 Chemistry	5	2 Chemistry	3
General Inorganic Chemistry		General Inorganic Chemistry	
1 Botany (General Botany) <u>OR</u>		202 Botany	3
1 Zoology (General Zoology)	5	General Bacteriology	
3 Military	1	50 Agricultural Economics	2
Required Course		Advanced Agricultural Economics	
5 Physical Education	1	4 Military	1
Required Course		Required Course	
		6 Physical Education	1
		Required Course	
		Electives3
	<u>18</u>		<u>18</u>

Third Year

240 Agricultural Economics	3	37 Accounting	4
General Agricultural Marketing		Elementary Accounting	
1 Physics	5	2 Physics	3
Elementary College Physics		Elementary College Physics	
210 Chemistry	5	25 Chemistry	5
Organic Chemistry		Analytical Chemistry	
Electives3	Electives4
	<u>16</u>		<u>16</u>

Fourth Year

301 Poultry Husbandry	3	1 Field Crops	3
Marketing Poultry		Field Crops	
201 Animal Husbandry	3	309 Animal Husbandry	3
Principles of Animal Nutrition		Meat Technology	
314 Horticulture	3	1 Agricultural Engineering	
Commercial Pomology		Farm Power and Machinery <u>OR</u>	
210 Agricultural Chemistry	5	10 Agricultural Engineering	3
General Agricultural Chemistry		Farm Shop Work	
Electives	2	1 Entomology	3
		Applied Entomology	
		Electives (Agriculture)4
	<u>16</u>		<u>16</u>

ANIMAL HUSBANDRY-FOOD TECHNOLOGY

(Suggested Selection of Courses for Home Economics Majors)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Botany (General Botany) <u>OR</u>		1 Chemistry	5
1 Zoology (General Zoology)	5	General Inorganic Chemistry	
20 History		224 Animal Husbandry	3
American History <u>OR</u>		Meat Selection and Identification	
1 Political Science	5	9 Mathematics	2
American Government		Trigonometry	
2 Mathematics	3	10 Mathematics	3
Elementary Mathematics		College Algebra	
Physical Education	1	Physical Education	1
Required Course		Required Course	
	<hr style="width: 50px; margin: 0 auto;"/> 17		<hr style="width: 50px; margin: 0 auto;"/> 17

Second Year

202 Botany	3	201 Physiology	5
General Bacteriology		Elements of Physiology	
2 Chemistry	3	127 Home Economics	3
General Inorganic Chemistry		Food Buying and Meal Service	
210 Chemistry	5	51 Economics and Business	5
Organic Chemistry		General Economics	
31 Home Economics	5	Electives	2
Selection and Preparation of Foods		Physical Education	1
Physical Education	1	Required Course	
Required Course			
	<hr style="width: 50px; margin: 0 auto;"/> 17		<hr style="width: 50px; margin: 0 auto;"/> 16

Third Year

1 Physics	5	222 Home Economics	4
Elementary College Physics		Dietetics	
210 Agricultural Chemistry	5	2 Physics	3
General Agricultural Chemistry		Elementary College Physics	
131 Home Economics	3	25 Chemistry	5
Chemistry of Foods		Analytical Chemistry	
and its Utilization		37 Accounting	4
126 Home Economics	2	Elementary Accounting	
Food Demonstration			
	<hr style="width: 50px; margin: 0 auto;"/> 15		<hr style="width: 50px; margin: 0 auto;"/> 16

Fourth Year

136 Home Economics	3	323 Home Economics	3
Large Quantity Cookery		Advanced Nutrition	
314 Horticulture	3	and Diet Therapy	
Commercial Pomology		370 Home Economics	3
1 Entomology	3	Experimental Cookery	
Applied Entomology		327 Home Economics	3
Electives	6	Institutional Organization and	
		Administration	
		309 Animal Husbandry	3
		Meat Technology	
		Electives	3
	<hr style="width: 50px; margin: 0 auto;"/> 15		<hr style="width: 50px; margin: 0 auto;"/> 15

TWO-YEAR COURSE IN ANIMAL HUSBANDRY

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 Animal Husbandry	3	2 Animal Husbandry	3
Animal Husbandry		Breeds of Livestock	
1 English	3	304 Animal Husbandry	2
Composition and Rhetoric		Sheep Production	
1 Field Crops	3	2 English	3
Field Crops		Composition and Rhetoric	
1 Veterinary Science	3	201 Animal Husbandry	3
General Veterinary Science		Animal Nutrition	
1 Agricultural Engineering	3	303 Field Crops	3
Farm Power and Machinery I		Forage Crops Production	
1 Military	1	2 Military	1
Required Course		Required Course	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
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Second Year

4 Animal Husbandry	3	305 Animal Husbandry	3
Farm Meats		Pork Production	
303 Animal Husbandry	3	202 Animal Husbandry	3
Beef Production		Animal Breeding	
306 Animal Husbandry	2	3 Animal Husbandry	3
Horse Production		Livestock Judging	
201 Veterinary Science	3	100 Field Crops	2
Stock Farm Sanitation		Field Crops Management	
1 Soils	3	310 Agricultural Economics	3
Elementary Soils		General Farm Management	
3 Military	1	4 Military	1
Required Course		Required Course	
5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
	<hr style="width: 100%; border: 0.5px solid black; margin: 0;"/> 16		<hr style="width: 100%; border: 0.5px solid black; margin: 0;"/> 16

Ample herds and flocks are available for all instructional and research work.



COUNTY AGRICULTURAL EXTENSION WORK

(Suggested Selection of Courses)

First Year

First Semester	Hours	Second Semester	Hours
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Agricultural Economics	3	50 Agricultural Economics	2
Agricultural Economics		Advanced Agricultural Economics	
1 Field Crops	3	1 Chemistry	5
Field Crops		General Inorganic Chemistry	
2 Geology	3	1 Dairy Husbandry	3
Physical Geology		Dairy Husbandry	
1 Poultry Husbandry	3	1 Horticulture	3
Poultry Husbandry		General Horticulture	
1 Military	1	2 Military	1
Required Course		Required Course	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
	17		18

Second Year

1 Botany	5	1 Zoology	5
General Botany		General Zoology	
1 Animal Husbandry	3	1 Veterinary Science	3
Animal Husbandry		General Veterinary Science	
2 Mathematics	3	1 Entomology	3
General Mathematics		Applied Entomology	
15 Chemistry	3	1 Political Science	5
Elementary Organic Chemistry		American Government	
3 Military	1	4 Military	1
Required Course		Required Course	
5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
*Electives	2		
	18		18

Third Year

25 Soils	5	75 Speech	3
Soils		Public Speaking	
201 Animal Husbandry	3	100 Rural Sociology	3
Principles of Animal Nutrition		Group Organization	
202 Botany	3	101 Soils	3
General Bacteriology		Soil Management	
100 Field Crops	2	*Electives	7
Field Crops Management			
*Electives	3		
	16		16

Fourth Year

274 Journalism	3	202 Animal Husbandry	3
The Agricultural Press		Animal Breeding	
201 Veterinary Science	3	A102 Education	3
Stock Farm Sanitation and Disease Control		Educational Psychology	
221 Agricultural Engineering	3	*Electives	10
Farm Water Management I			
*Electives	7		
	16		16

*Must include at least 9 hours of agricultural electives.

DAIRY PRODUCTION

(Suggested Selection of Courses)

First Year

First Semester	Hours	Second Semester	Hours
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Dairy Husbandry	3	1 Veterinary Science	3
Dairy Husbandry		General Veterinary Science	
1 Agricultural Economics	3	1 Agricultural Engineering	
Agricultural Economics		Farm Power and Machinery <u>OR</u>	
1 Field Crops	3	10 Agricultural Engineering	3
Field Crops		Farm Shop	
2 Mathematics	3	1 Zoology (General Zoology) <u>OR</u>	
Elementary Mathematics		1 Botany (General Botany)	5
1 Military	1	2 Military	1
Required Course		Required Course	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
	17		16

Second Year

50 Agricultural Economics	2	15 Chemistry	3
Advanced Agricultural Economics		Elementary Organic Chemistry	
1 Chemistry	5	201 Animal Husbandry	3
General Inorganic Chemistry		Principles of Animal Nutrition	
1 Speech		202 Botany	3
Oral Communication <u>OR</u>		General Bacteriology	
75 Speech	3	210 Dairy Husbandry	2
Public Speaking		Advanced Dairy Cattle Judging	
110 Dairy Husbandry	2	202 Animal Husbandry	3
Dairy Cattle Judging		Animal Breeding	
2 Geology	3	4 Military	1
Physical Geology		Required Course	
3 Military	1	6 Physical Education	1
Required Course		Required Course	
5 Physical Education	1		
Required Course			
	17		16

Third Year

1 Political Science		25 Soils	5
American Government <u>OR</u>		Soils	
20 History	5	75 Rural Sociology	
American History		Rural Sociology <u>OR</u>	
310 Dairy Husbandry	3	100 Rural Sociology	3
Dairy Production		Group Organization	
210 Agricultural Chemistry	5	303 Field Crops	3
General Agricultural Chemistry		Forage Crop Production	
320 Dairy Husbandry	3	380 Dairy Husbandry	3
Dairy Bacteriology		Dairy Cattle Breeding	
		Electives	2
	16		16

Fourth Year

201 Veterinary Science	3	360 Dairy Husbandry	3
Stock Farm Sanitation		Farm and Plant Inspection	
325 Dairy Husbandry	3	410 Dairy Husbandry	1
Market Milk		Seminar	
385 Dairy Husbandry	3	430 Dairy Husbandry	
Artificial Breeding of Dairy Cattle		Milk Secretion II <u>OR</u>	
410 Dairy Husbandry	1	440 Dairy Husbandry	3
Seminar		Bioenergetics and Growth	
420 Dairy Husbandry	3	445 Dairy Husbandry	2
Endocrinology <u>OR</u>		Advanced Dairy Production	
425 Dairy Husbandry	2	Electives	5
Milk Secretion I			
Electives	3 or 4		
	16		14

TWO-YEAR COURSE IN DAIRY PRODUCTION

(Suggested Selection of Courses)

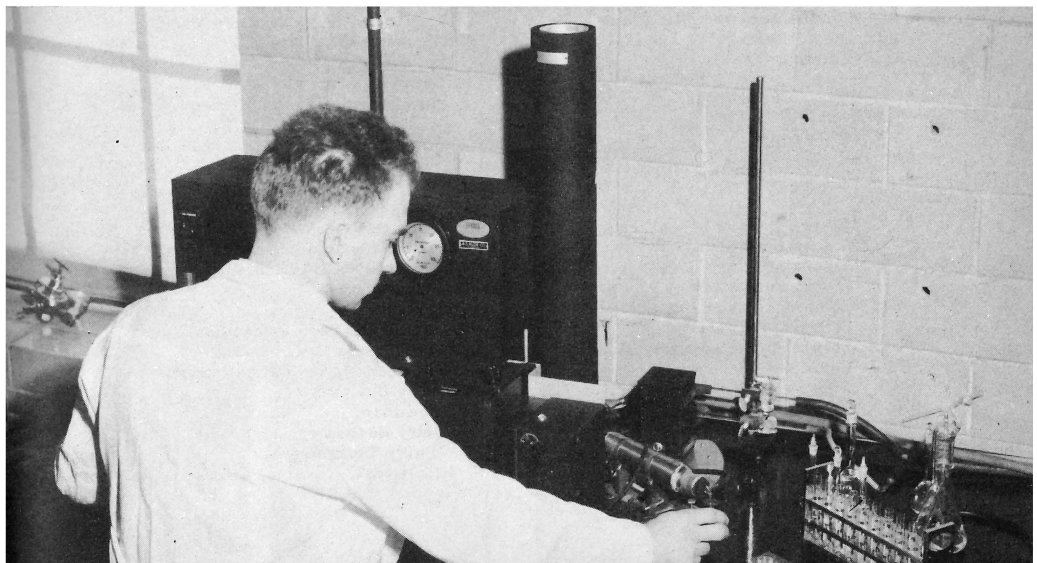
First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Dairy Husbandry	3	1 Soils	3
Dairy Husbandry		Soils	
1 Agricultural Economics	3	1 Veterinary Science	3
Agricultural Economics		General Veterinary Science	
1 Field Crops	3	1 Agricultural Engineering	
Field Crops		Farm Power and Machinery <u>OR</u>	
2 Mathematics	3	10 Agricultural Engineering	3
Elementary Mathematics		Farm Shop	
1 Military	1	110 Dairy Husbandry	3
Required Course		Dairy Cattle Judging	
1 Physical Education	1	2 Military	1
Required Course		Required Course	
		2 Physical Education	1
		Required Course	
	<u>17</u>		<u>17</u>

Second Year

100 Veterinary Science	3	50 Agricultural Economics	2
Veterinary Medicine and Surgery		Advanced Agricultural Economics	
201 Veterinary Science	3	101 Veterinary Science	3
Stock Farm Sanitation		Veterinary Medicine	
310 Dairy Husbandry	3	201 Animal Husbandry	3
Dairy Production		Principles of Animal Nutrition	
325 Dairy Husbandry	3	210 Dairy Husbandry	2
Market Milk		Advanced Dairy Cattle Judging	
380 Dairy Husbandry	3	303 Field Crops	3
Dairy Cattle Breeding		Forage Crop Production	
3 Military	1	385 Dairy Husbandry	3
Required Course		Artificial Breeding of Dairy Cattle	
5 Physical Education	1	4 Military	1
Required Course		Required Course	
		6 Physical Education	1
		Required Course	
	<u>17</u>		<u>18</u>

A new Beckman Spectrophotometer in the Dairy Department.



DAIRY MANUFACTURING

(Suggested Selection of Courses)

First Year

First Semester	Hours	Second Semester	Hours
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Dairy Husbandry	3	1 Soils	3
Dairy Husbandry		Soils	
1 Agricultural Economics	3	1 Field Crops	3
Agricultural Economics		Field Crops	
2 Mathematics	3	1 Zoology (General Zoology) <u>OR</u>	
Elementary Mathematics		1 Botany (General Botany)	5
3 Religion	2	2 Military	1
Fundamental Moral and Religious Values		Required Course	
1 Military	1	2 Physical Education	1
Required Course		Required Course	
1 Physical Education	1		
Required Course			
	16		16

Second Year

1 Chemistry	5	1 Physics	5
General Inorganic Chemistry		Elementary College Physics	
1 Speech		15 Chemistry	3
Oral Communication <u>OR</u>		Elementary Organic Chemistry	
75 Speech	3	130 Dairy Husbandry	2
Public Speaking		Dairy Products Testing	
50 Agricultural Economics	2	202 Botany	3
Advanced Agricultural Economics		General Bacteriology	
100 Dairy Husbandry	3	4 Military	1
Dairy Products		Required Course	
120 Dairy Husbandry	2	6 Physical Education	1
Dairy Products Judging		Required Course	
3 Military	1	Electives	3
Required Course			
5 Physical Education	1		
Required Course			
	17		18

Third Year

37 Accounting	4	75 Rural Sociology	
Elementary Accounting		Rural Sociology <u>OR</u>	
310 Dairy Husbandry	3	100 Rural Sociology	3
Dairy Production		Group Organization	
320 Dairy Husbandry	3	210 Agricultural Chemistry	5
Dairy Bacteriology		General Agricultural Chemistry	
325 Dairy Husbandry	3	220 Dairy Husbandry	1
Market Milk and Milk Control		Advanced Dairy Products Judging	
330 Dairy Husbandry	3	317 Accounting	3
Butter and Cheese		Intermediate Accounting	
		335 Dairy Husbandry	3
		Ice Cream, Concentrated and Dried Milks	
		Electives	1
	16		16

Fourth Year

1 Political Science		345 Dairy Husbandry	2
American Government <u>OR</u>		Dairy Plant Management	
20 American History	5	354 Economics and Business	3
American History		Business Law A	
303 Economics and Business	3	360 Dairy Husbandry	2
Corporation Finance		Farm and Plant Inspection	
336 Economics and Business	3	405 Dairy Husbandry	3
Personnel Management		Bacteriology of Dairy Products	
410 Dairy Husbandry	1	410 Dairy Husbandry	1
Seminar		Seminar	
435 Dairy Husbandry	2	415 Dairy Husbandry	3
Nutritional Properties of Dairy Products		Dairy Technology	
Electives	2	Electives	2
	16		16

TWO-YEAR COURSE IN DAIRY MANUFACTURING

(Suggested Selection of Courses)

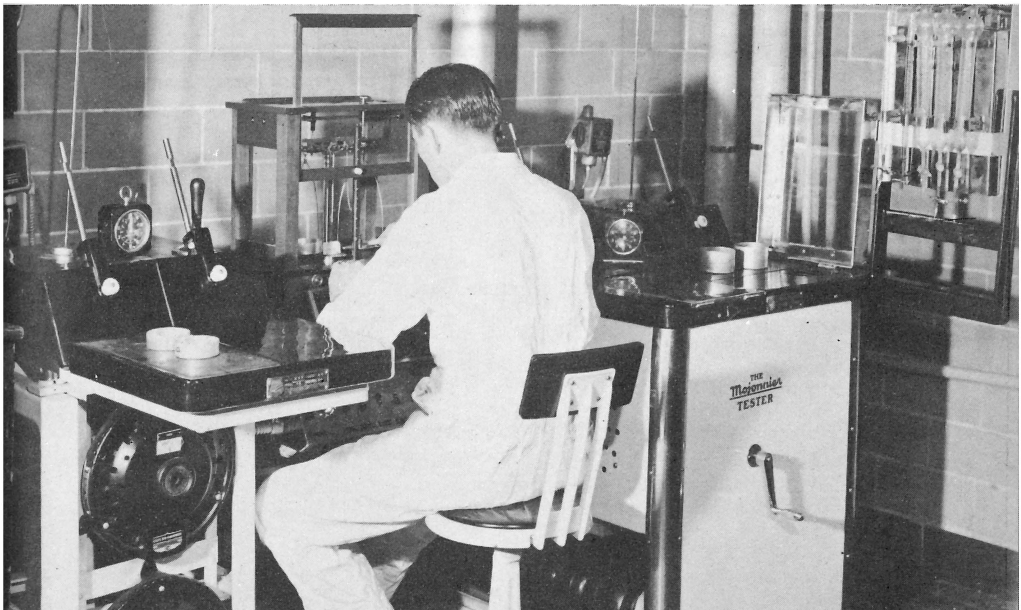
First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Dairy Husbandry	3	1 Agricultural Economics	3
Dairy Husbandry		Agricultural Economics	
1 Zoology (General Zoology) <u>OR</u>		1 Soils	3
1 Botany (General Botany)	5	Soils	
2 Mathematics	3	1 Chemistry	5
Elementary Mathematics		General Inorganic Chemistry	
1 Military	1	2 Military	1
Required Course		Required Course	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
	16		16

Second Year

100 Dairy Husbandry	3	1 Field Crops	3
Dairy Products		Field Crops	
120 Dairy Husbandry	2	130 Dairy Husbandry	2
Dairy Products Judging		Dairy Products Testing	
202 Botany	3	220 Dairy Husbandry	1
General Bacteriology		Advanced Dairy Products Judging	
310 Dairy Husbandry	3	320 Dairy Husbandry	3
Dairy Production		Dairy Bacteriology	
325 Dairy Husbandry	3	335 Dairy Husbandry	3
Market Milk		Ice Cream, Concentrated and Dried	
3 Military	1	Milks	
Required Course		345 Dairy Husbandry	2
5 Physical Education	1	Dairy Plant Management	
Required Course		4 Military	1
	16	Required Course	
		6 Physical Education	1
		Required Course	
			16

Methods of efficient dairy production and manufacturing are studied in the University dairv.



ENTOMOLOGY

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Zoology	5	1 Botany	5
General Zoology		General Botany	
2 Mathematics	3	1 Entomology	3
Elementary Mathematics		Applied Entomology	
1 Horticulture	3	1 Agricultural Economics	3
General Horticulture		Agricultural Economics	
1 Military	1	2 Military	1
Required Course		Required Course	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
	16		16

Second Year

1 Chemistry	5	312 Entomology	3
General Inorganic Chemistry		Orchard, Garden and Greenhouse Insects	
316 Entomology	3	20 History	
Insect Morphology		American History <u>OR</u>	
1 Field Crops	3	1 Political Science	5
Field Crops		American Government	
10 Agricultural Engineering	3	50 Agricultural Economics	2
Farm Shop Work		Advanced Agricultural Economics	
3 Military	1	202 Botany	3
Required Course		General Bacteriology	
5 Physical Education	1	2 Geology	3
Required Course		Physical Geology	
	16	4 Military	1
		Required Course	
		6 Physical Education	1
		Required Course	
			18

Third Year

301 Horticulture	3	25 Chemistry	5
General Pomology		Analytical Chemistry	
1 Physics	5	301 Botany	3
Elementary Physics		Plant Pathology	
15 Chemistry	3	109 Entomology	2
Organic Chemistry		Beekeeping	
304 Entomology	3	313 Horticulture	3
Insect Taxonomy		Spraying	
311 Entomology	2	319 Entomology	3
Field Crop Insects		Insect Ecology	
	16		16

Fourth Year

310 Entomology	3	317 Entomology	3
Forest Entomology		Embryology and Physiology of Insects	
315 Entomology	3	25 Soils	5
Veterinary and Medical Entomology		Soils	
210 Agricultural Chemistry	5	410 Seminar (Entomology)	1
General Agricultural Chemistry		Electives	8
410 Seminar (Entomology)	1		
Foreign Language	5		
	17		17

TWO-YEAR CURRICULUM FOR BEEKEEPERS

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Botany	5	1 Field Crops	3
General Botany		Field Crops	
1 Entomology	3	1 Zoology	5
Applied Entomology		General Zoology	
7 Mathematics	3	109 Entomology	2
Introductory Course		Beekeeping	
10 Agricultural Engineering	3	1 Horticulture	3
Farm Shop Work		General Horticulture	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
1 Military	1	2 Military	1
Required Course		Required Course	
	<u>18</u>		<u>18</u>

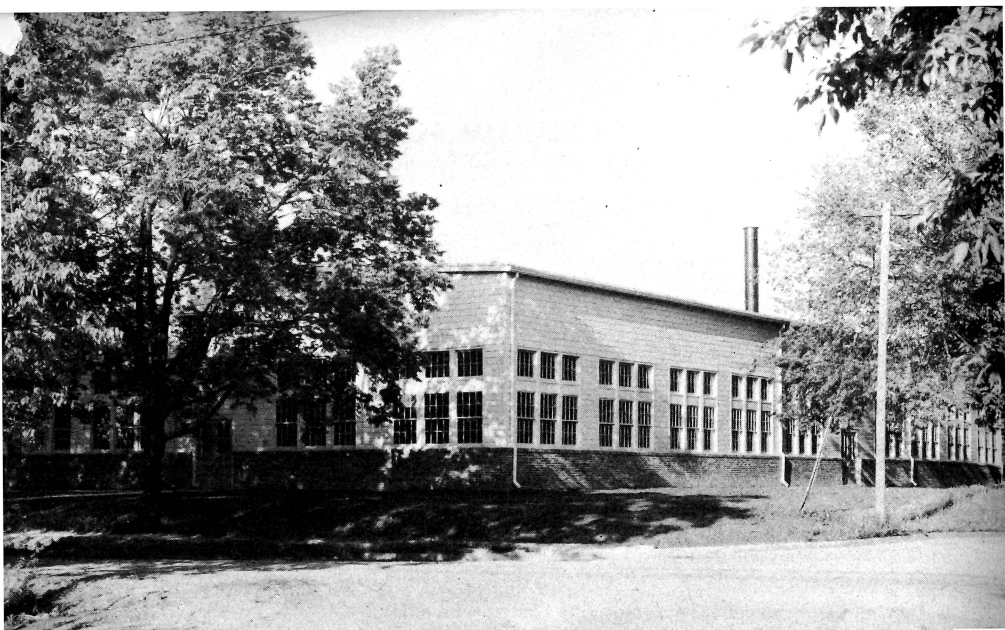
One summer's practical experience in commercial apiary.

Second Year

75 Speech	3	300 Entomology	3
Public Speaking		Apiary Management	
300 Entomology	2	300 Entomology	3
Preparing Bees for Winter		Honey Plants and Fruit Pollination	
300 Entomology	3	300 Entomology	2
Marketing Honey		Queen Rearing	
304 Entomology	3	300 Entomology	3
Insect Taxonomy		Apiary Inspection and Disease Control	
1 Chemistry	5	300 Entomology	3
General Inorganic Chemistry		Preparation and Care of Bee Equipment	
5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
3 Military	1	4 Military	1
Required Course		Required Course	
	<u>18</u>	Electives	<u>2</u>
			<u>18</u>

MIDWAY ORCHARD—The Department of Horticulture maintains two experimental farms near Columbia.





The new Poultry Laboratory is completely equipped.

TWO-YEAR CURRICULUM FOR PEST CONTROL OPERATORS

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Entomology	3	1 Chemistry	5
Applied Entomology		General Inorganic Chemistry	
203 Agricultural Engineering	3	202 Botany	3
Farm Buildings		General Bacteriology	
1 Zoology	5	304 Entomology	3
General Zoology		Insect Taxonomy	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
1 Military	1	2 Military	1
Required Course		Required Course	
	<u>16</u>		<u>16</u>

One semester's practical experience in pest control work under direction of Department of Entomology.

Second Year

15 Chemistry	3	300 Entomology	3
Organic Chemistry		Special Problems DDT, Fumigants	
316 Entomology	3	300 Entomology	3
Insect Morphology		Special Problems Insect and	
300 Entomology	3	Rodent Pests	
Special Problems Termite		315 Entomology	3
Control		Veterinary and Medical Entomology	
75 Speech	3	319 Entomology	3
Public Speaking		Insect Ecology	
3 Military	1	4 Military	1
Required Course		Required Course	
5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
Electives	<u>3</u>	Electives	<u>4</u>
	17		18

FIELD CROPS

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
2 Mathematics	3	1 Agricultural Engineering	3
Elementary Mathematics		Farm Power and Machinery	
1 Animal Husbandry	3	1 Botany	5
Animal Husbandry		General Botany	
1 Field Crops	3	1 Agricultural Economics	3
Field Crops		Agricultural Economics	
1 Horticulture	3	2 Physical Education	1
General Horticulture		Required Course	
1 Physical Education	1	2 Military	1
Required Course		Required Course	
1 Military	1		
Required Course			
	17		16

Second Year

1 Political Science		25 Soils	5
American Government <u>OR</u>		Soils	
20 History	5	1 Zoology	5
American History		General Zoology	
1 Chemistry	5	50 Agricultural Economics	2
General Inorganic Chemistry		Advanced Agricultural Economics	
2 Geology	3	15 Chemistry	3
Physical Geology		Elementary Organic Chemistry	
303 Field Crops	3	6 Physical Education	1
Forage Crops Production		Required Course	
5 Physical Education	1	4 Military	1
Required Course		Required Course	
3 Military	1		
Required Course			
	18		17

Third Year

301 Field Crops	3	302 Field Crops	2
Field Crops Improvement		Fiber Crops Production	
210 Agricultural Chemistry	5	202 Botany	3
General Agricultural Chemistry		General Bacteriology	
1 Entomology	3	101 Soils	3
Applied Entomology		Soil Management	
308 Soils	5	201 Botany	3
Soil Conservation		Elementary Taxonomy	
		Electives	5
	16		16

Fourth Year

100 Field Crops	2	203 Botany	5
Field Crops Management		Plant Physiology	
325 Agricultural Economics	3	304 Field Crops	3
Elementary Agricultural Statistics		Grain Crops Production	
301 Botany	3	Electives	8
Plant Pathology			
201 Animal Husbandry	3		
Animal Nutrition			
Electives	5		
	16		16

FIELD CROPS

(Suggested Selection of Courses for Training Seed Analysts)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Field Crops	3	1 Agricultural Economics	3
Field Crops		Agricultural Economics	
1 Horticulture	3	1 Botany	5
General Horticulture		General Botany	
1 Entomology	3	1 Political Science	
Applied Entomology		American Government OR	
2 Mathematics	3	20 History	5
Elementary Mathematics		American History	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
1 Military	1	2 Military	1
Required Course		Required Course	
	<u>17</u>		<u>18</u>

Second Year

1 Chemistry	5	1 Zoology	5
General Inorganic Chemistry		General Zoology	
2 Geology	3	25 Soils	5
Physical Geology		Soils	
1 Animal Husbandry	3	303 Field Crops	3
Animal Husbandry		Forage Crops Production	
1 Agricultural Engineering	3	202 Botany	3
Farm Power and Machinery		General Bacteriology	
50 Agricultural Economics	2	6 Physical Education	1
Advanced Agricultural Economics		Required Course	
5 Physical Education	1	4 Military	1
Required Course		Required Course	
3 Military	1		
Required Course			
	<u>18</u>		<u>18</u>

Summer

10 Field Crops 2-5
Seed Analysis

Third Year

301 Field Crops	3	201 Botany	5
Field Crops Improvement		Taxonomy	
15 Chemistry	3	304 Field Crops	3
Elementary Organic Chemistry		Grain Crops Production	
101 Horticulture	3	100 Field Crops	2
Plant Propagation		Field Crops Management	
201 Animal Husbandry	3	109 Horticulture	3
Principles of Animal Nutrition		General Floriculture	
301 Botany	3	144 Horticulture	3
Plant Pathology		Vegetable Gardening	
	<u>15</u>		<u>16</u>

Fourth Year

210 Agricultural Chemistry	5	203 Botany	5
General Agricultural Chemistry		Plant Physiology	
308 Botany	5	303 Botany	5
Plant Anatomy		Morphology of Seed Plants	
306 Botany	3	302 Field Crops	2
Plant Ecology		Fiber Crops Production	
Electives	3	Electives	4
	<u>16</u>		<u>16</u>

FLORICULTURE

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
101 Horticulture	2	1 Entomology	3
Plant Propagation		Applied Entomology	
1 Botany	5	2 Mathematics	3
General Botany		Elementary Mathematics	
1 Horticulture	3	109 Horticulture	3
General Horticulture		General Floriculture	
1 Military	1	110 Horticulture	3
Required Course		Elementary Landscape Gardening	
1 Physical Education	1	2 Military	1
Required Course		Required Course	
		2 Physical Education	1
		Required Course	
	<hr style="width: 50px; margin: 0 auto;"/> 15		<hr style="width: 50px; margin: 0 auto;"/> 17

Second Year

2 Geology	3	130 Horticulture	2
Physical Geology		Plant Forcing Structures	
1 Chemistry	5	25 Soils	5
General Inorganic Chemistry		Soils	
310 Horticulture	3	15 Chemistry	3
Greenhouse Management - Principles and Practices		Organic Chemistry	
3 Military	1	4 Military	1
Required Course		Required Course	
5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
Electives	3	Electives	4
	<hr style="width: 50px; margin: 0 auto;"/> 16		<hr style="width: 50px; margin: 0 auto;"/> 16

Third Year

114 Horticulture	3	321 Horticulture	3
Ornamental Trees		Commercial Floriculture: Plants	
37 Accounting	4	116 Horticulture	3
Accounting I		Ornamental Shrubs and Vines	
320 Horticulture	3	10 Botany	3
Commercial Floriculture: Cut- Flower Crops		Elementary Taxonomy	
202 Botany	3	50 Agricultural Economics	*2
General Bacteriology		Advanced Agricultural Economics	
1 Agricultural Economics	3*	203 Botany	5
Agricultural Economics		Plant Physiology	
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Fourth Year

301 Botany	3	313 Horticulture	3
Plant Pathology		Spraying	
1 Political Science	5	315 Horticulture	3
American Government <u>OR</u>		Improvement of Horticultural Plants	
20 History	5	Electives	10
American History			
75 Speech	3		
Public Speaking			
Electives	5		
	<hr style="width: 50px; margin: 0 auto;"/> 16		<hr style="width: 50px; margin: 0 auto;"/> 16

*51 Economics (5) may be substituted for Agricultural Economics 1 (3) and Agricultural Economics 50 (2).

GENERAL HORTICULTURE

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Botany	5	*2 Mathematics	3
General Botany		Elementary Mathematics	
1 Agricultural Economics	3	50 Agricultural Economics	2
Agricultural Economics		Advanced Agricultural Economics	
1 Entomology	3	1 Horticulture	3
Applied Entomology		General Horticulture	
1 Physical Education	1	1 Agricultural Engineering	3
Required Course		Farm Power and Machinery	
1 Military	1	2 Physical Education	1
Required Course		Required Course	
		2 Military	1
		Required Course	
	<hr style="width: 20%; margin: 0 auto;"/> 16		<hr style="width: 20%; margin: 0 auto;"/> 16

Second Year

2 Geology	3	25 Soils	5
Physical Geology		Soils	
1 Chemistry	5	144 Horticulture	3
General Inorganic Chemistry		Vegetable Gardening	
6 Horticulture	3	109 Horticulture	3
Elementary Landscape Gardening		General Floriculture	
101 Horticulture	2	15 Chemistry	3
Plant Propagation		Elementary Organic Chemistry	
5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
3 Military	1	4 Military	1
Required Course		Required Course	
	<hr style="width: 20%; margin: 0 auto;"/> 15		<hr style="width: 20%; margin: 0 auto;"/> 16

Third Year

301 Horticulture	3	203 Botany	5
General Pomology		Plant Physiology	
1 Political Science		313 Horticulture	3
American Government <u>OR</u>		Spraying	
20 History	5	315 Horticulture	3
American History		Improvement of Horticultural Plants	
305 Horticulture	3	75 Speech	3
Systematic Horticulture		Public Speaking	
314 Horticulture	3	312 Entomology	3
Commercial Pomology		Orchard, Garden, and Greenhouse	
202 Botany	3	Insects	
General Bacteriology			
	<hr style="width: 20%; margin: 0 auto;"/> 17		<hr style="width: 20%; margin: 0 auto;"/> 17

Fourth Year

344 Horticulture	3	302 Horticulture	3
Commercial Vegetable and Truck		Advanced Pomology	
Crop Growing		301 Botany	3
266 Journalism	3	Plant Pathology	
The Agricultural Press		410 Horticulture	1
354 Economics and Business	3	Seminar	
Business Law A		Electives	9
410 Horticulture	1		
Seminar			
301 Soils	3		
Soil Fertility			
240 Agricultural Economics	3		
General Agricultural Marketing			
	<hr style="width: 20%; margin: 0 auto;"/> 16		<hr style="width: 20%; margin: 0 auto;"/> 16

*Students will be excused from Mathematics 2 if they pass a qualifying examination.

HORTICULTURE

(Suggested Selection of Courses)

For students planning graduate work in horticulture

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Botany	5	1 Chemistry	5
General Botany		General Inorganic Chemistry	
1 Horticulture	3	*2 Mathematics	3
General Horticulture		Elementary Mathematics	
1 Agricultural Economics	3	50 Agricultural Economics	2
Agricultural Economics		Advanced Agricultural Economics	
1 Military	1	2 Military	1
Required Course		Required Course	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
	<u>16</u>		<u>15</u>

Second Year

2 Geology	3	25 Soils	5
Physical Geology		Soils	
1 Entomology	3	210 Chemistry	5
Applied Entomology		Organic Chemistry	
25 Chemistry	5	7 Mathematics	3
Analytical Chemistry		Introductory Course	
202 Botany	3	4 Military	1
General Bacteriology		Required Course	
3 Military	1	6 Physical Education	1
Required Course		Required Course	
5 Physical Education	1	101 Horticulture	2
Required Course		Plant Propagation	
	<u>16</u>		<u>17</u>

Third Year

301 Horticulture	3	144 Horticulture	3
General Pomology		Vegetable Gardening	
266 Journalism	3	75 Speech	3
The Agricultural Press		Public Speaking	
1 Physics	5	2 Physics	3
Elementary College Physics		Elementary College Physics	
1 Political Science		14 Mathematics	5
American Government <u>OR</u>		Elementary Analysis	
20 History	5	315 Horticulture	3
American History		Improvement of Horticultural Plants	
	<u>16</u>		<u>17</u>

Fourth Year

325 Agricultural Economics	3	302 Horticulture	3
Elementary Agricultural Statistics		Advanced Pomology	
301 Botany	3	203 Botany	5
Plant Pathology		Plant Physiology	
410 Horticulture	1	313 Horticulture	3
Seminar		Spraying	
Electives (Agriculture)	9	410 Horticulture	1
		Seminar	
	<u>16</u>	Electives (Horticulture)	3
			<u>15</u>

Students will be excused from Mathematics 2 if they pass a qualifying examination.

LANDSCAPE NURSERY

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Botany	5	2 Mathematics	3
General Botany		Elementary Mathematics	
1 Entomology	3	5 Art	2
Applied Entomology		Theory of Drawing	
110 Horticulture	3	114 Horticulture	3
Landscape Gardening		Landscape Drafting	
1 Physical Education	1	2 Geography	3
Required Course		Physical Geography	
1 Military	1	2 Physical Education	1
Required Course		Required Course	
		2 Military	1
		Required Course	
	<hr style="width: 10%; margin: 0 auto;"/> 16		<hr style="width: 10%; margin: 0 auto;"/> 16

Second Year

10 Botany	3	116 Horticulture	3
Taxonomy		Ornamental Shrubs and Vines	
120 Horticulture	3	25 Soils	5
Landscape Construction		Soils	
112 Horticulture	3	122 Horticulture	3
History of Landscape Architecture		Landscape Design I	
101 Horticulture	2	1 Agricultural Economics	3
Plant Propagation		Agricultural Economics	
75 Speech	3	6 Mathematics	2
Public Speaking		Solid Geometry	
5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
3 Military	1	4 Military	1
Required Course		Required Course	
	<hr style="width: 10%; margin: 0 auto;"/> 16		<hr style="width: 10%; margin: 0 auto;"/> 18

Third Year

9 Mathematics	2	1 Physics	5
Trigonometry		Elementary College Physics	
1 Chemistry	5	109 Horticulture	3
General Inorganic Chemistry		General Floriculture	
304 Economics and Business	3	20 Civil Engineering	3
Principles of Marketing		Engineering Surveys	
114 Horticulture	3	124 Horticulture	3
Ornamental Trees		Landscape Design II	
50 Agricultural Economics	2	203 Agricultural Engineering	3
Agricultural Economics		Farm Buildings	
	<hr style="width: 10%; margin: 0 auto;"/> 15		<hr style="width: 10%; margin: 0 auto;"/> 17

Fourth Year

20 History	5	312 Horticulture	3
American History		Advanced Landscape Design	
301 Botany	3	300 Horticulture	3
Plant Pathology		Special Problems	
21 Agricultural Engineering	3	212 Civil Engineering	4
Land Surveys		Route Surveys	
1 Agricultural Engineering	3	20 Art	3
Farm Power and Machinery		The Art of America	
55 Forestry	2	117 Horticulture	3
Forest Cartography		Nursery Management	
	<hr style="width: 10%; margin: 0 auto;"/> 16		<hr style="width: 10%; margin: 0 auto;"/> 16

POULTRY HUSBANDRY

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Poultry Husbandry	3	20 History	
Poultry Production		American History <u>OR</u>	
1 Agricultural Engineering	3	1 Political Science	5
Farm Power and Machinery		American Government	
1 Field Crops	3	1 Zoology	5
Field Crops		General Zoology	
2 Mathematics	3	1 Veterinary Science	3
Elementary Mathematics		General Veterinary Science	
1 Military	1	2 Military	1
Required Course		Required Course	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
	<u>17</u>		<u>18</u>

Second Year

301 Poultry Husbandry	3	202 Poultry Husbandry	3
Marketing Poultry Products		Incubation and Brooding	
1 Chemistry	5	202 Botany	3
General Inorganic Chemistry		Bacteriology	
75 Speech	3	202 Animal Husbandry	3
Public Speaking		Animal Breeding	
1 Agricultural Economics	3	15 Chemistry	3
Agricultural Economics		Organic Chemistry	
3 Military	1	1 Physics	5
Required Course		Elementary College Physics	
5 Physical Education	1	4 Military	1
Required Course		Required Course	
Electives	3	6 Physical Education	1
	<u>19</u>	Required Course	
			<u>19</u>

Third Year

201 Poultry Husbandry	3	302 Poultry Husbandry	3
Poultry Judging		Poultry Farm Management	
201 Animal Husbandry	3	207 Veterinary Science	3
Animal Nutrition		Poultry Sanitation and Disease Prevention	
50 Agricultural Economics	2	2 Geology	3
Advanced Agricultural Economics		Physical Geology	
210 Agricultural Chemistry	5	303 Poultry Husbandry	3
General Agricultural Chemistry		Advanced Poultry Production	
Electives	3	Electives	3
	<u>16</u>		<u>15</u>

Fourth Year

305 Poultry Husbandry	3	304 Poultry Husbandry	3
Hatchery Management		Turkey Production	
25 Soils	5	100 Field Crops	2
Soils		Field Crops Management	
Electives	8	Electives	11
	<u>16</u>		<u>16</u>

RURAL SOCIOLOGY

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
1 Military	1	2 Military	1
Required Course		Required Course	
1 Zoology	5	2 Mathematics	3
General Zoology		Elementary Mathematics	
1 Field Crops	3	1 Chemistry	5
Field Crops		General Inorganic Chemistry	
1 Animal Husbandry	3	1 Poultry	3
Animal Husbandry		Poultry Husbandry	
	<u>16</u>		<u>16</u>

Second Year

2 Geology	3	1 Horticulture	3
Physical Geology		General Horticulture	
5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
3 Military	1	4 Military	1
Required Course		Required Course	
75 Rural Sociology	3	1 Psychology	3
Rural Sociology		General Psychology	
1 Political Science		100 Rural Sociology	3
American Government <u>OR</u>		Group Organization	
20 History	5	25 Soils	5
American History		Soils	
Electives (Science or Mathematics)	<u>3</u>		
	<u>16</u>		<u>16</u>

Third Year

1 Agricultural Economics	3	1 Dairy Husbandry	3
Agricultural Economics		Dairy Husbandry	
15 Chemistry	3	50 Agricultural Economics	2
Organic Chemistry		Advanced Agricultural Economics	
225 Rural Sociology	2	320 Rural Sociology	3
Group Leadership		The Farm Population	
210 Agricultural Chemistry	5	326 Sociology	3
General Agricultural Chemistry		Cultural Anthropology	
Electives (Agriculture)	<u>3</u>	Electives (Agriculture)	<u>5</u>
	<u>16</u>		<u>16</u>

Fourth Year

314 Sociology	3	Electives	5
The Family		340 Rural Sociology	3
Electives (Agriculture)	7	Rural Community	
Electives	6	150 Psychology	3
		Social Psychology	
		Electives (Agriculture)	<u>5</u>
	<u>16</u>		<u>16</u>

SOIL CONSERVATION, SOIL SURVEY, AND LAND APPRAISAL

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
2 Mathematics	3	9 Mathematics	2
Elementary Mathematics		Trigonometry	
1 English	3	10 Mathematics	3
Composition and Rhetoric		Algebra	
1 Geology	5	2 English	3
Principles of Geology		Composition and Rhetoric	
1 Political Science		1 Botany	5
American Government <u>OR</u>		General Botany	
20 History	5	1 Field Crops	3
American History		Field Crops	
1 Military	1	2 Military	1
Required Course		Required Course	
1 Physical Education	1	2 Physical Education	1
Required Course		Required Course	
	<u>18</u>		<u>18</u>

Second Year

1 Chemistry	5	2 Chemistry	3
General Inorganic Chemistry		General Inorganic Chemistry	
1 Physics	5	1 Agricultural Engineering	3
Elementary College Physics		Farm Power and Machinery I	
1 Horticulture	3	1 Agricultural Economics	3
General Horticulture		Agricultural Economics	
1 Animal Husbandry	3	202 Botany	3
Animal Husbandry		General Bacteriology	
3 Military	1	75 Rural Sociology	3
Required Course		Rural Sociology	
5 Physical Education	1	4 Military	1
Required Course		Required Course	
	<u>18</u>	6 Physical Education	1
		Required Course	
			<u>17</u>

Third Year

15 Chemistry	3	25 Chemistry	5
Elementary Organic Chemistry		Analytical Chemistry	
10 Agricultural Engineering	3	203 Botany	5
Farm Shop Work		Plant Physiology	
100 Field Crops	2	221 Agricultural Engineering	3
Field Crops Management		Erosion Control	
50 Agricultural Economics	2	101 Soils	3
Advanced Agricultural Economics		Soil Management	
25 Soils	5		
Soils			
	<u>15</u>		<u>16</u>

Fourth Year

230 Chemistry	3	308 Soils	3
Physical Chemistry		Soil Conservation	
410 Soils	1	101 Field Crops	3
Seminar		Field Crops Improvement	
408 Horticulture	3	301 Soils	3
Nutrition of Horticultural Plants		Soil Fertility	
231 Agricultural Engineering	2	102 Soils	3
Farm Water Management		Soil Surveying and Land Appraisal	
210 Agricultural Chemistry	5	360 Agricultural Economics	2
General Agricultural Chemistry		Land Economics	
	<u>14</u>		<u>14</u>

SOILS RESEARCH AND COLLEGE TEACHING

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
2 Mathematics	5	9 Mathematics	2
Introductory Course		Trigonometry	
1 English	3	10 Mathematics	3
Composition and Rhetoric		College Algebra	
1 Field Crops	3	2 English	3
Field Crops		Composition and Rhetoric	
1 Chemistry	5	2 Chemistry	3
General Inorganic Chemistry		General Inorganic Chemistry	
1 Military	1	1 Botany	5
Required Course		General Botany	
1 Physical Education	1	2 Military	1
Required Course		Required Course	
		2 Physical Education	1
		Required Course	
	<hr style="width: 50%; margin: 0 auto;"/> 18		<hr style="width: 50%; margin: 0 auto;"/> 18

Second Year

11 Mathematics	5	25 Mathematics	5
Analytic Geometry		Differential Calculus	
27 Chemistry	3	221 Chemistry	3
Qualitative Analysis		Quantitative Chemical Analysis	
210 Chemistry	5	1 Agricultural Economics	3
Organic Chemistry		Agricultural Economics	
1 Animal Husbandry	3	1 Political Science	
Animal Husbandry		American Government <u>OR</u>	
3 Military	1	20 History	5
Required Course		American History	
5 Physical Education	1	4 Military	1
Required Course		Required Course	
		6 Physical Education	1
		Required Course	
	<hr style="width: 50%; margin: 0 auto;"/> 18		<hr style="width: 50%; margin: 0 auto;"/> 18

Third Year

201 Mathematics	5	25 Soils	5
Integral Calculus		Soils	
231 Chemistry	3	210 Agricultural Chemistry	5
Physical Chemistry		General Agricultural Chemistry	
232 Chemistry	2	203 Botany	5
Advanced Physical Chemistry		Plant Physiology	
1 Geology	5	202 Botany	3
Principles of Geology		General Bacteriology	
50 Agricultural Economics	2		
Advanced Agricultural Economics			
	<hr style="width: 50%; margin: 0 auto;"/> 17		<hr style="width: 50%; margin: 0 auto;"/> 18

Fourth Year

101 Soils	3	301 Soils	3
Soil Management		Soil Fertility	
102 Soils	3	308 Soils	3
Soil Survey and Land Appraisal		Soil Conservation	
1 Agricultural Engineering	3	231 Agricultural Engineering	2
Farm Power and Machinery I		Farm Water Management	
221 Agricultural Engineering	3	307 Soils	5
Erosion Control		Physical Properties of Soils	
101 Field Crops	3	201 Animal Husbandry	3
Field Crops Improvement		Principles of Animal Nutrition	
100 Field Crops	2		
Field Crops Management			
	<hr style="width: 50%; margin: 0 auto;"/> 17		<hr style="width: 50%; margin: 0 auto;"/> 16

GENERAL WILDLIFE MANAGEMENT

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
2 Mathematics		5 Zoology	3
Elementary Mathematics <u>OR</u>		Ornithology	
7 Mathematics	3	2 Geology	3
Introduction to College Algebra		Physical Geology	
1 Zoology	5	1 Field Crops	3
General Zoology		Field Crops	
1 Political Science		1 Veterinary Science	3
American Government <u>OR</u>		General Veterinary Science	
20 History	5	2 Military	1
American History		Required Course	
1 Military	1	2 Physical Education	1
Required Course		Required Course	
1 Physical Education	1		
Required Course			
	<hr style="width: 50%; margin: 0 auto;"/> 18		<hr style="width: 50%; margin: 0 auto;"/> 17

Second Year

1 Botany	5	1 Chemistry	5
General Botany		General Inorganic Chemistry	
6 Zoology	3	201 Botany	3
Principles of Wildlife Conservation		Taxonomy	
1 Agricultural Engineering	3	120 Zoology	3
Farm Power and Machinery I		Invertebrate Zoology	
100 Field Crops	2	58 Forestry	2
Field Crops Management		Dendrology	
1 Agricultural Economics	3	50 Agricultural Economics	2
Agricultural Economics		Advanced Agricultural Economics	
3 Military	1	4 Military	1
Required Course		Required Course	
5 Physical Education	1	6 Physical Education	1
Required Course		Required Course	
	<hr style="width: 50%; margin: 0 auto;"/> 18		<hr style="width: 50%; margin: 0 auto;"/> 17

Third Year

306 Botany	3	305 Zoology	3
Plant Ecology		Animal Ecology	
75 Speech	3	311 Zoology	3
Public Speaking		Ichthyology	
309 Zoology	3	75 Rural Sociology	3
Mammalogy		Rural Sociology	
25 Soils	5	59 Forestry	3
Soils		Silviculture	
350 Forestry	3	60 English	3
Farm Forestry		Exposition	
	<hr style="width: 50%; margin: 0 auto;"/> 17	Electives (Agriculture)	1
			<hr style="width: 50%; margin: 0 auto;"/> 16

Fourth Year

310 Botany	3	203 Botany	
Aquatic		Plant Physiology <u>OR</u>	
102 Soils		201 Physiology	5
Soil Survey <u>OR</u>		Elements of Physiology	
204 Soils	3	Electives (Agriculture)	11
Soils and Land Use			
325 Agricultural Economics	3		
Agricultural Statistics			
310 Zoology	3		
Parasitology			
Electives (Agriculture)	4		
	<hr style="width: 50%; margin: 0 auto;"/> 16		<hr style="width: 50%; margin: 0 auto;"/> 16

FRESHWATER AND FISHERIES MANAGEMENT

(Suggested Selection of Courses)

First Year

First Semester

Hours

Second Semester

Hours

(same as General curriculum)

Second Year

(same as General curriculum)

Third Year

306 Botany	3	305 Zoology	3
Plant Ecology		Animal Ecology	
75 Speech	3	311 Zoology	3
Public Speaking		Ichthyology	
309 Zoology	3	75 Rural Sociology	3
Mammalogy		Rural Sociology	
25 Soils	5	60 English	3
Soils		Exposition	
Electives (Agriculture)	2	1 Physics	5
		Elementary College Physics	
	<hr/>		<hr/>
	16		17

Fourth Year

310 Zoology	3	15 Chemistry	3
Parasitology		Organic Chemistry	
310 Botany	3	203 Botany	
Aquatic Botany		Plant Physiology OR	
25 Chemistry	5	201 Physiology	5
Analytical Chemistry		Elements of Physiology	
325 Agricultural Economics	3	Electives (Agriculture)	9
Agricultural Statistics			
Electives (Agriculture)	<u>2</u>		
	<hr/>		<hr/>
	16		17

The MISSOURI COLLEGE FARMER is managed and edited by students enrolled in the College of Agriculture.



B. Curriculum for Training Teachers of Vocational Agriculture

The College of Agriculture with the collaboration of the College of Education offers this course to prepare teachers of vocational agriculture for the secondary schools of this State. The course gives thorough and practical training in agriculture and in education, including instructional procedures and student teaching in vocational agriculture.

The requirements in this course of study are as follows:

1. One hundred twenty-eight hours and 128 points are required for graduation.
2. Sixty hours in residence are required, 48 of which must be in agriculture.
3. Sixty hours of agriculture and 25 hours of science and mathematics are required.
4. In order to teach vocational agriculture in Missouri High Schools three years of farm experience after reaching the age of fourteen (or having been reared on the farm) are required.
5. The following groups and courses are required:

<i>Technical Agriculture</i>	<i>Courses Required</i>	<i>Hours to be Elected</i>	<i>Total Hours Required</i>
Agricultural Economics ...	1 (3), 310 (3)	3	9
Agricultural Engineering ..	1 (3), 10 (3)	3	9
Animal Husbandry	1 (3), 201 (3), 202* (3)		9
Dairy	1 (3)		3
Entomology	1 (3)		3
Field Crops	1 (3), 100 (2)		5
Horticulture	1 (3)		3
Poultry	1 (3)		3
Rural Sociology		3	3
Soils	25 (5)		5
Veterinary Science	1 (3)		3
	46	9	55

Additional work must be elected to meet requirements of 60 hours of agriculture.

<i>Science and Mathematics</i>	<i>Courses Required</i>	<i>Hours to be Elected</i>	<i>Total Hours Required</i>
Botany or Zoology	Pot. 1 (5), or Zool. 1 (5)		5
Chemistry	1 (5), 15 (3)		8
Geology	2 (3)		3
Mathematics	(3)**		3
			19

Students must elect additional courses to bring total credits in science and mathematics to 25 hours.

*Field Crops 301 or Horticulture 315 may be substituted for Animal Husbandry 202.

**Persons passing exemption test may apply other credit to 25 hours in science and mathematics.

<i>Areas Other Than</i>		<i>Hours to be</i>	<i>Total Hours</i>
<i>Agriculture and Science</i>	<i>Courses Required</i>	<i>Elected</i>	<i>Required</i>
Agricultural Education	F100, F105, F107 F120, F156		15
Education	A102, D140		5
English	1 (3), 2 (3)		6
History	History 20 (5) or Political Science 1 (5)		5
Military or Naval Science . .			4
Physical Education			4
Speech	75 (3)		3
			—
			42

C-1 Curriculum in Home Economics

The curriculum as outlined below is designed to meet the needs of students who wish to apply their knowledge of Home Economics to problems in homemaking, extension work, social service, textiles and clothing, foods, and in various fields of industry. Completion of the 4-year curriculum leads to the degree of Bachelor of Science in Home Economics.

Requirements for Graduation

1. Satisfactory completion of 124 hours and 124 points.
2. The completion of the following courses:

	<i>Hours</i>
English 1 and 2, Composition and Rhetoric	6
Mathematics 2, Elementary Mathematics	3
(Students may be excused from this Mathematics course upon the satisfactory completion of a special examination covering the subject matter of the course.)	
Political Science 1, American Government } or History 20, American History }	5
Physical science	5
(Astronomy, chemistry, geology, physics)	
Biological science	8
(Botany, psychology, zoology)	
Social studies, at least two	8
(Economics, geography, history, political science, sociology)	
Humanities, at least two	8
(Literature, speech, philosophy, fine arts)	
Home Economics	50
(Including at least 40 hours in residence)	
Physical Education	4

3. At least 60 hours must be completed in residence.
4. Advisers for students in this curriculum are appointed by the Dean's Office, after consultation with the student.
5. All registration programs and changes in courses must be approved by the adviser, and final approval of the entire program as

qualifying the student for a given objective.

C. Curriculum in Home Economics

The curriculum as outlined below is designed to meet the needs of students who wish to apply their knowledge of home economics to problems in dietetics or in the various fields of industry. Completion of the 4-year curriculum leads to the degree of Bachelor of Science in Home Economics. At least 60 hours in residence must be completed. A total of 50 hours in Home Economics is required, 40 hours of which must be in residence.

Courses Required

	<i>Hours</i>
Home Economics 10, Personal and Family Relationships	2
Home Economics 15, Design	2
Home Economics 16, Advanced Design	2
*Home Economics 31, Selection and Preparation of Food	5
Home Economics 50, Textiles and Clothing	3
Home Economics 160, Home Care and Training of Children	3
English, Composition and Rhetoric	6
**Mathematics 2, Elementary Mathematics	3
Botany 1 (5), General Botany	}
or	
Zoology 1 (5), General Zoology	5
Botany 202, General Bacteriology	3
Chemistry 1, General Inorganic	5
Economics 51, General Economics	5
Sociology 1, General Sociology	3
Psychology or Educational Psychology	3
Physiology 201, Elements of Physiology	5
Chemistry 15, Elementary Organic	3
Political Science 1, American Government	}
or	
History 20, American History	5
Physical Education	4
Home Economics 127, Food Buying and Meal Service	3
***Home Economics 131, Chemistry of Food and Its Utilization	3
Home Economics 150, Buying of Clothing and Textiles	3
Home Economics 317, Economic Problems of the Family	3
***Home Economics 222, Dietetics	4
Sociology or History, (Elective Course)	3
English or Speech, (Elective Course)	2
Home Economics Electives	17
Free Electives	19
Total	124

*Students specializing in Textiles and Clothing may substitute Home Economics 2, Foods (3 hrs.) and Home Economics 130, Food in Relation to Health (3 hrs.), for Home Economics 31.

**Students may be excused from this course upon the satisfactory completion of an examination covering the subject matter of the course.

***Students specializing in Textiles and Clothing may substitute other Home Economics courses.

Students specializing in Textiles and Clothing will be permitted to substitute courses other than home economics up to a maximum of 10 hours for home economics electives upon recommendation of the student's adviser and approval of the Dean.

A special announcement describing in more detail the various opportunities in Home Economics will be sent upon request. Write the Dean's Office, College of Agriculture, Mumford Hall, Columbia, Mo.

D. Curriculum in Agricultural Journalism

The College of Agriculture, cooperating with the School of Journalism, offers a curriculum in agricultural journalism. The purpose of this course is to train men and women for successful service in the field of agricultural journalism. An effort is made to give the student a broad foundation in the subject of agriculture, and a knowledge of the principles and practices of journalism, with particular emphasis on agricultural journalism.

The degree of Bachelor of Science in Agriculture (in Agricultural Journalism) will be given to students registered in the College of Agriculture who complete all of the requirements in the curriculum and electives to make a total of one hundred twenty-eight hours.

Students in this curriculum must complete the requirements of Curriculum A, the general course in agriculture, except that Journalism 100, 101, 105, 110, 111, 120, 266, and journalism electives to make a total of at least thirty hours in Journalism are substituted for Botany 202; Agricultural Chemistry 210; Physics 1, or College Mathematics; and the thirty hours of free electives listed under Curriculum A.

A suggested arrangement of courses follows.

Entrance to the South Farms. Approximately 2000 acres near Columbia are available for research and instruction.



AGRICULTURAL JOURNALISM

(Suggested Selection of Courses)

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Animal Husbandry	3	1 Chemistry	5
Animal Husbandry		General Inorganic Chemistry	
1 Botany		1 Poultry Husbandry	3
General Botany <u>OR</u>		Poultry Production	
1 Zoology	5	1 Horticulture	3
General Zoology		General Horticulture	
2 Mathematics	3	2 Military	1
Elementary Mathematics		Required Course	
1 Military	1	2 Physical Education	1
Required Course		Required Course	
1 Physical Education	1		
Required Course			
	<hr style="width: 50px; margin: 0 auto;"/> 16		<hr style="width: 50px; margin: 0 auto;"/> 16

Second Year

1 Agricultural Economics	3	1 Dairy Husbandry	3
Agricultural Economics		Dairy Production	
1 Field Crops	3	15 Chemistry	3
Field Crops		Elementary Inorganic Chemistry	
2 Geology	3	1 Agricultural Engineering	3
Physical Geology		Farm Power and Machinery	
20 History		1 Veterinary Science	3
American History <u>OR</u>		General Veterinary Science	
1 Political Science	5	4 Military	1
American Government		Required Course	
3 Military	1	6 Physical Education	1
Required Course		Required Course	
5 Physical Education	1	Electives (Agriculture).	2
Required Course			
	<hr style="width: 50px; margin: 0 auto;"/> 16		<hr style="width: 50px; margin: 0 auto;"/> 16

Third Year

75 Rural Sociology	3	1 Entomology	3
Rural Sociology		Applied Entomology	
201 Animal Husbandry	3	100 Field Crops	2
Principles of Animal Nutrition		Field Crops Management	
100 Journalism	3	101 Field Crops	3
History and Principles of		Field Crops Improvement	
Journalism I		101 Journalism	3
105 Journalism	3	History and Principles of	
News Writing		Journalism II	
25 Soils	5	Electives (Journalism).	3
Soils		Electives (Agriculture).	3
	<hr style="width: 50px; margin: 0 auto;"/> 17		<hr style="width: 50px; margin: 0 auto;"/> 17

Fourth Year

110 Journalism	2	111 Journalism	2
Copyreading I		Copyreading II	
120 Journalism	3	266 Journalism	
Advertising Principles and		The Agricultural Press <u>OR</u>	
Practice		360 Journalism	3
Electives (Journalism).	5	Feature and Special Articles	
Electives (Agriculture).	6	Electives (Agriculture).	6
	<hr style="width: 50px; margin: 0 auto;"/> 16	Electives (Journalism).	3
			<hr style="width: 50px; margin: 0 auto;"/> 14

E. Curriculum in Forestry

The following Curriculum in Forestry is offered for those who desire the full four year course of training in Forestry. The completion of the following list of subjects will satisfy the requirements for the degree Bachelor of Science in Forestry:

1. The satisfactory completion of 140 hours and 140 points.
2. At least 60 hours of the required 140 hours must be completed in residence, 40 hours of which must be in forestry.
3. Electives in the forestry curriculum must be approved by the student's adviser.
4. The completion of the following courses:

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
*7 Mathematics	3	9 Mathematics	2
Algebra		Trigonometry	
1 Botany	5	55 Forestry	2
General Botany		Cartography	
50 Forestry	3	1 Zoology	5
General Forestry		General Zoology	
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Military	1	10 Botany	3
Required Course		Taxonomy	
1 Physical Education	1	2 Military	1
Required Course		Required Course	
	16	2 Physical Education	1
		Required Course	
			17

Second Year

1 Chemistry	5	58 Forestry	2
General Inorganic Chemistry		Dendrology (Hardwoods)	
51 Economics		21 Agricultural Engineering	3
General Economics <u>OR</u>		Land Surveying	
Agricultural Economics <u>AND</u>		15 Chemistry	3
50 Agricultural Economics	5	Elementary Organic Chemistry	
Advanced Agricultural Economics		25 Soils	5
57 Forestry	2	Soils	
Dendrology (Softwoods)		59 Forestry	2
60 Forestry	1	Foundation of Silviculture	
Forestry Reports		4 Military	1
2 Geology	3	Required Course	
Physical Geology		6 Physical Education	1
3 Military	1	Required Course	
Required Course			
5 Physical Education	1		
Required Course			
	18		17

*All students must meet the Mathematics 2 requirement of the College of Agriculture. This may be done either by passing an examination arranged by the Dean of The College or by successful completion of Mathematics 2. Students who have had less than two units of high school mathematics will find it advantageous to register in Mathematics 2. If a student has had three or more units of mathematics in high school, he should register in Mathematics 10 instead of Mathematics 7.

Third Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
156 Forestry	3	160 Forestry	3
Forest Mensuration		Wood Technology	
301 Forestry	3	161 Forestry	3
Practice of Silviculture		Forest Economics	
75 Rural Sociology	3	310 Entomology	3
Rural Sociology		Forest Insects	
163 Forestry	3	75 Speech	3
Logging and Milling		Public Speaking	
Electives	3	Electives	3
	<u>15</u>		<u>15</u>

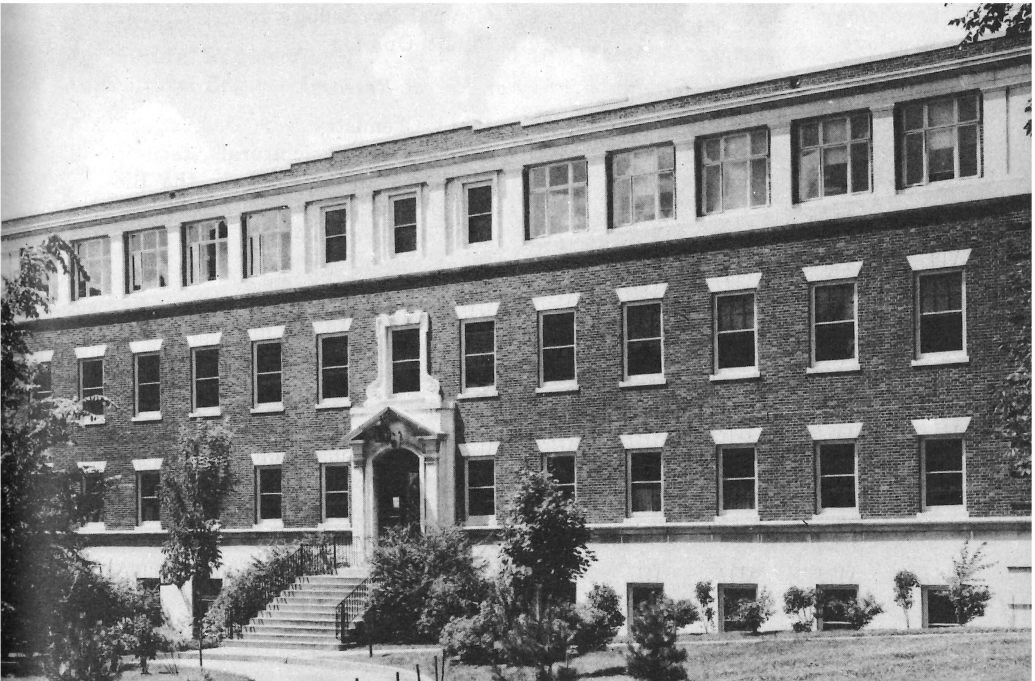
Fourth Year

315 Forestry	3	158 Forestry	2
Forest Management		Forest Policy	
157 Forestry	3	191 Forestry	3
Forest Protection		Forest Products	
312 Botany	3	Electives	8
Forest Pathology			
1 Political Science	5		
American Government			
Electives	3		
	<u>17</u>		<u>13</u>

Summer Camp

70 Forestry -----	Forest Measurements	4
71 Forestry -----	Silvics	2
72 Forestry -----	Field Dendrology	1
74 Forestry -----	Silviculture	2
75 Forestry -----	Forest Utilization	2
76 Forestry -----	Forest Improvement	1
		<u>12</u>

THE STUDENT HEALTH SERVICE has medical facilities to accommodate students enrolled in the University.



The electives which are available in the forestry curriculum are designed to allow each student to emphasize the phase of forestry work in which he is particularly interested. All electives should be chosen from the seven groups listed below. Credit will not be granted in courses which are not included in this list. The general electives are for the purpose of broadening the individual's training in certain fundamental subjects. The six specific groups, graduate study or forest research, forest land management, forest wildlife management, forest recreation and municipal forestry, forest utilization, and business aspects of forestry are designed to allow the student to emphasize a specific phase of forestry work.

<i>Department</i>	<i>Course Number</i>	<i>Name</i>	<i>Credit Hours</i>
<i>General Electives</i>			
Accounting and Statistics	37	Elementary Accounting	4
Economics and Business	354	Business Law A	3
Economics and Business	355	Business Law B	3
Geology and Geography	6	Introductory Geography	3
Geology and Geography	125	Economic Geography	3
Geology and Geography	142	Introductory Meteorology	3
History	1	Modern Civilization	3
History	20	American History	5
Philosophy	1	Elementary Logic	3
Philosophy	5	Introduction to Philosophy	3
Physics	1	Elementary College Physics	5
Physics	2	Elementary College Physics	3
Political Science	5	International Relations	3
Political Science	301	Local Rural Government	3
Psychology	1	General Psychology	3
Sociology	310	Public Opinion	2
<i>Graduate Study or Forest Research</i>			
Agricultural Chemistry	404	Plant Chemistry	3-5
Agricultural Economics	325	Elementary Agricultural Statistics	3
Agricultural Economics	415	Statistics for Students in the Biological Sciences	4
Botany	202	General Bacteriology	3
Botany	203	Plant Physiology	3
Botany	306	Plant Ecology	3
Chemistry	25	Analytical Chemistry	5
Chemistry	26	Qualitative Analysis	2
Chemistry	27	Qualitative Analysis	3
Chemistry	221	Quantitative Analysis	2
Chemistry	222	Quantitative Analysis	3
Physics	1	Elementary College Physics	5
Forestry	401	Research Methods in Silviculture	3
Forestry	402	Forest Finance	3
Forestry	403	Nutrition of Forest Trees	3

<i>Department</i>	<i>Course Number</i>	<i>Name</i>	<i>Credit Hours</i>
Forestry	410	Seminar	1
Forestry	413	Forest Influences	2
Forestry	414	Advanced Forest Mensuration	3
Forestry	415	Cost Control	2
<i>Forest Land Management</i>			
Forestry	155	Forest Nursery Management	3
Forestry	164	Timber Seasoning and Preservation	2
Forestry	190	Forest Recreation	2
Forestry	300	Special Problems	
Forestry	316	Forest Management Plans	3
Forestry	303	Range Management	2
Forestry	304	Applied Silviculture	3
Forestry	402	Forest Finance	3
Forestry	311	Forest Photogrammetry	2
Forestry	413	Forest Influences	2
Forestry	317	Management—Utilization Field Trip	2
Agricultural Economics	240	General Agricultural Marketing	3
Agricultural Economics	360	Land Economics	2
Botany	306	Plant Ecology	3
Economics and Business	336	Personnel Management	3
Geology and Geography	3	Interpretation of Maps and Aerial Photographs	1
Soils	102	Soil Surveying and Land Appraisal	3
Soils	204	Soils and Land Use in the U. S.	2
Soils	308	Soil Conservation	3
<i>Forest Wildlife Management</i>			
Forestry	155	Forest Nursery Management	3
Forestry	303	Range Management	2
Forestry	304	Applied Silviculture	3
Agricultural Engineering	221	Farm Water Management I	3
Agricultural Engineering	231	Farm Water Management II	3
Zoology	120	Invertebrate Zoology	3
Zoology	5	Ornithology	2-3
Zoology	6	Principles of Wildlife Conservation	3
Zoology	305	Animal Ecology	3
Zoology	309	Mammalogy	3
Zoology	311	Ichthyology	3
Zoology	415	Wildlife Management	3
Zoology	416	Wildlife Management	3
Zoology	418	Limnology	4
<i>Forest Recreation and Municipal Forestry</i>			
Forestry	155	Forest Nursery Management	3
Forestry	190	Forest Recreation	2
Landscape Gardening	6	Elementary Landscape Gardening	3
Landscape Gardening	104	Ornamental Horticulture, Shrubs and vines	3
Landscape Gardening	102	Elementary Landscape Design I	3

<i>Department</i>	<i>Course Number</i>	<i>Name</i>	<i>Credit Hours</i>
<i>Forest Utilization</i>			
Forestry	164	Timber Seasoning and Preservation	2
Forestry	312	Forest Products Marketing	2
Agricultural Economics	240	General Agricultural Marketing ..	3
Economics and Business	304	Principles of Marketing	3
Economics and Business	370	Market Analysis	3
Physics	1	Elementary College Physics	5

Business Aspects of Forestry

Forestry ...	402	Forest Finance	3
Forestry	312	Forest Products Marketing	2
Accounting and Statistics	317	Intermediate Accounting	3
Accounting and Statistics	319	Advanced Accounting	3
Accounting and Statistics	103	Accounting for Small Business ...	2
Economics and Business	303	Corporation Finance	3
Economics and Business	304	Principles of Marketing	3
Economics and Business	310	Labor Problems	5
Economics and Business	302	Industrial Management	4
Economics and Business	312	Marketing Management	4
Economics and Business	336	Personnel Management	3
Economics and Business	318	Property and Casualty Insurance .	3
Economics and Business	345	Industrial Organization and Control	3
Economics and Business	347	Wage and Salary Administration ..	2

The new VETERINARY CLINIC has facilities for both small and large animal surgery.



F and F-1 Curricula in Veterinary Science Leading to the Degree of Doctor of Veterinary Medicine (DVM)

Curricula F and F-1 are designed to provide a thorough education in veterinary medicine, thereby enabling students to follow any of the various phases of the veterinary profession. The requirements are as follows:

To obtain the degree Doctor of Veterinary Medicine (DVM), a student must pursue and complete a six year course of study—two years of preveterinary education (70 hours including military and physical education), and four years of a designated veterinary curriculum (150 hours), including two periods of three summer months spent with a practicing veterinarian. Totals of 220 hours and 220 points, including military and physical education, are required for graduation. A minimum of 70 hours of college credit, including military and physical education, 30 hours of which must be in residence in the College of Agriculture, is required for the pre-veterinary work. All of the listed pre-veterinary courses must be completed before a student will be admitted to the four year veterinary curriculum (Curriculum F-1). The following pre-veterinary courses are given in the College of Agriculture and other departments of the University.

TWO-YEAR PRE-VETERINARY CURRICULUM-F

First Year			
<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
1 English	3	2 English	3
Composition and Rhetoric		Composition and Rhetoric	
1 Political Science		1 Chemistry	5
American Government <u>OR</u>		General Inorganic Chemistry	
20 History	5	1 Animal Husbandry	3
American History		Animal Husbandry	
1 Zoology	5	1 Soils	3
General Zoology		Soils	
2 Mathematics	3	2 Military	1
Elementary Mathematics		Required Course	
1 Military	1	2 Physical Education	1
Required Course		Required Course	
1 Physical Education	1		
Required Course			
	<hr style="width: 50px; margin: 0 auto;"/> 18		<hr style="width: 50px; margin: 0 auto;"/> 16
Second Year			
15 Chemistry	3	1 Entomology	3
Organic Chemistry		Applied Entomology	
1 Agricultural Economics	3	50 Agricultural Economics	2
Agricultural Economics		Advanced Agricultural Economics	
1 Field Crops	3	201 Animal Husbandry	3
Field Crops		Animal Nutrition	
1 Dairy Husbandry	3	202 Animal Husbandry	3
Dairy Husbandry		Animal Breeding	
1 Poultry	3	Electives (Agriculture)	6
Poultry Production		4 Military	1
3 Military	1	Required Course	
Required Course		6 Physical Education	1
5 Physical Education	1	Required Course	
Required Course			
	<hr style="width: 50px; margin: 0 auto;"/> 17		<hr style="width: 50px; margin: 0 auto;"/> 19

FOUR-YEAR VETERINARY CURRICULUM F-I

First Year

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
11 Anatomy	7	111 Anatomy	7
Gross Anatomy		Gross Anatomy	
12 Anatomy	3	112 Anatomy	3
Histology		Histology	
315 Entomology	3	4 Animal Husbandry	3
Veterinary and Medical Entomology		Farm Meats	
Entomology	3	S13 Zootechnics	2
212 Agricultural Chemistry	5	Electives (Agriculture)	3
Physiological Chemistry			
	<u>18</u>		<u>18</u>

Second Year*

1 Physiology	5	2 Physiology	5
Ph 11		Ph 111	
1 Bacteriology	3	2 Bacteriology	5
B 11		B 111	
1 Pathology	5	2 Pathology	5
P 11		P 111	
Parasitology	5	Clinical Diagnosis	2
B 12		S 115	
		Ophthalmology & X-Ray	2
		S 17	
	<u>18</u>		<u>19</u>

Third Year*

Pathology	2	Pathology	2
Clinical Pathology P 121		Clinical Pathology P 131	
1 Clinic	4	2 Clinic	4
S 12		S 112	
1 Surgery	5	2 Surgery	5
S 11		S 111	
Pharmacology	3	Therapeutics	4
Ph 112		S 144	
Poultry Diseases	3	Meat Hygiene P 122	3
B 112		P 122	
Small Animal Diseases	3	360 Dairy Husbandry	2
S 123		Dairy Inspection	
	<u>20</u>		<u>20</u>

Fourth Year

3 Clinic	6	4 Clinic	6
S 122		S 132	
1 Infectious Diseases	3	2 Infectious Diseases	3
S 14		S 114	
1 Large Animal Diseases	3	2 Large Animal Diseases	3
S 125		S 135	
Small Animal Surgery	1	Obstetrics	5
S 121		S 134	
208 Botany	2	Post Mortem Technique	1
Poisonous Plants		P 14	
Applied Anatomy	3		
A 121			
Jurisprudence	1		
S 154			
	<u>19</u>		<u>18</u>

Unless otherwise indicated prerequisites for courses are the sequence in which they are listed in the four year veterinary curriculum.

*Each student is required to spend three summer months with a practicing veterinarian following the completion of the sophomore and junior courses.

Admission to the Four-Year Veterinary Curriculum

1. Students desiring admission to the four-year veterinary curriculum in September must have completed the pre-veterinary requirements by the preceding June 15.
2. Students must average "M" or better in the pre-veterinary work completed at the University of Missouri.
3. Students who were residents of the State of Missouri at the time of their first enrollment in the University of Missouri, and who have completed all their pre-veterinary work in the University of Missouri will be given preference.
4. Application for admission to the four-year veterinary course must be submitted to the Dean of the College of Agriculture on or before May 1, preceding the September when the student desires admission. Applicants will be notified of their acceptance or rejection by August 10.
5. The committee may require an examination of any applicant in any or all pre-veterinary subjects.
6. Livestock farm experience is considered desirable.
7. Selection from qualified applicants will be based on scholarship, personality, background, and adaptability to the profession.
8. Enrollment in the four-year veterinary curriculum is limited to not more than 30 new students each September. It is possible that more than 30 students may be qualified for admission, in which case some students cannot be admitted until the following year. Such applicants will be so notified.

G. Curriculum—Short Collegiate Curriculum

A suitable certificate will be awarded upon the satisfactory completion of 60 hours of college work, exclusive of the required courses in Military Science and Physical Training, 30 of which must be completed in the College of Agriculture. Six hours of English must be completed and students must complete the requirements in Military Science and Physical Education specified by the Board of Curators for all freshmen and sophomores. At least 30 hours must be in residence in the College of Agriculture. Combinations of courses may be selected with the help of an advisor permitting specialization in any of the many fields of agriculture. Advisors are prepared to aid students in the selection of such combinations. All courses satisfactorily completed in this curriculum will apply toward the requirements for any of the degrees offered by the University of Missouri College of Agriculture.

It is possible through these short collegiate curricula to prepare

students in a short time for employment in most of the technical fields of agriculture. It is true that students graduating under this course of study do not have the broad background provided those in the four year course but by limiting training to one specific field of endeavor, it is possible for students to prepare for valuable service in that field in a limited time. These courses of study may be of special value to returning veterans who do not wish to spend as much time in school as that required by the longer degree courses.

Many suggestions for two year courses are included in the preceding pages.

SHORT COURSES

Each year a number of Short Courses are offered by the College of Agriculture in response to demands for instruction in certain phases of Agriculture. Special announcements are published for these courses.

ADDITIONAL INFORMATION

Further information regarding any of the curricula offered by the College of Agriculture may be secured by writing the Office of the Dean, College of Agriculture, University of Missouri, 130 Mumford Hall, Columbia, Missouri.

NON-RESIDENT FEE

Students not residents of the State of Missouri will be required to pay a non-resident fee each semester. See general catalog of the University of Missouri.

COST

A complete statement regarding fees will be found in the general catalog of the University of Missouri. An estimate of minimum and average expenses for one semester for a resident of Missouri is as follows:

	Minimum	Average
Fees	\$ 52.00	\$ 62.00
Board	175.00	190.00
Room	56.00	84.00
Laundry and Cleaning	22.00	34.00
Books and Supplies	22.00	25.00
Miscellaneous	23.00	55.00
	<hr/>	<hr/>
Total	\$350.00	\$450.00

For additional information write:
 Dean's Office
 The University of Missouri
 College of Agriculture
 Columbia, Missouri

Agricultural Experiment Station

General Statement

The special function of the Agricultural Experiment Station is to conduct original research in the various branches of agriculture. The Station was established by the Act of Congress of 1887, and by the acts of the General Assembly of Missouri accepting its provisions. By an order of the Board of Curators of the University it was made a division of the College of Agriculture.

At this time investigations are in progress relating to the maintenance of soil fertility, the renovation of worn-out soil, rotation of crops, the adaptability of new plants to Missouri's soil and climate; shattering and fertilizing the subsoil; the most economical methods of beef and pork production; dairy production, dairy manufacturing; animal diseases, their prevention or cure; animal and plant breeding; the effects of changes in temperature and humidity on animal production in the Climatic Laboratory; food processing and storage; the propagation, selection, breeding and improvement of fruits and vegetables; tests of varieties of orchard and small fruits; insect pests and fungous diseases; poultry production; marketing; agricultural engineering; and nutrition.

In addition to these experiments conducted on the College grounds, the Station is making soil and crop tests on the principal soil types of the State. Preliminary to these tests and fundamental to all permanent improvements in the system of cropping and soil management, the Agricultural Experiment Station is making a systematic survey of the soils of the State, outlining and studying each type in detail. Approximately one half of the state has had a soil inventory, and more than 250 soil types have been established and studied.

The results of these investigations are published in the form of bulletins and annual reports, single copies of which are distributed free to all who make a request for them. Requests for Experiment Station publications should be made to DIRECTOR OF THE MISSOURI AGRICULTURAL EXPERIMENT STATION, Columbia, Missouri.

Agricultural Extension Service

General Statement

The Missouri Agricultural Extension Service is organized and administered for the specific purpose of disseminating information related to agriculture and home economics to the rural people of Missouri. It teaches both adults and young people—the latter through 4-H Clubs and older youth organizations which include both boys and girls. Recommendations made by the Agricultural Extension Service are based on the research findings of the Missouri College of Agriculture through its State Experiment Station and in the field.

Some objectives of extension work are to provide a more satisfying rural life for farm people by helping them to analyze their own situation, establish desirable objectives, recognize their problems, and work out satisfactory practical solutions.

Rural people have an opportunity to participate in making and developing the county and state Agricultural Extension Program. Each county extension office has a sponsoring organization of farm people. Twice each year an Advisory Committee, elected by rural people, meets at the College of Agriculture to make recommendations to the State Agricultural Extension Service.

It is from the recommendations of this committee that the activities of the county and state Agricultural Extension Service staff members are directed in four major fields of work—Balanced Farming, Rural Youth, Rural Health and Recreation, and Rural Policy.

Balanced Farming

Balanced Farming is a carefully planned system which starts with the family itself and takes into consideration the entire farming unit. It ties the individual enterprises and practices together in the right balance to improve the soil and at the same time get progressively greater returns year after year in terms of net family income. It is the soundest system that the farmer and his wife, with available information and technical help, can set up for the farm and home.

The philosophy of the Balanced Farming Program is based upon the belief that:

- (1) A sound farm plan is as essential to success in the management of a farm as is a blueprint for a good building.
- (2) The major objective is better farm family living, upholding the dignity of the individual.
- (3) A plan for soil improvement alone is not realistic. It must be fitted in with the crops and livestock in order to be effective.

(4) A farm plan is necessary for thrifty, profitable livestock.

This program is an attempt to tie all the sound, helpful recommendations of the College of Agriculture together into an integrated program for a particular farm.

Rural Youth

The 4-H Club program is designed to fit the needs of rural boys and girls between the ages of 10 and 21. The Rural Youth Organization is for young adults who for the most part are not yet settled in homes and vocations of their own.

The State Extension Advisory Committee recognizes these two segments of rural society and has a sub-committee on rural youth work to counsel and guide the program in such a way as will best meet the needs of rural young people.

The 4-H program is an action program built around projects in agriculture or home economics and group work. The projects touch on practically every phase of farming and homemaking, a total of 55.

Group work is designed to meet the social, recreational, health and community service needs of this age group.

The program of the Rural Youth Organization (R.Y.O.) is largely confined to group work. This age group develops its own program in whatever area or areas its interests lie. This may be farming, homemaking, health, recreation and community service. Self-improvement and community improvement is at the core of the efforts of this group. This group provides much of the recreation leadership, discussion leadership, and community service leadership for themselves and the public at large.

Rural Health and Recreation

Following the recommendations of the State Advisory Committee on Health, the Agricultural Extension Service is giving increased attention to those phases that constitute positive health: (1) Good nutrition, (2) Good sanitation for both the family and livestock, (3) Good working conditions in the home, (4) Utilizing the farm resources in developing recreation interests, and (5) Making available information that will help build family cooperation and mutual understanding. The Agricultural Extension Service, cooperating with the Missouri State Health Division, Health Organizations (Tuberculosis and Infantile Paralysis Association) and Farm Organizations, is making available to rural people information regarding these organizations and how to use the facilities which they have made available.

Recreation is complete when it includes the entire family. The Agriculture Extension Service has recognized the need for assisting with recreation. District recreational leader training meetings are

held to disperse recreational philosophy as well as the "know-how" to organize recreational programs for limited space or large space.

Classes on crafts, both native and commercial, are conducted in connection with the summer camping period. All 4-H camps are entirely recreational in nature—using recreation in the broader sense.

Rural Policy

Rural Policy includes providing information to farm families on local, state, national and international programs and policies that have a bearing on the operation of the farm, farm income, or living conditions on the farm. Such topics include: Agricultural Price Policy, International Trade Policy, State and National Fiscal Policies, Agricultural Legislation, etc.

Extension instruction is based on county and community programs of work. These programs, in turn, are based on the conscious needs of the counties and communities for instruction in agriculture and home economics of immediate local significance.

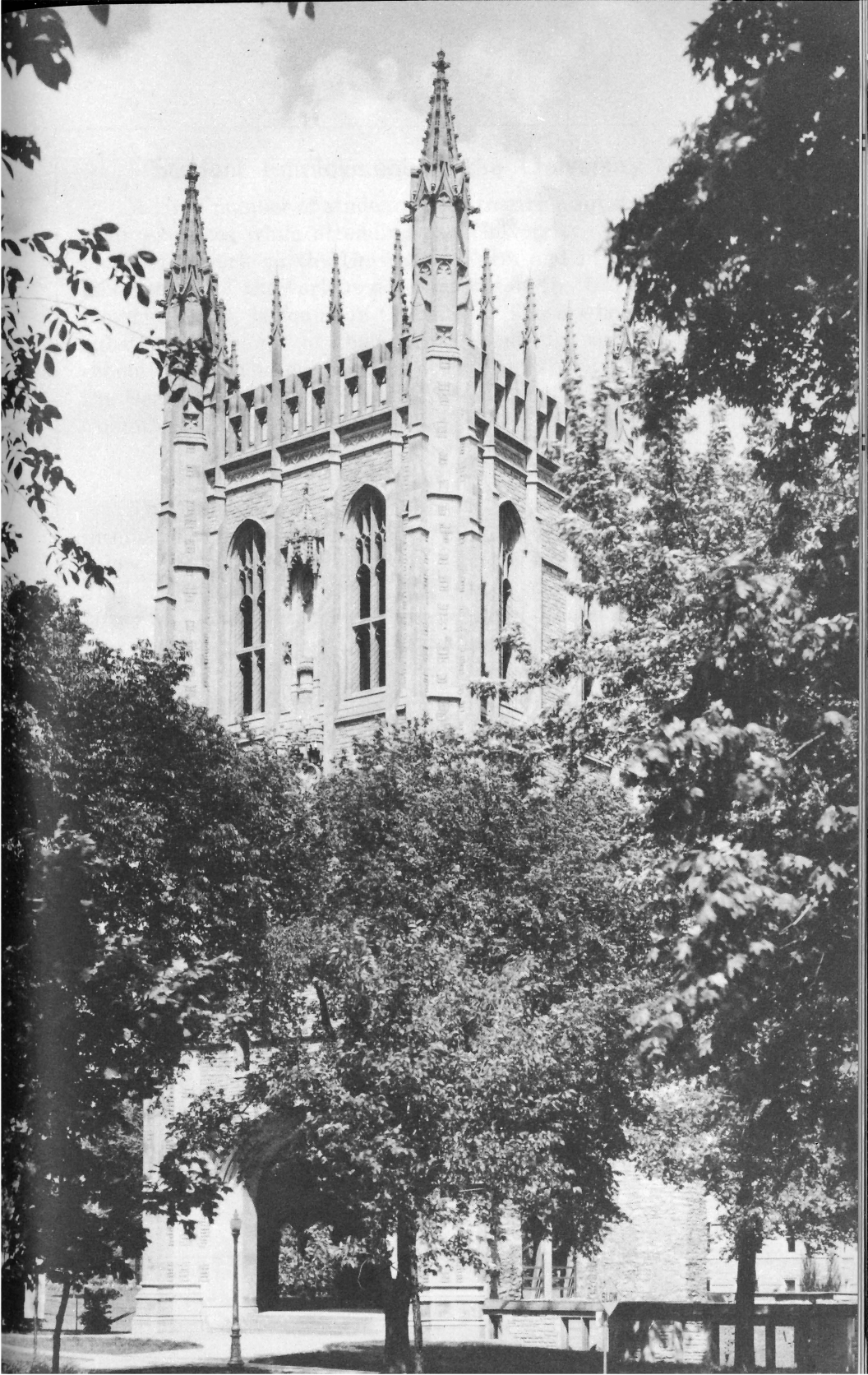
Instruction is given in the counties by the use of demonstrations established on farms and in farm homes. Local organizations and local leadership are utilized to the fullest extent possible in that people may be taught in groups corresponding to the way that classes are held on the campus. Large use is made of printed circulars.

County Agricultural Agents and County Home Agents are the Extension representatives of the Missouri College of Agriculture, in each of the 114 counties. Extension projects contributing to the four major fields mentioned above include: Rural Youth, Agricultural Engineering, Soils, Crops, Nutrition, Clothing, Farm and Home Management, Agricultural Economics, Animal Husbandry, Dairy Husbandry, Health, Poultry Husbandry, Horticulture, Soil Conservation, Information, Administration, Animal Disease Control, Rural Sociology, Forestry, and Entomology.

Approximately 48 per cent of the Missouri Agricultural Extension Service support comes from Federal funds allotted to the state under the Smith-Lever Act of Congress approved May 8, 1914, and by later acts of Congress. The balance of the financial support accruing to this service is derived from state and county appropriations supplemented by funds contributed by various organizations.

For any information concerning the Missouri Agricultural Extension Service of the College of Agriculture, write to J. W. BURCH, DIRECTOR, AGRICULTURAL EXTENSION SERVICE, COLUMBIA, MISSOURI.

THE MEMORIAL TOWER serves as a landmark of the surrounding countryside and will become an integral part of the new Union Building.





Student Employment at the University

A large number of students work to earn a substantial part of their expenses while attending the University. Many are employed for work on the University Farm and in the offices and laboratories of the various departments of the University. Employment, also, is found in Columbia. Those who must earn a substantial amount of their expenses should not attempt full school work. Those who need work should write in advance to the Dean's Office, University of Missouri, College of Agriculture, Columbia, Mo., for application blanks.

Student Loan Funds and Scholarships

The University of Missouri has a number of loan funds the income of which is used to aid worthy students. It is loaned at a low rate of interest. Anyone interested should write to the Student Financial Aid Office, University of Missouri, Columbia, Missouri. Kroger scholarships and Sears-Roebuck scholarships also are available to entering freshmen in agriculture and home economics. Applications may be secured by addressing: The Dean's Office, University of Missouri College of Agriculture, Columbia, Missouri.

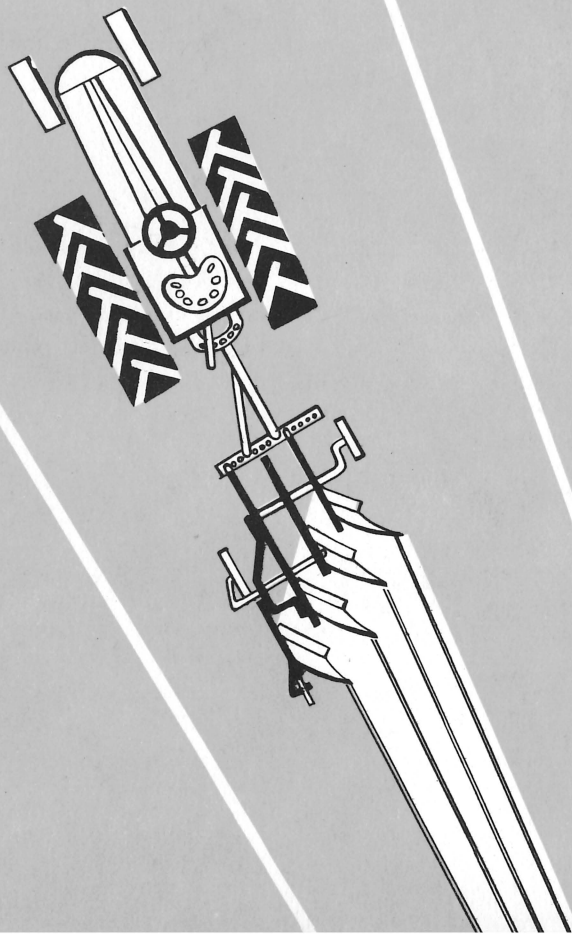
Veteran Benefits

While a veteran is attending the University under the benefits of either Public Law 16 for disabled veterans or Public Law 346 (the GI Bill of Rights), all fees, books and supplies are paid for by these laws. In addition, proper allowance will be made for subsistence under the provisions of these bills.

Information

Further information relating to any phase of the work of the University of Missouri College of Agriculture may be secured by addressing the

Dean's Office
The University of Missouri
College of Agriculture
130 Mumford Hall
Columbia, Mo.



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