

AgM 111. Rural Electrification (2) S

Prerequisite: junior standing. Fundamentals of alternating current, wiring practices, circuit layouts and problems, motor and branch circuit protection; safety of electricity; wiring of farmstead.

AgM 115a-b. Farm Machinery (2-2) F-S

Prerequisite: AgM 15a. (a) Study and operation of tillage tools, interaction of the soil and tool; cotton, grain, and specialized harvesting machinery and equipment. (b) Orchard and field spraying equipment, field and row crop planters, cultivating tools, and haying machinery. (1 lecture, 3 lab hours)

AgM 121. Advanced Agricultural Welding (2) S

Prerequisites: AgM 18a-b. Arc and gas welding processes in construction and repair of farm equipment; inert arc welding; radiograph and shape burnishing of aluminum and stainless steels; welding tests and design of welded structures. (1 lecture, 3 lab hours)

AgM 151a-b. Farm Power (2-2) F-S

Prerequisite: AgM 15a. (a) Principles of the internal combustion engine, adjusting, servicing, and minor repairs practical in farming operations. (b) Overhauling and repairing of gasoline and diesel farm tractors and engines; field servicing and repairing of auxiliary power plants on farm machinery. (1 lecture, 3 lab hours)

AgM 159. Pumps and Motors (3) F and S

Prerequisites: AgM 15a, Ag 146. Operation and study of centrifugal and diesel turbines; testing of pumps and motors under operating conditions to determine efficiency; installation, protective devices, maintenance and proper selection of single and three-phase motors used on the farm. (2 lecture, 3 lab hours)

AgM 190. Independent Study (1-5) F and S (See page 64)**ANIMAL SCIENCE DEPARTMENT**

K

Principal Vocational Instructors: Rousek (Chairman), J. Bell, W. E. Smith (p.-t.)

Senior Vocational Instructors: Glim, Hixson, Selkirk

Intermediate Vocational Instructor: Ball, Verdugo

Junior Vocational Instructor: Pflueger

The Animal Science Department offers majors in animal husbandry, dairy husbandry, dairy industry, and poultry husbandry.

The Animal Husbandry major prepares students for occupations in farming where beef cattle, sheep, swine and horse enterprises are an important part of the industry.

C. J. Many graduates in this department are engaged in the livestock and farming business or in other agribusiness occupations. The department maintains purebred herds of Hereford, Shorthorn and Angus beef cattle; a purebred flock of Rambouillet, Corriedale, and Hampshire sheep; four breeds of swine—Berkshire, Hampshire, Yorkshire, and Duroc; and a complement of registered quarter horses.

K. The Dairy Husbandry major trains students for commercial dairy farming enterprises, dairy herd managers, milk testers, fieldmen for breed associations, dairy sanitarians, and other agribusiness occupations. The department maintains three breeds of purebred dairy cattle—Holsteins, Guernseys, and Jerseys. A new Grade A dairy barn, dry feed lots, bull barn, fitting and showing barn, and a cow and calf barn provide excellent facilities for practical training in dairy husbandry.

De. The Dairy Industry major prepares students for jobs in dairy plants in processing milk, ice cream, cheese, butter, and other dairy products. The college maintains its own processing plant for bottling milk and teaching the required courses in butter-making, ice cream, cheese, and dairy plant management. Dairy products are processed for the College Cafeteria and Retail Sales Store by students as a part of the practical training program.

The Poultry Husbandry major prepares students for occupations in commercial egg production, fryer operations, breeder flock management, hatchery, processing, and sales positions with feed companies. Many graduates operate their own turkey and poultry farms. The Poultry Plant includes a central hatchery with cold storage facilities for egg handling, grading and candling; commercial egg production and pedigree pens; brooding facilities for conventional type houses along with sunshine brooders, intermediate growing batteries and wire floor cage houses. Over 3,000 birds are maintained in the college flock.

The Agribusiness major with an option in animal science prepares students for positions in areas such as agricultural sales, including veterinary supplies, feeds; appraising for insurance companies and banks; management, credit, accounting and other office work; and general farming.