New Courses

To Meet New Demands

Range Management summer field classes study in a mighty big classroom.

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One of America's favorite poets, James Russell Lowell, wrote the following significant lines:

"New occasions teach new duties,
Time makes ancient good uncouth;
They must upward still and onward,
Who would keep abreast of truth."

This is the spirit of the modern college curriculum. It must be revised constantly in order to keep abreast of new demands. The revised University of Arizona catalogue will contain a number of new courses in agriculture which reflect the areas of demand for trained graduates.

In Animal Science a new course, "meat processing," has been added. It will deal with the slaughter of animals, care of the carcass, and preserving and storing of meat. The student will learn the various cuts of beef, lamb, veal, and pork and their identification. Federal and state inspection laws, judging of meat quality and effect of animal disease on meat quality, will receive consideration. Practical laboratory work, along with visits to packing houses, will give the student first hand knowledge of this important subject.

Bugs and Poisons

The increasing use of insecticides in farm practice calls for trained personnel familiar with the poisons used and their effects. A new advanced course in Entomology entitled, "insect toxicology," will deal with the nature of inorganic and organic insecticides, their toxic action and insect resistance to them. This course will be valuable for students planning to become economic entomologists, or who expect to engage in the manufacture and distribution of insecticides.

The increase in the number of our public parks, playgrounds and golf courses, and the landscaping of private and public grounds have made it necessary to add a new area of specialization in horticulture, that of landscape design.

Students will make working drawings of designs for the landscaping of grounds for dwellings, business property and public buildings. Additional courses in floriculture, turf and nursery management, and landscape architecture will help to round out the students' training.

Dairy Plant Management

Graduates in Dairy Science are now expected to be able to handle positions in dairy management. To meet this demand new courses in dairy plant management are provided in cooperation with the College of Business and Public Administration. Students will learn about the large scale processing of milk, packaging of dairy products, route management and business record keeping in dairy plants.

In dairy production, a course on the physiology of reproduction and milk secretion and another in dairy herd management are now available. The latter will deal with proper milking practices, efficient housing, corrals, feed storage and herd management. Problems of herd health, production costs and marketing of milk will be studied.

Because of the increase in farm mechanization and extension of irrigation systems, agricultural engineers are in great demand. A new curriculum leading to the degree "Bachelor of Science in Agricultural Engineering" has been provided. Courses in hydrology, farm machinery, farm structures, farm power and irrigation engineering, together with the required basic engineering work, will prepare the student to enter agricultural engineering as a profession.

Summer Range Tour

Range management as a career has come into prominence in recent years. Our major in range management has been greatly enriched by providing a three-week summer field course. This course includes a trip through the range areas of Arizona, Colorado, Wyoming, and other western states.

It provides opportunity to observe and study range management practices in typical range and forest areas. Systems of grazing, forage evaluation, noxious plant control, and range reseeding are studied. Class and instructor carry their own camping equipment. Discussions are held in camp every evening concerning the area covered and observations made during the day. An illustrated report is required of every student.

For the future agronomist, a one year course called "Design and Analysis of Experiments in Agriculture," gives the student the statistical basis for the planning of field experiments. Another course, "Principles of Agricultural Research," will help graduate students to plan and carry out a research problem.

The great diversity of opportunities in agriculture makes it difficult for the student to choose his major field of study. Two orientation courses, one unit each, are planned to acquaint the student with the requirements of positions in farm management, agricultural sales, government service, teaching and research in agricultural colleges, teaching vocational agriculture in high school, and in Agricultural Extension.

Agricultural Journalism

For the future agricultural writer, a new curricular bridge leads from agriculture to the university's Department of Journalism, so the future agricultural spokesman—as editor, reporter or farm leader—will have an ability to discuss agriculture, its problems and accomplishments and hopes, in writing.