COLLEGE OF AGRICULTURE
CURRICULUM REVISIONS

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One of the major responsibilities of any institution of higher learning is to make sure that its curricula keep pace with the ever advancing frontiers of knowledge. Changes made may involve only slight revisions in existing courses or major revisions in which existing courses are deleted and new ones added.

In any revisions, items considered include need to up-date certain subject matter areas, student demand, course duplication, teaching staff available, and others.

For the 1963-64, 1964-65 biennial University of Arizona catalog, the College of Agriculture has revised its curricula by offering 16 new courses and dropping 13.

New Ag. Engineering Courses

The Department of Agricultural Engineering has revised its curriculum for students majoring in that field and has modified its curriculum for majors in farm mechanization. Students majoring in Agricultural Engineering will be offered five new courses designed to present the fundamentals of the application of engineering to agriculture.

Titles of the new courses indicate the broad scope of the course contents. The first course, Energy in Agriculture, is based on engineering core curriculum material and is the initial course in the sequence of courses for majors in agricultural engineering. Subsequent courses to be offered are: Water Control in Agriculture, Components and Systems in Agriculture, Agricultural Engineering Laboratory, and Agricultural Engineering Design.

The Department of Agricultural Economics has strengthened its program by adding three new courses to be offered exclusively to graduate students. These courses are designed to permit students to continue their undergraduate studies in the field of agricultural economics while pursuing graduate work in the areas of energy, water control, and agricultural engineering.

New Ag. Engineering Courses

Courses in the graduate program will be offered by the Department of Agricultural Engineering and are designed to provide advanced study in agricultural engineering. The courses will be offered on a part-time basis and will be open to students who have completed a baccalaureate degree in agricultural engineering or a related field.

Animal Path. Has New Course

A new course, Experimental Surgery, will be offered by the Department of Animal Pathology to staff members and graduate students in various biological sciences whose research involves some phase of surgical procedure with test animals.

In keeping pace with the expanding graduate college program and the advances in plant physiology research, the Botany Department, in cooperation with staff members from six other departments, is offering a new course, Advanced Plant Physiology. This course will cover the basic principles of metabolism, plant-water relations, growth and development, and photosynthesis and energy relations. It will take four consecutive semesters to complete the subject matter offerings of this course.

This cooperative approach combining the efforts of staff members whose basic discipline is plant physiology, and who represent wide areas of experience and training, will greatly strengthen the graduate program in the plant sciences.

The Botany Department also is offering a beginning course, Fundamentals of Botany. For this new course, the department has received a National Science Foundation Grant of $5,610 for scientific equipment.

Summer Extension Course

A summer course, Directed Experience in Extension Education, will be offered by the Agricultural Education Department. This offers students on-the-job training in the methods, techniques and practices of extension employees.

Insect Physiology-Toxicology Laboratory will be offered by the Entomology Department to provide laboratory experience for students enrolled in two existing courses, Insect Physiology and Insect Toxicology. The landscape architecture section of the Horticulture Department has added the new course, Landscape Construction, to its curriculum which includes existing courses in landscape architecture, landscape plant materials and landscape design.

These curriculum changes are indicative of the flexibility which must be maintained in order to train students to meet the constant changes in the fields of science and technology related to agriculture.