

# COLLEGE OF AGRICULTURE

## CURRICULUM REVISIONS

W. P. Bemis

*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

Dr. Bemis, a professor of Horticulture, is also chairman of the College of Agriculture curriculum committee.

offer advanced study in *Agricultural Marketing Analysis*, *Economics of Natural Resources*, and *Agricultural Policy Analysis*. In addition, a course in *Wildland Economics* will be offered to undergraduate as well as graduate students.

### 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.

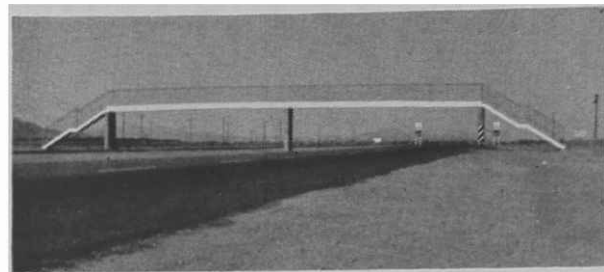
### Summer Extension Course

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

## Where Is This Bridge?



You'll either know this picture definitely — or not at all. All we'll tell you is that it is for pedestrian travel, and that it has been installed recently. If you're still curious, turn to Page 15 for the answer.

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Es necesario administrar sal al ganado "a discreción" durante todo el tiempo. Esto es que los animales puedan disponer de ella cuando la apetecen. Los otros minerales necesarios deberán suministrarse de acuerdo con las condiciones locales, en cuanto a su ausencia o escasez.—TIERRA

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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.