

Ag 114. California Fruit and Vegetable Standards (3)

For students interested in government fruit inspection. California laws and enforcement of regulations for packing or shipping fruits, nuts and vegetables. (2 lecture, 3 lab hours)

Ag 130. Plant Pathology (4) (Same as Bact 130)

Prerequisite: Bot 1. Nature, cause, and control of plant disease in economic agriculture plants. (2 lecture, 6 lab hours)

Ag 136. Soils (3)

Physical and chemical properties of soils influenced by climate, parent material, topography, organisms, and time; use, interpretation and evaluation of soil practices and research, including soil maps, field experiments, fertilizers, physical and chemical analysis. (2 lecture, 3 lab hours; one Saturday field trip)

Ag 146. Irrigation (3)

Methods of irrigation adapted to the San Joaquin Valley; water requirements of various crops and methods of application. (2 lecture, 3 lab hours; 1 Saturday field trip)

Ag 151. Farm Accounting (3)

Prerequisite: Econ 1A, Bus Ad 27, or permission of instructor. Farm accounting systems, farm records, budgets, income tax returns. (2 lectures, 3 lab hours)

Ag 159. Spray Materials (3)

Prerequisite: Chem 2A-B. Development of agricultural chemical industry; chemical properties of compounds used as insecticides, fungicides, rodenticides and herbicides; formulations, regulations and typical uses of these materials. (2 lecture, 3 lab hours)

Ag 180. Special Problems (1-4; max total 4)**Ag 182. Soil Management (3)**

Prerequisite: Ag 136 or equivalent, Chem 2A-B. Factors affecting soil fertility, management of soils, attaining continuous maximum productivity. Physical, chemical and field tests on soil fertility, crop and livestock soil management. (2 lecture, 3 lab hours; one week-end field trip)

Ag 184. Advanced Irrigation (3)

Prerequisite: Ag 146 or equivalent. Evaluation of the equipment design, operation, soil and crop response of methods of irrigation, sprinkler methods; pipe line and other methods featuring water control, soil and water conservation. (2 lecture, 3 lab hours; one week-end field trip)

Ag 186. Methods of Teaching General Agriculture (3)

Prerequisite: Ed 185; Ed 131 or permission of instructor. Philosophy and teaching techniques in general agriculture; organization of teaching materials; professional standards for teachers.

190. Independent Study (1-3; max see reference)

See *Regulations and Procedures—Independent Study*.

GRADUATE COURSE

(See *Course Numbering System—Definitions and Eligibility*)

Ag 280. Seminar in Agriculture (3; max see below)

Maximum total credit 9 units in any given area or any combination of the three areas. Prerequisite: bachelor's degree in agriculture or permission of instructor. Advanced problems in agriculture; research and experimentation in a selected area: animal science, plant science, or agricultural mechanics.