101. Plant Quarantine (3)
Prerequisite: Plant 121. The biological, economic, and administrative aspects of plant quarantine; study of the plant pests under federal and state quarantine laws.

111. Fruit and Vegetable Standards (3)
State and federal standards and regulations for packing, processing, and shipping fruits and vegetables.

121. Economic Entomology (3) (Same as Ent 106.)
Prerequisite: Bot 10 or Zool 10. General and economic entomology; taxonomy of the principal orders of insects; life histories, habits, recognition, and control of the principal agriculture insect pests of the San Joaquin Valley. (2 lecture, 3 lab hours; field trips)

131. Weeds (3)
Prerequisite: Bot 10, Chem 2A. Weed control in California. Identification of common weeds. Fundamentals of preventive, cultural, biological, physical and chemical weed control methods. (2 lecture, 3 lab hours)

132. Agricultural Chemical Application (3)
Application techniques of agricultural chemicals: fertilizers, insecticides, herbicides, fungicides, nematocides, fumigants. Emphasis on effective and safe use of chemicals and on equipment calibration to ensure proper rate of application. (2 lecture, 3 lab hours)

141. Fruit Diseases and Pests (3)
Fruit diseases and pests; identification and control; application of sprays, insecticides; establishment of control programs. (2 lecture, 3 lab hours)

151. Properties of Pesticides (3)
Prerequisite: Chem 8. Physical and chemical properties of the principal insecticides, fungicides, and nemotocides; formulations, regulations, and typical uses.

161. Plant Nematology (3)
Prerequisite: Zool 10. Morphology, life history, parasitic activity, and control of economically important nematodes with emphasis of plant-parasitic forms. (2 lecture, 3 lab hours)

171. Plant Pathology (4)
Prerequisite: Bot 1. Nature, cause, and control of plant disease in economic agriculture plants. (2 lecture, 6 lab hours)

181. Soil Microbiology (3)
Prerequisite: Plant 171 or Microbiology. Isolation, population studies and biochemical activities of soil organisms related to organic matter and agricultural chemicals decomposition, including their effects on plant growth. (2 lecture, 3 lab hours)

AGRONOMY (Plant)

13. Agronomy (3)
Principles of crop production and survey of important cereal crops; wheat, barley, rice, oats, rye, cultural methods, uses and marketing in California and the San Joaquin Valley. (2 lecture, 3 lab hours; 2 Saturday field trips)

33. Row Crops (3)
Cultural methods, uses and marketing of major California and San Joaquin Valley row crops: corn, grain sorghum, sugar beets, beans, cotton, and other fiber and oil crops. (2 lecture, 3 lab hours)

43. Cereal Crops (3)
Prerequisite: Plant 13. Cereal crops common to the San Joaquin Valley; varieties and cultural practices, harvesting and marketing. (2 lecture, 3 lab hours)