

Soil and Water Science. Provides an education in physical and biological sciences applied to soil-water-plant relationships designed for the student interested in farm management, irrigation system design, employment as fertilizer or sprinkler equipment salesman; preparation for governmental and industrial research, irrigation district management and planning, and graduate study.

Programs of Study: The Department of Plant Science provides competent advisers for students pursuing career objectives in, *but not limited to*, the following areas:

<i>Career Objective</i>	<i>Suggested Major</i>
Research agronomy	Agricultural science
Farming: field crops, vegetable crops	Agricultural science
Fruit production, citrus farming	Agricultural science
Vineyard management	Agricultural business
Ornamental horticulture: landscape design, nursery management, turf management	Agricultural Science or agricultural business
Viticulture	Agricultural science
Pomology: production, research	Agricultural Science
Diversified farming	Agricultural education
Vegetable processing: frozen, fresh	Agricultural science or agricultural business
Irrigation	Agricultural science
Soil science	Agricultural science
Agricultural sales: plant nutrients, weedicides, insecticides, fertilizers	Agricultural business
Plant pathology	Agricultural science
Agricultural entomology	Agricultural science
Range or pasture management	Agricultural science
Research and development: plant by-products, mechanization, plant breeding	Agricultural science

Plant Science Laboratory Units: Theoretical instruction in plant sciences is enhanced through practical application at the various laboratory units. These units include the Orchard Laboratory (65 acres), Vineyard Laboratory (160 acres), Raisin Processing Laboratory, Post-Harvest Physiology Laboratory, Seed Processing Laboratory, Ornamental Horticulture Laboratory, Pasture and Field Crop Laboratory (950 acres), and Sprinkler Irrigation Test Laboratory.

SUPERVISED PROJECTS

The agricultural sciences program is unique in that it provides opportunity for students to gain both theoretical training and practical experience in farming while pursuing their university programs. The supervised project experience is designed to supplement the lecture and laboratory assignments, giving students greater opportunity to develop the practical side of farming. The university owns all of the necessary equipment for student projects. A rental fee is charged for use of equipment. Proficiency in operating equipment must be demonstrated before projects may be undertaken. Students sign contracts wherein they agree to perform the labor required in caring for their projects. The Agricultural Foundation serves as a banking agency in providing the money students may need for the project materials. Students must submit records on each enterprise to the Agricultural Foundation and share the profit or loss with the Foundation according to established percentages.

In the Department of Plant Science students have an opportunity for project participation, usually limited to five-acre plots. Under certain conditions, reduced or expanded acreage may be allowed. Students prepare seed beds, plant, cultivate, irrigate, control insect pests and weeds, and harvest and market their crops, in addition to making all managerial decisions necessary to completion of the enterprise.