

# AGRICULTURE (AGRI)

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## **AGRI 0028. Independent Study**

*Units: 1-3*

Designed for students interested in furthering their knowledge at an independent study level in an area where no specific curriculum offering is currently available. Independent study might include, but is not limited to, research papers, special subject area projects, and research projects. See Independent Study page in catalog. (CSU, UC-with unit limitation)

## **AGRI 0095. Internship in Agriculture**

*Units: 0.5-4*

Designed for advanced students to work in an area related to their educational or occupational goal. Provides new on-the-job technical training under the direction of a worksite supervisor, allowing students to expand knowledge and skills in the chosen field. Mandatory orientation session and faculty approval to determine eligibility. Students may earn up to a total of 16 units in internship courses (any course numbered 95 and PDEV 94). (CSU-with unit limitation)

## **AGRI 0156. Introduction to Plant Science**

*Units: 4*

Formerly known as HORT 2

Also known as BIOL 21

Advisory: Eligibility for ENGL 1A

Hours: 108 (54 lecture, 54 laboratory)

Emphasizes structure, growth, physiology and reproduction of flowering plants and their responses to modifications and environment; including propagation, media, soil and plant nutrition. Explores the interrelationship of plant science with other life sciences and technology. Applies principles of plant science to agricultural systems. (CSU, UC)

## **AGRI 0159. Integrated Pest Management**

*Units: 3*

Formerly known as HORT 52

Hours: 54 lecture

Comprehensive study of integrated pest management with emphasis on sustainable management practices of landscape and small crop pests. Includes identification and study of insects, weeds, plant diseases, vertebrate pests, and beneficial organisms. Studies least toxic pest control strategies, labeling, formulations and safe handling of pesticides. (CSU)

## **AGRI 0160B. Methods of Propagation**

*Unit: 1*

Formerly known as HORT 134B

Hours: 54 laboratory

Provides an advanced level of skill, technique and experience in spring plant production. In-depth studies of propagation materials, sexual and asexual reproduction, transplanting and planting. Preparation and use of propagation and planting media. (not transferable)

## **AGRI 0164. Sustainable Tree Care**

*Units: 3*

Formerly known as HORT 40

Hours: 90 (36 lecture, 54 laboratory)

Sustainable horticultural principles and practices for management and care of trees in urban and landscape settings. Includes tree biology and culture, proper tree selection, maintenance, planting, staking, pruning techniques, tree hazard assessment, and risk management. Current issues in urban forestry and trees in the urban environment will be covered. (CSU)

## **AGRI 0196. Introduction to Sustainable Agriculture**

*Units: 3*

Hours: 54 lecture

Introduction to the concepts and principles of agroecology as applied to the design and management of sustainable agricultural systems. Includes examination of case studies connecting sustainable agriculture principles to farming practices. (CSU)

## **AGRI 0198. Food, Society and the Environment**

*Units: 3*

Advisory: Eligibility for ENGL 1A

Hours: 54 lecture

Multiple perspectives and global connections between the environment, society and food production. Emphasis on agriculture's central position between nature and society and its key role in humanity's search for a productive and sustainable environment. (CSU, UC)

## **AGRI 0200. Introduction to Animal Science**

*Units: 4*

Advisory: Eligibility for ENGL 1A

Hours: 108 (54 lecture, 54 laboratory)

An overview of the principles of animal science and the interrelationships of domestic animals and mankind. Introduces various disciplines, including cell function, genetics, anatomy and physiology, reproduction, nutrition, animal health, animal products and animal behavior. (CSU, UC)

## **AGRI 0203. Animal Feeds and Nutrition**

*Units: 4*

Formerly known as AGRI 12

Advisory: Eligibility for ENGL 1A

Hours: 108 (54 lecture, 54 laboratory)

An introduction to the feeds and nutrition of animals including basic digestive system anatomy and physiology; composition and selection of feeds; characteristics of nutrients; principles of nutrition; nutrient requirements of non-ruminant and ruminant animals; and formulating diets to meet these requirements. (CSU)

## **AGRI 0212. Direct Farm Marketing**

*Units: 2*

Hours: 36 lecture

Overview of direct farm marketing. Includes innovative marketing alternatives for the small to medium size grower, proven methods of product development, promotion, pricing and distribution. (not transferable)

## **AGRI 0215. Introduction to Agricultural Business and Economics**

*Units: 3*

Advisory: Eligibility for ENGL 1A

Hours: 54 lecture

An overview of the role agriculture business plays in United States and world economies. Production and supply, marketing and demand, resource allocation, commodity pricing under perfect and imperfect competition are some of the topics discussed as well as social and economic challenges of agriculture in urban and industrialized economies emphasizing California. (CSU, UC)

**AGRI 0221. Introduction to Soil Science**

*Units: 3*

Advisory: Eligibility for ENGL 1A

Hours: 90 (36 lecture, 54 laboratory)

Soils as natural bodies formed by interactive environmental processes, classification and characteristics. Soil response to use and management including erosion, moisture retention, structure, cultivation, organic matter and microbiology. Laboratory topics include soil type, classification, soil reaction, soil fertility and physical properties of soil. (CSU, UC)