

AGRICULTURE PLANT SCIENCE

AGRICULTURE PLANT SCIENCE (AGPS)

DIVISION: Natural Sciences

AGPS 004 PLANT SCIENCE

3 unit

Transfer Credit: CSU; UC

Overview of plant sciences and the biology of plants. The effects of environmental conditions, agricultural practices, and management techniques on plant propagation, growth, harvest, and use of plants; and the ethical and societal impacts of improving, sustainable agricultural practices. Total of 54 hours lecture.

Grade Mode: *Letter Grade, Pass/No-Pass*

AGPS 006 ENVIRONMENTAL HORTICULTURE

3 unit

Transfer Credit: CSU; UC

Environmental horticulture surveying the structure and function of horticultural practices in the laboratory, agricultural, and natural landscapes. Examination of plant structures, growth processes, physiology, propagation, growth media, biological competitors, environmental variables, and post-harvest factors of food, fiber, and ornamental plants. Instructional field trips may be required: see Class Schedule for details. Formerly ENVS 010. Total of 36 hours lecture and 54 hours laboratory.

Grade Mode: *Letter Grade, Pass/No-Pass*

AGPS 008 PLANT MATERIALS AND USAGE I

3 unit

Transfer Credit: CSU; UC

C-ID: AG-EH 108L

Identification, growth habits, culture and ornamental use of landscape and indoor plants adapted to climates of California. Plants emphasized will come from the current California Association of Nurseries and Garden Centers (CANGC) and Professional Landcare Network (PLANET) Certification Tests Plant Lists. Covers those plants best observed and studied in the spring of the year. Plant materials from southern California will also be included, with special emphasis on drought tolerant plants. Required: Instructional field trips. See Class Schedule for details. No credit if taken after ENVS 012. Formerly ENVS 012. Total of 36 hours lecture and 54 hours laboratory.

Grade Mode: *Letter Grade, Pass/No-Pass*

AGPS 012 SOIL SCIENCE

3 unit

Transfer Credit: CSU

C-ID: AG-PS 128L

Physical, chemical and biological properties of soil. Focus on soil classification, derivation, use, function 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. Course may include required instructional trips. See Class Schedule for details. Total of 36 hours lecture and 54 hours of laboratory. Formerly ENVS 011 .

Grade Mode: *Letter Grade, Pass/No-Pass*

AGPS 120 ENTOMOLOGY AND INTEGRATED PEST MANAGEMENT

4 unit

C-ID: AG-EH 120X

Survey of arthropods and other horticultural pests. Study of plant-pest interactions and dynamics in both ecological and evolutionary contexts. Practice laboratory diagnostic procedures and techniques for pest identification. Design and implement integrated pest management strategies to specific horticultural scenarios. Total of 54 hours lecture and 54 hours laboratory.

Grade Mode: *Letter Grade, Pass/No-Pass*

AGPS 130 TREE CARE AND URBAN FORESTRY

3 unit

C-ID: AG-EH 130X

Principles about urban forestry, arboriculture careers, and tree care. Includes tree biology, tree identification, plant health care, soils, nutrition, planting, worker safety, climbing, pruning, tree care tools and equipment. Provides the knowledge necessary to be successful in the tree care profession. This course prepares the student to obtain a Certified Arborist designation through the International Society of Arboriculture. Required field trips. See Class Schedule for details. Total of 36 hours lecture and 54 hours laboratory.

Grade Mode: *Letter Grade, Pass/No-Pass*

AGPS 132 LANDSCAPE CONSTRUCTION AND INSTALLATION

3 unit

C-ID: AG-EH 132X

Fundamentals of landscape construction. Topics include: soil preparation, paving and construction materials, hand and power tool use, turf and plant installation, plan reading, estimating, and bid preparation; covers local codes, state requirements, and new technologies. Preparation for the C-27 Landscaping Contractor's License exam. Sustainable landscape practices will be emphasized. Total of 36 hours lecture and 54 hours laboratory.

Grade Mode: *Letter Grade, Pass/No-Pass*

AGPS 144 IRRIGATION

3 unit

C-ID: AG-EH 144X

Design, installation and maintenance of a water-efficient landscape irrigation system. Topics include water supply, basic hydraulics, component identification and terminology, system layout, pipe sizing; types of heads, valves, controllers, and practices related to appropriate to sustainable landscapes in California. Total of 36 hours lecture and 54 hours laboratory.

Grade Mode: *Letter Grade, Pass/No-Pass*