

AGRICULTURE: ORNAMENTAL HORTICULTURE (AGOR)

AGOR 1 Horticultural Science

3 Units (Degree Applicable, CSU, C-ID #: AG-PS 104)

Lecture: 54

Horticulture skills and techniques for use in gardening, nursery, and landscape applications. Emphasis on propagation, cultural practices, and the study of plant relationships, structure, growth and development. Off-campus meetings required.

Course Schedule

AGOR 2 Plant Propagation/Greenhouse Management

3 Units (Degree Applicable, CSU, C-ID #: AG-EH 116L)

Lecture: 36 Lab: 54

Plant propagation and production practices with emphasis on florists' plants, woody ornamentals, and fruits. Commercial techniques include seed propagation, cuttings, grafting and budding, layering, fern sporing, and division. Stresses greenhouses and other environmental structures for plant propagation and production.

Course Schedule

AGOR 4 Park Management

3 Units (Degree Applicable)

Lecture: 54

Management and operation of municipal park departments. Includes the development of budgets, purchasing, park policies, planning and scheduling.

Course Schedule

AGOR 5 Park Facilities

3 Units (Degree Applicable)

Lecture: 54

Management and operation of different types of park facilities. Includes the management of sports fields, recreation centers, campgrounds, aquatic facilities, and golf courses.

Course Schedule

AGOR 13 Landscape Design

3 Units (Degree Applicable, CSU, UC)

Lecture: 36 Lab: 54

Landscape design for residential and small commercial sites including the design process, drafting, graphics, site evaluation, landscaping materials, and plant usage. Field trips and off-campus assignments required.

Course Schedule

AGOR 14 Advanced Landscape Design

3 Units (Degree Applicable)

Lecture: 36 Lab: 54

Prerequisite: AGOR 13

Computer Assisted Design and Drafting (CAD) with applications for landscape horticultural businesses. Includes applied CAD for plan, detail, elevation, and section drawings with exposure to CAD associated databases and plant selection programs. Field trips required.

Course Schedule

AGOR 15 Interior Landscaping

3 Units (Degree Applicable)

Lecture: 54

Design, installation, and maintenance practices used in interior landscaping. Includes identification, culture, and care of plants suitable for interior use.

Course Schedule

AGOR 24 Integrated Pest Management

3 Units (Degree Applicable, CSU)

Lecture: 36 Lab: 54

Common agricultural pests in Southern California and physical, biological, and chemical pest control principles and practices, including integrated pest management (IPM). Stresses use, safety, equipment, laws, and regulations of pesticides. Field trips are required.

Course Schedule

AGOR 29 Ornamental Plants - Herbaceous

3 Units (Degree Applicable, CSU, UC, C-ID #: AG-EH 108L)

Lecture: 36 Lab: 54

Identification, growth habits, culture and ornamental use of landscape annuals, biennials, perennials, ferns, indoor plants, groundcovers and vines adapted to climates of California. Plants emphasized will come from the California Association of Nurseries and Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) certification test plant lists. Off campus meetings required.

Course Schedule

AGOR 30 Ornamental Plants - Trees and Woody Shrubs

3 Units (Degree Applicable, CSU, UC, C-ID #: AG-EH 112L)

Lecture: 36 Lab: 54

Identification, growth habits, culture and ornamental use of landscape trees and shrubs adapted to climates of California. Plants emphasized will come from the California Association of Nurseries and Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) certification test plant lists. Off-campus meetings required.

Course Schedule

AGOR 32 Landscaping and Nursery Management

3 Units (Degree Applicable, CSU)

Lecture: 36 Lab: 54

Operation and management of wholesale and retail nurseries. Includes site location and layout of areas, greenhouse management, soil mixes, proper use of fertilizers, insecticides, fungicides, herbicides, growth regulators, irrigation, mechanization, financing, personnel management, retail displays, advertising, customer relationships, federal, state, and local laws and regulations. Field trips are required.

Course Schedule

AGOR 35 Ornamental Plants for Southwest Climates

3 Units (Degree Applicable, CSU)

Lecture: 36 Lab: 54

Identification, growth habits, culture and ornamental use of annuals, perennials, groundcovers, shrubs, trees, cacti, and succulents which are native to California and the Southwest, or drought tolerant in Southern California.

Course Schedule

AGOR 39 Turf Grass Production and Management

3 Units (Degree Applicable, CSU)

Lecture: 36 Lab: 54

Cultivation, maintenance, and management of turfgrasses utilized for athletic fields, golf courses, parks, cemeteries, and commercial and residential lawns. Identification, installation, cultural requirements, and maintenance practices are emphasized. Field trips required.

Course Schedule

AGOR 40 Sports Turf Management

3 Units (Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass)

Lecture: 36 Lab: 54

Prerequisite: AGOR 39 or equivalent experience

Prepares students to work in the sports turf industry. Emphasizes turf cultural techniques used in sports turf management. Includes turf surfaces used on baseball, football, soccer, tennis, golf courses, driving ranges, and other sports fields in both professional and amateur sports. Field trips required.

Course Schedule

AGOR 50 Soil Science and Management

3 Units (Degree Applicable, CSU, UC, C-ID #: AG-PS 128L)

Lecture: 36 Lab: 54

Principles of soil management, including management of air, water, nutrients, organic matter. Study of soil including physical, chemical, and biological properties, classification, derivation, use, function, and management including erosion, moisture retention, structure, cultivation, organic matter, and microbiology as they pertain to optimized plant growth. Laboratory topics include soil type, classification, soil reaction, soil fertility, and physical properties of soil. Laboratory required. Field trips are required.

Course Schedule

AGOR 51 Tractor and Landscape Equipment Operations

3 Units (Degree Applicable, CSU, C-ID #: AG-MA 108L)

(May be taken for option of letter grade or Pass/No Pass)

Lecture: 36 Lab: 54

Selection, operation, repair and maintenance of power equipment used in the agriculture and landscape industry. Includes two- and four-wheel drive tractors, skip loaders, skid steer loaders, backhoes, lawnmowers, edgers, weed eaters, blower vacuums, rototillers, chainsaws, spraying equipment and all-terrain vehicles. Laboratory includes use of this equipment.

Course Schedule

AGOR 52 Hydraulics

3 Units (Degree Applicable, CSU)

Lecture: 36 Lab: 54

Operation, maintenance, and repair of hydraulic systems used for agriculture and industrial equipment. Emphasis on pumps, valves, cylinders, flow control, reservoirs, lines, motors, and hydrostatic transmissions.

Course Schedule

AGOR 53 Small Engine Repair I

3 Units (Degree Applicable, CSU)

(May be taken for option of letter grade or Pass/No Pass)

Lecture: 36 Lab: 54

Principles and repair of small engines used in landscape, industrial and agricultural applications. Includes repairs of lawnmowers, chainsaws, 2-cycle engines, 4-cycle engines, spraying equipment, all-terrain vehicles, and other related gas-powered equipment.

Course Schedule

AGOR 54 Small Engine Repair II

3 Units (Degree Applicable, CSU)

(May be taken for option of letter grade or Pass/No Pass)

Lecture: 36 Lab: 54

Prerequisite: AGOR 53

Advanced repair and maintenance of mid-horsepower gasoline and diesel engines. Multi-cylinder air- and water-cooled engines used in landscape, industrial, and agricultural applications. Repair of riding mowers, generator engines, air compressor engines, 2-cycle and 4-cycle engines, spraying equipment, all-terrain vehicles, and other related gas-powered equipment. Field trips required.

Course Schedule

AGOR 55 Diesel Engine Repair

3 Units (Degree Applicable, CSU)

(May be taken for option of letter grade or Pass/No Pass)

Lecture: 36 Lab: 54

Repair and maintenance of diesel engines used to power industrial, landscape, and agricultural equipment. Includes hands-on experience maintaining, servicing, and repairing diesel engines.

Course Schedule

AGOR 56 Engine Diagnostics

3 Units (Degree Applicable, CSU)

(May be taken for option of letter grade or Pass/No Pass)

Lecture: 36 Lab: 54

Analysis and evaluation of tractor engine power failures with hands-on experience in the proper diagnostic procedures of power equipment.

Includes service, maintenance and repair of tractor electrical systems: electrical wiring, voltage regulators, generators, alternators, switches, gauges, batteries, and test equipment. Field trips are required.

Course Schedule

AGOR 57 Power Train Repair

3 Units (Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass)

Lecture: 36 Lab: 54

Service, maintenance, and repair of power trains. Includes hands-on experience with clutches, transmissions, differentials, power take-off units, and final drives used to transmit power on tractors and other outdoor power equipment. Field trips are required.

Course Schedule

AGOR 62 Irrigation Principles and Design**3 Units** (Degree Applicable, CSU)

(May be taken for option of letter grade or Pass/No Pass)

Lecture: 36 Lab: 54

Principles of irrigation, design techniques, sprinkler system components, and hydraulic principles used in nursery management, interior design, residential, and commercial landscapes. Special emphasis is given to water conservation. Field trips are required.

Course Schedule

AGOR 63 Irrigation Systems Management**3 Units** (Degree Applicable, CSU)

(May be taken for option of letter grade or Pass/No Pass)

Lecture: 36 Lab: 54

Systematic approach to water conservation in landscapes. Soil-plant-water relationships, evapotranspiration, irrigation schedules, salinity and drainage, and irrigation efficiency. Water measurement, soil moisture measurement, irrigation systems, and practical constraints affecting scheduling. California water supply and budget, water rights, local, state, and federal water institutions, and California water issues. Irrigation efficiency testing will be incorporated to demonstrate proper methods of water audits and system evaluation. Field trips are required.

Course Schedule

AGOR 64 Irrigation - Drip and Low Volume**3 Units** (Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass)

Lecture: 36 Lab: 54

Conservation of water in landscapes by utilization of drip and low-flow irrigation practices. Design, installation techniques, operation, and maintenance of drip and low-flow irrigation systems, including determination of irrigation requirements, selection of emitters and low-flow devices, and uniformity of water distribution. Includes hands-on experience in design and installation techniques. Field trips are required.

Course Schedule

AGOR 71 Construction Fundamentals**3 Units** (Degree Applicable, CSU)

(May be taken for option of letter grade or Pass/No Pass)

Lecture: 36 Lab: 54

Construction techniques and tools used in landscaping with construction projects that include surveying techniques, utilities (gas, water, and electricity), woodworking, and masonry.

Course Schedule

AGOR 72 Landscape Hardscape Applications**3 Units** (Degree Applicable, CSU)

(May be taken for option of letter grade or Pass/No Pass)

Lecture: 36 Lab: 54

Landscape construction pertaining to hardscape featured in the landscape. Estimation and installation of fences, walks, planters, patios, lighting, barbecues, gazebos, decks, ponds, spas, fountains and pools. Students will gain hands-on experience in the laboratory activities.

Course Schedule

AGOR 73 Landscaping Laws, Contracting, and Estimating**3 Units** (Degree Applicable, CSU)

(May be taken for option of letter grade or Pass/No Pass)

Lecture: 54

Landscape laws, contracting, and estimating as they pertain to landscape construction. Information covered will be helpful for the Landscape Contractor's (C-27 classification) licensing exam administered by the state of California. Off campus assignments required.

Course Schedule

AGOR 75 Urban Arboriculture**3 Units** (Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass)

Lecture: 36 Lab: 54

Care and management of ornamental trees. Includes pruning techniques, fruit tree care, bracing, cabling, and pest control. Safe practices in the use of equipment including the use of ropes, chippers, boom trucks, chain saws, and identification and evaluation of common trees. Prepares students for the tree worker and arborist certification (ISA) exams.

Course Schedule

AGOR 91 Work Experience in Horticulture**1-4 Units** (Degree Applicable)

(May be taken for Pass/No Pass only)

Lab: 75-300

Prerequisite: Three units of any AGOR course, with the exception of AGOR 1, must be taken prior to or concurrent with AGOR 91. Compliance with work experience regulations as designated in the College Catalog.

Course Schedule