AGRICULTURAL AND ENVIRONMENTAL PLANT SCIENCES (AEPS)

AEPS Courses

AEPS 101. Orientation to Horticulture and Crop Science. 1 unit
CR/NC
Term Typically Offered: F
Discussion of horticulture, field crop, and plant protection careers. Examination of Department's curriculum, including its field, orchard and greenhouse operations. Introduction to student and professional organizations. Discussion of advising and academic resources. Required of all Horticulture and Crop Science students. Credit/No Credit grading only. 1 lecture.

AEPS 110. People, Pests and Plagues. 4 units
GE Area B2; GE Area B4
Term Typically Offered: F, W, SP
Introduction to the science of entomology, focusing on insect identification, biology, ecology, and interactions with humans. Insect pest and beneficial species, and their role in shaping how we live, work and eat. Not open to Agricultural and Environmental Plant Sciences majors or Wine and Viticulture majors (viticulture concentration). 3 lectures, 1 activity. Fulfills GE B2 & B4.

AEPS 120. Principles of Horticulture and Crop Science. 4 units
Term Typically Offered: F, W, SP
Introduction to horticulture and crop science. Basic plant processes, classification, anatomy, physiology, and biotechnology. Effect of environment on plants and how we control it. Introduction to plant growth including propagation, media, irrigation, nutrition, management, harvest, and post harvest handling. People's use of plants. Field trip required. 3 lectures, 1 laboratory.

AEPS 123. Landscape Installation and Maintenance. 4 units
Term Typically Offered: W
Prerequisite: AEPS 120.
Planting and maintenance of trees, shrubs, ground covers, perennial plantings, color beds, specialty plantings, and small turf areas. Site selection, cultural requirements, scheduling of maintenance activities, pruning, landscape renovation and irrigation system repair. Equipment operation, maintenance, and safety. Speakers from industry. 3 lectures, 1 laboratory.

AEPS 124. Plant Propagation. 4 units
Term Typically Offered: SP
Prerequisite: AEPS 120 and BOT 121.
Plant propagation practices with emphasis on understanding why practices are used, how they work, and how they are applied in commercial horticulture. Field trip required. 3 lectures, 1 laboratory.

AEPS 126. Landscape Construction. 3 units
Term Typically Offered: F
Prerequisite: AEPS 120.
Design, construction techniques, and materials used in landscape and horticulture construction. Material quantity estimating, sustainable building practices, construction material substitutions, tools and equipment associated with landscape and horticulture construction, and equipment safety. Field trip required. 2 lectures, 1 laboratory.

AEPS 127. Horticulture and Landscape Design. 4 units
Term Typically Offered: W
Aesthetic aspects of environmental horticulture, introduction to computer aided design, presentation techniques and garden history. Field trip required. 2 lectures, 2 laboratories.

AEPS 132. Pomology I. 4 units
Term Typically Offered: W
Prerequisite: AEPS 120.
Orchard design and development, cultural practices, physiological responses of trees to cultural practices, propagation and strategies to maximize orchard profitability and sustainability. Not open to students with credit in AEPS 250. 3 lectures, 1 laboratory.

AEPS 133. Pomology II. 4 units
Term Typically Offered: SP
Prerequisite: AEPS 132.
Analysis of production and management strategies for major fruit and nut crops in California. 3 lectures, 1 laboratory.

AEPS 150. Forage Crops. 4 units
Term Typically Offered: F

AEPS 175. Beekeeping. 3 units
Term Typically Offered: F, SP
Studies and exercises in the handling of European honey bees with special reference to pollination of commercial crops. Honey processing and marketing. Hive inspection and disease detection. 2 lectures, 1 laboratory.

AEPS 190. California Vegetable Production. 4 units
Term Typically Offered: SP
Prerequisite: AEPS 120.
History, botany, growth characteristics and climatic adaptation, pests, and harvesting methods for the most important vegetable crops grown in California. Use of transplants, plastic mulches and row covers in vegetable production. Current topics in agriculture important to the vegetable industry. Field trip to a major California vegetable production area required. Survey of vegetable production for Agricultural and Environmental Plant Sciences majors. 3 lectures, 1 laboratory.
AEPS 200. Special Problems for Undergraduates. 1-4 units
Term Typically Offered: F,W,SP,SU
Prerequisite: Consent of instructor.
Individual investigation, research, studies, or surveys of selected problems. Total graduation credit limited to 4 units, with a maximum of 4 units per quarter. Report required.

AEPS 203. Organic Enterprise Project. 2 units
CR/NC
Term Typically Offered: F, W, SP
Beginning field experience in production and marketing of organic vegetable crops. May include cultural practices, harvesting, processing, sales and marketing activities. Credit/No Credit grading only. 1 lecture, 1 activity.

AEPS 205. Orchard and Vegetable Enterprise Project. 2 units
CR/NC
Term Typically Offered: F, W, SP
Hands-on experience in the production and marketing of fruit and vegetable crops such as blueberries, stone fruits, pomegranates, apples, citrus, avocados, broccoli, cauliflower, sweet corn, tomatoes, peppers, squash and lettuce. Students will also receive hands-on training in crop management. Not open to students with credit in AEPS 202 or AEPS 204. Credit/No Credit grading only. 1 lecture, 1 activity.

AEPS 212. Environmental Horticulture Enterprise Project I. 2 units
CR/NC
Term Typically Offered: F, W, SP
Beginning field experience in environmental horticulture. Selection and completion of a management/production project. Credit/No Credit grading only. 1 lecture, 1 activity.

AEPS 215. Floral Design I. 3 units
Term Typically Offered: F, W Fundamentals of theory, techniques and skills currently practiced in the floral industry. Intended as consumer education for non-majors as well as initial preparation for pre-professionals. Includes applied art principles, post-harvest care and handling practices, and proper use of florist tools and materials in developing basic designs. 1 lecture, 2 laboratories.

AEPS 225. Floral Design II. 3 units
Term Typically Offered: SP
Prerequisite: AEPS 215.
Expanded exploration and application of design theory to commercial products and services in the retail floral industry. Appropriate utilization of current sales and business practices in a florist setting. Advanced techniques and skills for construction of designs for weddings, advanced arrangements, and designs for events. 1 lecture, 2 laboratories.

AEPS 230. Environmental Horticulture. 4 units
Term Typically Offered: F
Technical information and recommendations for the residential horticulturist. Propagation, pruning, planting, media, fertilizers, pest and weed control, landscaping, maintenance, identification and care of ornamental plants. Being a wise horticultural consumer. Not open to Agricultural and Environmental Plant Sciences majors. 3 lectures, 1 laboratory.

AEPS 233. Plant Materials I. 4 units
Term Typically Offered: SP
Identification, habits of growth, cultural requirements, and use of ornamental plants in the landscape. 3 lectures, 1 laboratory.

AEPS 234. Plant Materials II. 4 units
Term Typically Offered: F
Identification, habits of growth, cultural requirements, and use of ornamental plants in the landscape. 3 lectures, 1 laboratory.

AEPS 240. Commercial Seed Production. 4 units
Term Typically Offered: SP
Prerequisite: AEPS 120 or AEPS 260.
Production of field and vegetable seed. Seed technology, germination, quality control, seed enhancement, storage and handling of seed, and seed laws. Field trip to a seed conditioning/seed enhancement facility required. 3 lectures, 1 laboratory.

AEPS 244. Precision Farming. 4 units
Term Typically Offered: W
Prerequisite: AEPS 133 or AEPS 190 or AEPS 260 or BRAE 237 or BRAE 239.
Precision agriculture applications. Integrating GIS, GPS, and remote sensing technologies with site-specific farming practices to optimize agricultural productivity. Field trip required. 3 lectures, 1 laboratory. Crosslisted as AEPS/BRAE 244.

AEPS 245. Horticultural Production Techniques. 4 units
Term Typically Offered: F
Prerequisite: AEPS 120 or AEPS 260.
Applied principles of plant growth in relation to the production horticulture industry. Emphasis on container media, fertilizing practices, irrigation, plant growth regulators, and miscellaneous growing structures. Field trip required. 3 lectures, 1 laboratory.

AEPS 270. Selected Topics. 1-4 units
Term Typically Offered: TBD
Prerequisite: Open to undergraduate students and consent of instructor.
Directed group study of selected topics. The Class Schedule will list topic selected. Total credit limited to 8 units. 1 to 4 lectures.

AEPS 301. Principles of Landscape Design. 4 units
Term Typically Offered: TBD
Prerequisite: AEPS 127, and AEPS 233 or AEPS 234.
Introduction to basic principles and elements of residential landscape design, design theory, plant composition, creative problem solving, functional and aesthetic uses of landscape materials, client and maintenance criteria, and sustainable design concepts. Intermediate computer aided design drafting and drawing skills. 2 lectures, 2 laboratories.

AEPS 304. Introduction to Plant Breeding. 4 units
Term Typically Offered: W, SP
Prerequisite: AEPS 120 and STAT 218. Recommended: one of the following: AEPS 132, AEPS 190, AEPS 230, AEPS 245, AEPS 250, or WVIT 233.
Principles of qualitative and quantitative genetics useful in the development of new plant varieties. Procedures for the creation of genetic variability, testing procedures, and selection schemes for development of improved plant types. 4 lectures.
AEPS 312. Environmental Horticulture Enterprise Project II. 2 units
CR/NC
Term Typically Offered: F, W, SP
Prerequisite: Consent of instructor.

Field experience in environmental horticulture. Selection and completion of a management/production project under faculty supervision. Credit/No Credit grading only. 1 lecture, 1 activity.

AEPS 313. Agricultural Entomology. 4 units
Term Typically Offered: F, SP
Prerequisite: AEPS 120 or BOT 121; and one of the following: CHEM 110, CHEM 111, or CHEM 127.

The science of entomology as it relates to insects of importance in agriculture. Focus on the biology, ecology and identification of insects and mites important to California horticulture, field crops and landscapes. 3 lectures, 1 laboratory.

AEPS 315. Principles of Organic Crop Production. 4 units
GE Area B7; GE Area F
Term Typically Offered: F, SP
Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; completion of GE Area B1 with a grade of C- or better in at least one of the courses; and completion of GE Areas B2, B3, and B4.

Origins, application, regulation and technology of organic crop production. Theoretical and practical issues surrounding organic crop production from a cross-disciplinary perspective. Topics include the history of the organic movement; current regulation and certification; and field management practices and technologies. Features industry guest lecturers. Field trip required. 3 lectures, 1 activity. Crosslisted as AEPS/AG 315. Fullfills GE Area B7 or GE Area F.

AEPS 321. Weed Biology and Management. 4 units
Term Typically Offered: F, SP
Prerequisite: AEPS 120 or BOT 121.

Weed ecology, biology, and implications for management. Identification of weedy and invasive plant species in annual agricultural, perennial semi-managed, range, aquatic, and forest ecosystems, to elucidate weaknesses and strengths in order to facilitate vegetation management. Organic, cultural, biological, mechanical, and chemical methods and their integrated pest management (IPM) uses. 3 lectures, 1 laboratory.

AEPS 323. Plant Pathology. 4 units
Term Typically Offered: F, SP
Prerequisite: BIO 162 or BOT 121.

Comprehensive study of the causes and effects of diseases of plants. Designed to lead to an understanding of plant pathology, and modern methods to control plant disease. 2 lectures, 2 activities. Crosslisted as AEPS/BOT 323.

AEPS 327. Vertebrate Pest Management. 4 units
Term Typically Offered: W
Prerequisite: Junior standing.

Vertebrate pests injurious to crops, livestock, forest products, wildlife, stored products and humans. Life habits, identification, control methods, and materials. Related laws and regulations. 3 lectures, 1 laboratory.

AEPS 329. Plants, Food, and Biotechnology. 4 units
GE Area B7; GE Area F
Term Typically Offered: F
Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; completion of one course in GE Area B1 with a grade of C- or better; and one of the following courses: AEPS 120, BIO 111, BIO 114, BIO 161, or BOT 121.

Agriculture as applied biology and its impact on civilization. Application of technology to increase the efficiency of food production. Genetics and biotechnology; culminating in an assessment of genetically engineered foods, the myths, the controversy, the science. Not open to Agricultural and Environmental Plant Sciences majors. 3 lectures, 1 laboratory. Crosslisted as AEPS/BOT 329. Fullfills GE Area B7 or GE Area F.

AEPS 331. Advanced Viticulture - Fall. 4 units
Term Typically Offered: F, SU
Prerequisite: AEPS/WVIT 231 or WVIT 232 or WVIT 233.

Advanced viticulture theory and practice, with an emphasis on fall season activities. Identification of rootstocks, wine and table grapes, species taxonomy and diversity, and breeding for grapevine improvement. Field trips required. 3 lectures, 1 laboratory. Crosslisted as AEPS/WVIT 331.

AEPS 332. Landscape Contracting. 4 units
Term Typically Offered: TBD
Prerequisite: AEPS 126 and AEPS 127.

Practices in supervising personnel and applying standard techniques in landscape construction. Cost finding and estimating for landscape trades. 3 lectures, 1 laboratory.

AEPS 333. Greenhouse Vegetable Production. 2 units
Term Typically Offered: F
Prerequisite: AEPS 120; CHEM 111 or CHEM 127; and SS 221.

Development, practices, history, and future of crop production in greenhouses. Research applications, commercial applications, production problems, marketing, and economics. Special emphasis on growing transplants in greenhouses and use of nutrient solutions. Field trips to a commercial greenhouse operation and/or analysis lab required. 2 activities.

AEPS 334. Greenhouse Vegetable Enterprise Project. 2 units
CR/NC
Term Typically Offered: W, SP
Prerequisite: AEPS 333.

Hands-on experience in the production, management and marketing of a variety of hydroponically-grown, greenhouse vegetables. Credit/No Credit grading only. 1 lecture, 1 activity.

AEPS 339. Internship in Horticulture and Crop Science. 1-12 units
CR/NC
Term Typically Offered: F, W, SPSU
Prerequisite: Consent of instructor.

Selected Horticulture and Crop Science students will spend up to 12 weeks with an approved agricultural/horticultural firm engaged in production or related business. Time will be spent applying and developing production and managerial skills and abilities. One unit of credit may be allowed for each full week of completed and reported internship. Degree credit limited to 6 units. Credit/No Credit grading only.
AEPS 340. Principles of Greenhouse Environment. 4 units  
Term Typically Offered: SP  
Prerequisite: AEPS 245.  
Analysis of problems and practices affecting the contemporary commercial horticulturist. Analysis and operation of greenhouses and related equipment stressing the effect of environment on plant growth. Field trip required. 3 lectures, 1 laboratory.

AEPS 341. Cut Flower Production. 4 units  
Term Typically Offered: F  
Prerequisite: AEPS 120.  
Production of cut flowers and other fresh florists’ commodities in greenhouses and outdoors. Preparation and scheduling of such commodities for major markets. Field trip required. 3 lectures, 1 laboratory.

AEPS 342. Potted Plant Production. 4 units  
Term Typically Offered: W  
Prerequisite: AEPS 245.  
Production of major commercial flowering potted plants in greenhouses and outdoors. Preparation and scheduling of potted flowering greenhouse crops for major markets. Field trip required. 3 lectures, 1 laboratory.

AEPS 343. Turfgrass Management. 4 units  
Term Typically Offered: TBD  
Prerequisite: AEPS 120 or BOT 121; and SS 120 or SS 121.  
Turfgrass species and uses. Principles of turfgrass physiology and communities under different environments. Overview of procedures and equipment for propagation, mowing, irrigation, fertilization, aerification, and pest control. 3 lectures, 1 laboratory.

AEPS 350. Abiotic Plant Problems. 3 units  
Term Typically Offered: W  
Prerequisite: AEPS 124; CHEM 111 or CHEM 127; and SS 120 or SS 121.  
Diagnosis of physiological disorders associated with environmental and nutritional factors. Particular emphasis on the systematic inquiry process. Case histories, multimedia use. 2 lectures, 1 laboratory.

AEPS 351. Experimental Techniques and Analysis. 4 units  
Term Typically Offered: W  
Prerequisite: Junior standing and MATH 118 or equivalent, and STAT 218.  
Principal experimental designs used in agriculture and methods of statistical analysis of data collected from each. Statistical software. Field practice in planning and layout of typical experiments. 3 lectures, 1 laboratory.

AEPS 355. Citrus and Avocado Fruit Production. 4 units  
Term Typically Offered: SP  
Prerequisite: AEPS 120 or AEPS 250.  
World citrus and avocado production and marketing. Orchard management techniques. Relationship of environment to species, cultivar, and rootstock selection. Field trip to a major California production area required. 3 lectures, 1 laboratory.

AEPS 381. Native Plants for California Landscapes. 4 units  
Term Typically Offered: SP  
Prerequisite: BIO 114 or BOT 121; and junior standing.  
Survey of California flora with emphasis on landscape use and potential. Plant recognition, identification, propagation and culture. Utilization of native plants in landscape design and habitat restoration. Field trip required. 3 lectures, 1 laboratory.

AEPS 400. Special Problems for Advanced Undergraduates. 1-4 units  
Term Typically Offered: F,W,SP,SU  
Prerequisite: Consent of instructor.  
Individual investigation, research, studies, or surveys of selected problems. Total degree credit limited to 4 units, with a maximum of 4 units per quarter. Report required.

AEPS 406. Advanced Weed Management. 4 units  
Term Typically Offered: W  
Prerequisite: AEPS 321.  
Advanced coverage of sustainable weed and invasive plant management technologies. Concepts include environmental fates, plant metabolism, ecology and biology of weeds, and mechanisms of action of herbicides. Plant biotechnology as it relates to herbicide resistance in crops and weeds. 4 lectures.

AEPS 410. Crop Physiology. 4 units  
Term Typically Offered: SP  
Prerequisite: AEPS 120 or BIO 263; BIO 162 or BOT 121; and CHEM 216 or CHEM 312.  
Ecological and physiological factors associated with the production of crop plants. Physiological and biochemical processes that elucidate the mechanisms of whole plant performance and responses to the environment. 4 lectures.

AEPS 414. Grape Pest Management. 4 units  
Term Typically Offered: F  
Prerequisite: AEPS/WVIT 231, WVIT 232 or WVIT 233; AEPS/BOT 323.  
Comprehensive survey of major grape pests including diseases, insects, weeds, vertebrates, and nematodes. Identification and biology of grape pests and natural enemies, monitoring, and integrated pest management (IPM) strategies, including cultural, biological, and chemical controls. Guest lectures. 3 lectures, 1 activity. Crosslisted as AEPS/WVIT 414.

AEPS 420. Organic Crop Production Systems. 4 units  
Term Typically Offered: W  
Prerequisite: AEPS 120 or BOT 121; SS 120; and junior standing.  
Systems approach to crop management, soil fertility and plant nutrition, and crop and pest management including current regulations and modern technologies implemented in organic crop production. Intended for students with a background in the plant sciences. Field trip required. 3 lectures, 1 activity.
AEPS 421. Postharvest Technology of Horticultural Crops. 4 units
Term Typically Offered: W
Prerequisite: Junior standing.

Respiration, ethylene, ripening and senescence; modified atmosphere packaging, controlled atmosphere storage, packinghouses and transportation; survey of postharvest techniques to maximize commodity shelf-life. Field trip required. 3 lectures, 1 laboratory.

AEPS 423. Advanced Vegetable Science. 4 units
Term Typically Offered: TBD
Prerequisite: AEPS 190 or AEPS 260.

Agricultural land conservation; current laws impacting vegetable production and marketing. Environmental and cultural effects on selected vegetables including specific effects on growth, flowering, fruiting and yield. Field trip to desert vegetable production regions required. 3 lectures, 1 laboratory.

AEPS 424. Nursery Crop Production. 4 units
Term Typically Offered: W
Prerequisite: AEPS 124.

Comprehensive and historical overview of the nursery industry. Types of wholesale nurseries and their products. Plant production systems, scheduling, and marketing. Emphasis on medium to large woody plants and deciduous field-grown ornamental trees and shrubs in the western U.S. Field trip required. 3 lectures, 1 laboratory.

AEPS 425. Arboriculture. 4 units
Term Typically Offered: SP
Prerequisite: AEPS 123, AEPS 233, and AEPS 234 or NR 208 for FNR majors.

Theory and practice for the care and management of ornamental trees. Selection, planting, establishment, maintenance of specimen trees. Professional use of ropes and safety equipment. Tree evaluation, scheduling cultural practices, bracing, cabling, specialty hand and power equipment operation, safety regulations. 2 lectures, 2 laboratories.

AEPS 427. Disease and Pest Control Systems for Ornamental Plants. 4 units
Term Typically Offered: W
Prerequisite: AEPS 120, AEPS 313, AEPS 321, and AEPS/BOT 323.

Recognition, prevention and control of diseases, insect/mite pests and weeds that impact commercial ornamental plantings. Integrated pest management strategies presented including biological, cultural, and safe and proper pesticidal controls. Laboratory emphasizes monitoring, problem solving and application of appropriate pest control measures. 3 lectures, 1 laboratory.

AEPS 431. Insect Pest Management. 4 units
Term Typically Offered: SP
Prerequisite: AEPS 313.

Principles of insect and mite pest management, including integrated pest management (IPM), applications of ecological theory to pest management, cultural, biological and chemical controls, pesticide resistance management, insect and mite monitoring, biotechnology applications, pesticide laws and regulations, pest control advisor and qualified applicator licensing and certification. Field trip required. 3 lectures, 1 laboratory.

AEPS 432. Specialized Operations for Golf Courses and Athletic Fields. 4 units
Term Typically Offered: TBD
Prerequisite: AEPS 343.

Advanced maintenance and operation of golf course facilities and athletic field complexes. Specialized turf establishment and maintenance, environmental concerns, finance and personnel management, and professional development. Field trip required. 3 lectures, 1 laboratory. Not open to students with credit in AEPS 430 or AEPS 433.

AEPS 434. Landscape Management. 4 units
Term Typically Offered: TBD
Prerequisite: AEPS 123 and AEPS 126 and junior standing.

Maintenance procedures and operations. Operating a landscape management business. Estimating, scheduling, recordkeeping and implementation of landscape maintenance projects. Interior landscape maintenance. 3 lectures, 1 laboratory.

AEPS 435. Advanced Landscape Design. 4 units
Term Typically Offered: TBD
Prerequisite: AEPS 233, AEPS 234, AEPS 301. Recommended: AEPS 381.

Advanced principles of landscape design for residential properties. Design process, form, and space composition emphasized. Application of sustainable design concepts. Computer aided design applications, including three-dimensional design, emphasized. Field trip required. 2 lectures, 2 laboratories.

AEPS 437. Park and Public Space Management. 4 units
Term Typically Offered: TBD
Prerequisite: Junior standing.

Management and maintenance of private and public parks, arboreta, botanical gardens and recreational areas. Maintenance personnel management, safety and liability issues. Field trips required. 3 lectures, 1 laboratory.

AEPS 441. Biological Control for Pest Management. 4 units
Term Typically Offered: F
Prerequisite: AEPS 313.

Control of arthropods, weeds and vertebrates to include history of biocontrol; biology of beneficial arthropods; methods of introduction, augmentation and conservation; and case studies. Identification of beneficial arthropods to appropriate taxonomic level. Technology, laws and regulations governing use of biocontrol agents. Field trips to insectaries, quarantine facilities and/or crop production areas. 3 lectures, 1 laboratory.

AEPS 445. Cropping Systems. 4 units
Term Typically Offered: W
Prerequisite: AEPS 120; or BOT 121 and SS 120 or SS 121; or graduate standing.

Classification and description of agricultural systems of the world. Cropping systems as land management plans. Systems approaches to improvement of agricultural situations. Consideration of human factors and the agroecosystem in efforts to create a more sustainable agriculture. Field trip required. 3 lectures, 1 activity.
AEP5. Selected Topics in Horticulture and Crop Science. 1-4 units
Term Typically Offered: TBD
Prerequisite: Consent of instructor.

Directed group study of selected topics for advanced students. The Class Schedule will list topic selected. Total credit limited to 12 units. 1 to 4 seminars.

AEP571. Selected Topics Laboratory in Horticulture and Crop Science. 1-4 units
Term Typically Offered: TBD
Prerequisite: Consent of instructor.

Directed group laboratory of selected topics for advanced students. The Class Schedule will list topic selected. Total credit limited to 12 units. 1 to 4 laboratories.

AEP575. Applied Systematics for Agriculture. 4 units
Term Typically Offered: W
Prerequisite: Graduate standing. Recommended: a course in basic entomology, plant pathology, and weed science.

The application of evolutionary, phylogenetic, taxonomic and biogeographic principles as they pertain to current agricultural issues in the US. Attention is given to invasive species and their impact on California’s agricultural industry. The course focus is insects, but invasive plants and microorganisms are also addressed. 4 seminars.

AEP581. Graduate Seminar in Crop/Fruit Production. 3 units
Term Typically Offered: W
Prerequisite: Graduate standing.

Group study of current problems, trends and research results pertaining to production or marketing of field, vegetable or fruit crops. 3 seminars.

AEP596. Thesis in Crop Science. 1-9 units
Term Typically Offered: F, W, SP
Prerequisite: Graduate standing and consent of instructor.

Systematic research of a significant problem in Crop Science. Thesis will include problem identification, significance, methods, data analysis, and conclusion. Students must enroll every quarter in which facilities are used or advisement is received. Degree credit limited to 6 units.

AEP597. Thesis in Environmental Horticulture Science. 1-9 units
Term Typically Offered: F, W, SP
Prerequisite: Graduate standing and consent of instructor.

Systematic research of a significant problem in environmental horticulture. Thesis will include problem identification, significance, methods, data analysis and conclusion. Students must enroll every quarter in which facilities are used or advisement is received. Degree credit limited to 6 units.

AEP598. Thesis in Fruit Science. 1-9 units
Term Typically Offered: F, W, SP
Prerequisite: Graduate standing and consent of instructor.

Systematic research of a significant problem in Fruit Science. Thesis will include problem identification, significance, methods, data analysis, and conclusion. Students must enroll every quarter in which facilities are used or advisement is received. Degree credit limited to 6 units.
AEPS 599. Thesis in Plant Protection Science. 1-9 units
Term Typically Offered: F, W, SP
Prerequisite: Graduate standing and consent of instructor.

Systematic research of a topic in plant protection science, including weed science, entomology, plant pathology, nematology or vertebrate management. Thesis to describe the problem and its significance, methodology, results, data analysis, discussion and conclusion. Enrollment required every quarter in which facilities are used or advisement received. Degree credit limited to 6 units. Total credit limited to 9 units.