

NUTRITION (NUTR)

155 INTRODUCTION TO NUTRITION 3 UNITS (Formerly HED 155)

3 hours lecture

Introduction to the basic principles of nutrition and its relationship to good health. Evaluation of current nutritional information (and misinformation) with an emphasis on critical thinking to determine optimal dietary choices. Study of the major dietary goals and guidelines. Examination of weight maintenance techniques, eating disorders, food labeling, food safety, and special needs at various stages in the life cycle. Not open to students with credit in HED 155.

AA/AS GE, CSU, CSU GE, UC

158 NUTRITION FOR FITNESS AND SPORTS 3 UNITS (Formerly HED 158)

3 hours lecture

Investigates the effects of nutrition and various dietary regimens on athletic performance, physical fitness and general health. Compares the physiological effects of optimal nutrition vs. inadequate nutrition for the general population as well as athletes. Cultural, sociological and psychological influences will be examined. Discussion of "fads" and dietary supplements is included. Not open to students with credit in HED 158.

CSU, CSU GE

255 SCIENCE OF NUTRITION 3 UNITS (Formerly HED 255)

C-ID NUTR 110

Prerequisite: "C" grade or higher or "Pass" in BIO 130, 131 and CHEM 115 or 120 or equivalent
3 hours lecture

Establishes the relationship between foods and science through the study and integration of chemistry, biology and nutrition science. The metabolism and functions and sources of nutrients will be covered in detail to correlate the role they have in promotion of health and disease prevention. The challenges that occur during the human life cycle and how nutrient needs change will be studied. Includes evaluation from a scientific perspective of current concepts, controversies, and dietary recommendations. Nutritional issues as they relate to weight maintenance, eating disorders, food labeling, food safety and special needs at various stages in the life cycle will be thoroughly examined. Not open to students with credit in HED 255.

CSU, CSU GE, UC

OCEANOGRAPHY (OCEA)

112 INTRODUCTION TO OCEANOGRAPHY 3 UNITS

3 hours lecture

Physical science course which examines major aspects of the marine environment. Topics include the origin of the oceans, plate tectonics, seafloor features, seawater properties, ocean climate, currents, waves, tides, coastal landforms, marine ecology, pollution, and resources. The history and development of oceanography and the present and future importance of the oceans are also discussed.

AA/AS GE, CSU, CSU GE, IGETC, UC

113 OCEANOGRAPHY LABORATORY 1 UNIT

Prerequisite: "C" grade or higher or "Pass" in OCEA 112 or equivalent or concurrent enrollment

3 hours laboratory

Hands-on oceanographic laboratory experience to accompany and augment OCEA 112. Includes laboratory and field investigations of the marine environment emphasizing the geological, chemical, physical and biological aspects of the ocean.

AA/AS GE, CSU, CSU GE, IGETC, UC

ORNAMENTAL HORTICULTURE (OH)

*UC credit limit: all CADD courses, ENGR 119, ENGR 129, OH 200, OH 201 combined: maximum credit, one course

102 XERISCAPE: WATER CONSERVATION IN THE LANDSCAPE 2 UNITS

2 hours lecture

Water management principles and practices as applied to the landscape. Topics include plant selection, landscape design principles for water conservation, irrigation system selection and management, soil preparation and management, and current topics and issues of California and United States water conservation efforts.

CSU

105 EDIBLES IN URBAN LANDSCAPES 1.5 UNITS

1.5 hours lecture

Covers the basics of cultivating edible plants in small scale urban settings, including annual and perennial vegetables as well as shrubs and trees that produce edible fruit. San Diego's climate allows for the production of many tropical and sub-tropical edibles as well as deciduous trees that require some winter chill. Topics include suitable crops, planting techniques, irrigation, fertilizers, maintenance, pests and diseases, and harvest and storage requirements.

CSU

114 FLORAL DESIGN I 3 UNITS

2 hours lecture, 3 hours laboratory

Theory and practice of basic geometric floral design, identification of flowers and foliage, and practical skills necessary for employment in the floral industry. Fresh, silk and dried flowers will be used.

CSU

116 FLORAL DESIGN II 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in OH 114 or equivalent

2 hours lecture, 3 hours laboratory

Theory and practice of parallel, vegetative, and contemporary line designs for the retail floral industry. Students will use fresh flowers, silks, dried flowers, foliage, organic and inorganic materials for creating floral designs with an emphasis on European influence and trends.

CSU

117 WEDDING DESIGN I 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in OH 114 or equivalent

2 hours lecture, 3 hours laboratory

Theory and practice of numerous styles of wedding bouquets and corsages including church and reception floral designs. Emphasis is on the skills, mechanics and speed necessary in the floral industry.

CSU

118 SPECIAL OCCASION FLORAL DESIGN 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in OH 114 or equivalent or one year high school floral design or trade experience

2 hours lecture, 3 hours laboratory

Learn to create unique floral arrangements used for parties, weddings, funerals and gala events. Arrangements will focus on the use of unusual and exotic flowers, containers and special mechanical props.

CSU

120 FUNDAMENTALS OF ORNAMENTAL HORTICULTURE 3 UNITS

2 hours lecture, 3 hours laboratory

Study of plant structure and function. Topics include basic principles of soil science and fertilizer requirements, and the growth of plants in regard to the environmental factors of water, light and temperature. The lab provides an overview of various skills needed in all fields of ornamental horticulture including pruning, basic equipment operation, fertilizer application, and general nursery skills.

CSU

121 PLANT PROPAGATION 3 UNITS C-ID AG-EH 116L

2 hours lecture, 3 hours laboratory

Principles of plant propagation from seed, cutting, budding, grafting, layering, division and tissue culture. Greenhouses, cold frames, mist chambers and other propagating structures will be discussed along with stock selection, use of rooting hormones, proper sanitation procedures, and protection of young seedlings from disease. Lab exercises include propagation of plant material by various methods and working with various structures, tools and equipment common to plant propagation.

CSU, UC

130 PLANT PEST CONTROL 3 UNITS C-ID AG-EH 120XT

2 hours lecture, 3 hours laboratory

Identification and control of insects, mites, spiders, snails, weeds and diseases that affect ornamental plants with an emphasis on their phylogenetic relationships, habits, habitats and important characteristics affecting the health of ornamental plants. Control methods will stress the relationships with predators and integrated pest management. The course will include study material for the Qualified Applicator Certificate and License.

CSU

140 SOILS 3 UNITS

2 hours lecture, 3 hours laboratory

Study of soil formation, characteristics, and classification with an emphasis on the management of various soil types with regard to pH, salinity, texture, organic matter control and other variables. The lab will include investigation of soil conditions, problems and management solutions common to soils in Southern California.

CSU, UC

150 LANDSCAPE ARCHITECTURE I 3 UNITS

2 hours lecture, 3 hours laboratory

The course focuses on principles of landscape architecture for public and residential projects with an emphasis on the creation of usable, pleasant outdoor spaces. Topics include strategies to create cohesive site and planting plans using industry drafting standards. The lab emphasizes hands-on design and drafting exercises.

CSU

151 LANDSCAPE ARCHITECTURE II 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in OH 150 or equivalent

2 hours lecture, 3 hours laboratory

Principles of landscape architecture for public and residential projects with an emphasis on the creation of usable, pleasant outdoor spaces. Focuses on cohesive set of construction drawings (site plan, planting plan, grading plan, lighting plan, and basic construction details) using industry drafting standards. The lab emphasizes hands-on design exercises and drafting of landscape projects using hand graphics and computer-generated drawings.

CSU

170 PLANT MATERIALS: TREES AND SHRUBS 3 UNITS

3 hours lecture

Identification, cultural requirements, and landscape uses of ornamental trees and shrubs common to the California landscape.

CSU, UC

171 LANDSCAPE DRAFTING 1 UNIT

.5 hour lecture, 1.5 hours laboratory

Introduction to basic drafting practices used in landscape design. Includes topography drawings, concept plans, construction drawings, and construction and installation details. Upon completion, students should be able to complete a set of working drawings for a residential landscape.

CSU, UC

172 INTRODUCTION TO LANDSCAPE DESIGN 3 UNITS

Recommended Preparation: "C" grade or higher or "Pass" in OH 171 or equivalent

2 hours lecture, 3 hours laboratory

Principles of landscape design for residential projects with an emphasis on residential landscape design and the creation of usable, pleasant outdoor spaces. Focuses on size and placement of plants, walks, patios and other structures in the residential landscape. The lab emphasizes practice in the design and drafting of actual landscape projects.

CSU, UC

173 INTERMEDIATE LANDSCAPE DESIGN 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in OH 172 or equivalent

2 hours lecture, 3 hours laboratory

Landscape design course covering advanced site analysis, use relationships, outside furniture and structures, color presentations and client/designer relationships as they relate to small and medium scale landscape projects.

CSU, UC

174 TURF AND GROUND COVER MANAGEMENT 3 UNITS

2 hours lecture, 3 hours laboratory

Building, care and maintenance of turf grasses and ground covers in parks and landscaping. Includes soil preparation, planting, fertilizing, maintenance of common and special turf grasses and ground covers, and pest and disease problems and their control.

CSU

175 ADVANCED LANDSCAPE DESIGN 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in OH 173 or equivalent

2 hours lecture, 3 hours laboratory

Advanced development, design and presentation of residential landscape projects incorporating slope analysis, codes and ordinances, client or institutional requirements, detail sheets, sections and cost estimates. Client presentation of concept, lighting and planting

plans will utilize sketches, demonstration boards and digital presentation techniques.

CSU, UC

180 PLANT MATERIALS: ANNUALS AND PERENNIALS 3 UNITS

3 hours lecture

Identification, cultural requirements, and landscape value of common annuals and perennials used as bedding plants, annual color, and in the commercial floral industry.

CSU, UC

200 INTRODUCTION TO COMPUTER-AIDED LANDSCAPE DESIGN 3 UNITS

2 hours lecture, 3 hours laboratory

Introduction to computer-aided landscape design using AutoCAD software. Creation of site plans, landscape plans, sprinkler plans, contour maps and landscape estimates. Elevation and perspective drawings are also created. Also listed as CADD 200. Not open to students with credit in CADD 200.

CSU, *UC credit limit

201 ADVANCED COMPUTER-AIDED LANDSCAPE DESIGN 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in CADD/OH 200 or equivalent

2 hours lecture, 3 hours laboratory

Use of computer-aided landscape design software for the application of graphics, symbols, patterns, layouts, text and scales for the development of design drawings, concept plans, construction documents, and cost estimates for residential landscape projects. Also listed as CADD 201. Not open to students with credit in CADD 201.

CSU, *UC credit limit

220 LANDSCAPE CONSTRUCTION: CONCRETE AND MASONRY 3 UNITS

C-ID AG-EH 132X

2 hour lecture, 3 hours laboratory

Study of landscape construction methods and materials. Topics include: landscape contract law; concrete flat work including stamped concrete; brick, block and stone masonry; and proper design and construction of retaining and free standing walls. Grading and installation of plant material will also be covered.

CSU

221 LANDSCAPE CONSTRUCTION: IRRIGATION AND CARPENTRY 3 UNITS

2 hours lecture, 3 hours laboratory

Study of landscape construction methods and materials. Topics include: irrigation and drainage plan reading, materials and components, installation and construction, installation and troubleshooting of control valves and control clocks; basic materials and methods for construction of decks, overhead structures, wooden fences and gates; code and design requirements for irrigation, drainage and landscape structures.

CSU

222 JAPANESE GARDEN DESIGN AND CONSTRUCTION 1 UNIT

.5 hour lecture, 1.5 hours laboratory

An introduction to Japanese garden design concepts and construction methods. The course will cover the historical development of Japanese gardens and, based on the 11th century garden design book *Sakuteiki*, design concepts and construction of garden elements such as stone compositions, streams, ponds, waterfalls, Zen-influenced stone gardens (dry landscape garden), water-basins, introduction to traditional pruning and other basic design, construction and maintenance techniques.

225 LANDSCAPE CONTRACTING 3 UNITS

3 hours lecture

Covers the practices in applying standard techniques in landscape construction and estimating for landscape trades. Reviews the rules, regulations and licensing laws governing landscape contractors set forth by the State of California. Includes an exploration of the field of landscape contracting and business practices associated with the landscape industry.

CSU

235 PRINCIPLES OF LANDSCAPE IRRIGATION 4 UNITS

4 hours lecture

Principles of hydraulics as applied to landscape irrigation systems, including static and dynamic pressures, pipe flows and velocities, pipe sizing, water hammer, pump selection and use. Introduction to system components including valves, backflow prevention devices, controllers, and pumps and pipe.

CSU

238 IRRIGATION SYSTEM DESIGN 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in OH 235 or equivalent or concurrent enrollment

2 hours lecture, 3 hours laboratory

Introduction to basic design and technical skills required to produce professional irrigation system designs. Building on the knowledge acquired in OH 235, students will design complete spray and low-volume systems, calculate hydraulic parameters and schedules, prepare details and specifications, practice presentation skills, analyze working designs, learn head spacing and pipeline layout, and specify equipment using manufacturers' catalogs. A design studio environment is used (including team building and mentoring exercises) to prepare students for entry-level employment in the irrigation design field.

CSU

240 GREENHOUSE PLANT PRODUCTION 3 UNITS

2 hours lecture, 3 hours laboratory

Study of greenhouse plant production. Emphasis on the programming of greenhouse crops common to Southern California. The course will cover equipment, structures, environmental control, estimation of crop production requirements, and production and sales of common greenhouse crops.

CSU

250 LANDSCAPE WATER MANAGEMENT 2 UNITS

1 hour lecture, 3 hours laboratory

Water management principles and practices for urban landscapes including water audit methods and certification, irrigation scheduling, water budgets, water use monitoring, and laws and regulations pertaining to urban landscape irrigation and runoff.

CSU

255 SUSTAINABLE URBAN LANDSCAPE PRINCIPLES AND PRACTICES 2 UNITS

Recommended Preparation: "C" grade or higher or "Pass" in OH 120, 170 or equivalent

2 hours lecture

Principles and practices of sustainable landscape design, construction and maintenance. The course provides a basic understanding of the holistic function of the landscape in the context of sustainability. Using a comprehensive systems approach, learn to investigate, analyze, and apply sustainable environmental practices to a project site. Practice communicating ideas, research, and solutions, creatively and confidently via oral presentations.

CSU, UC

260 ARBORICULTURE 3 UNITS

2 hours lecture, 3 hours laboratory
Introductory course in the study and practice of arboriculture: the knowledge and care of individual trees living in populated areas. The course will familiarize students with the principles and practices of selecting, establishing, and maintaining trees, including tree biology, planting, pruning, diagnosis and preventative care, hazard evaluation, safe work practices, and tree valuation methods. The course can be used to prepare for the International Society of Arboriculture Certification Exam, and can provide Continuing Education units for those already certified.

CSU, UC

263 URBAN FORESTRY 1 UNIT

1 hour lecture, .5 hour laboratory
Introduces students to the theory and practice of conducting detailed tree inventories, management of public trees, tree evaluation for hazard assessment and risk reduction programs, legal aspects of trees, and appraisal of value methods for trees. Students will also learn site evaluation, benefits of tree volunteer organizations, priority action plans, and emergency response plans.

CSU

264 SAFE WORK PRACTICES IN TREE CLIMBING AND ARBORICULTURE 1 UNIT

.5 hour lecture, 1.5 hours laboratory
Study and training in the current accepted arboricultural practices in tree climbing and tree work with a chainsaw. Course content includes safety standards and procedures for: personal protective equipment, climbing equipment identification and preparation, pre-climb tree inspection, proper use of climbing equipment, safe operation and maintenance of chainsaws. The course can be used to help with preparation for the International Society of Arboriculture Certified Tree Worker Climber Specialist Exam, and can provide Continuing Education units for those already certified.

CSU

265 GOLF COURSE AND SPORTS TURF MANAGEMENT 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in OH 174 or equivalent or concurrent enrollment
2 hours lecture, 3 hours laboratory
Advanced study in the specialization of golf course and athletic field management. Includes specialized turf management techniques, specialized equipment, budget development, scheduling requirements, and administrative considerations.

CSU

266 SCIENCE IN PRACTICE FOR ARBORICULTURE 1 UNIT

1 hour lecture
An overview of the scientific concepts of arboriculture, especially as applied to the knowledge required of an International Society of Arboriculture Certified Arborist. Individuals who attain this certification are expected to apply current scientific knowledge and best management practices to the evaluation and care of trees.

CSU

275 DIAGNOSING HORTICULTURAL PROBLEMS 3 UNITS

Recommended Preparation: "C" grade or higher or "Pass" in OH 120, 130, 170 or equivalent
2 hours lecture, 3 hours laboratory
Explores methods for positive identification and understanding of symptoms for accurate diagnosis of plant problems in the landscape and nursery. Biotic and abiotic causal

agents including cultural influences, nutrient deficiencies and toxicities, pest and disease problems, soil salinity, aeration, drainage and irrigation problems will be discussed. Control and correction of disorders will be determined through an understanding of the organism or function involved.

CSU

290 COOPERATIVE WORK EXPERIENCE EDUCATION 1-4 UNITS

75 hours paid or 60 hours unpaid work experience per unit

Practical application of principles and procedures learned in the classroom to the various phases of horticulture. Work experience will be paid or unpaid at local nurseries and landscape-related companies. Placement assistance will be provided. Two on-campus sessions will be scheduled. *Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 75 paid hours or 60 unpaid hours per unit earned. May be taken for a maximum of 12 units.*

CSU

PARALEGAL STUDIES (PARA)

100 INTRODUCTION TO PARALEGAL STUDIES 3 UNITS

3 hours lecture

This course provides a historical perspective of the law and the profession of paralegal. The main focus is the role of the paralegal in the law office including client contact, ethical responsibilities, investigative fact finding, law office management, and legal restrictions. Students will be introduced to legal research and writing, substantive and procedural law, the court systems, and legal terminology.

CSU

110 CIVIL LITIGATION PRACTICE AND PROCEDURES 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent
3 hours lecture

The initial phase of an action, the issues of jurisdiction, the complaint and the discovery process will be examined. Court procedures, "Fast Track" and alternatives to litigation such as arbitration and mediation will be discussed. The basic elements of a tort claim will be reviewed as well as the Federal and State Rules of Evidence. Emphasis is placed on the paralegal's role and ethical and professional responsibilities in discovery procedures including e-discovery and trial practice.

CSU

120 INTRODUCTION TO ADMINISTRATIVE LAW 2 UNITS

2 hours lecture

This course is intended to be an introduction to Administrative Law and the role of the paralegal in various administrative agencies. Statutory law, case law, and administrative rules will be utilized to develop, for the student, an understanding of the role and authority of administrative agencies. Students completing this course will have the foundation to advance into the areas of Social Security, Worker's Compensation, and Labor and Employment Law.

CSU

121 SOCIAL SECURITY DISABILITY LAW 1 UNIT

1 hour lecture

This course is intended to be an introduction to Social Security Disability Law and the role of Paralegals in the Social Security Administration. Statutory law, case law and Social Security rules will be utilized to develop an understanding of the role and authority of the Social Security Administration. Students will also be able to assist applicants with the processing of their disability applications and claims. Students completing this course will have the foundation to advance into other specialty areas of Administrative Law.

CSU

125 BUSINESS ORGANIZATIONS 1 UNIT

1 hour lecture

Fundamentals of the formation of business entities such as sole proprietorships, partnerships, limited liability companies and corporations are included. Emphasis will be on formation, maintenance, taxation, termination of business entities, and the ethical constraints on paralegals.

CSU

130 LEGAL RESEARCH AND WRITING 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent

3 hours lecture

Includes in-depth legal research, writing research reports and subject matter reports on legal issues, case briefings, and citations using the uniform system of citation The Bluebook.

CSU

132 COMPUTER ASSISTED LEGAL RESEARCH (CALR) 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent

3 hours lecture

The study of computer software programs designed specifically for use in law offices and legal environments, including but not limited to specific applications such as calendaring, and time and billing programs. The course focuses on legal research using electronic sources.

CSU

135 BANKRUPTCY LAW 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in PARA 100 or equivalent

3 hours lecture

The United States Federal Bankruptcy Code (as amended) will be the foundation of this examination of bankruptcy law and practice. Students will be exposed to the jurisdictional and filing requirements for bankruptcy cases under Chapters 7, 11 and 13 of the Bankruptcy Code, and will learn pertinent rules of federal procedure associated with bankruptcy case filings. The focus will be on "consumer" Chapters 7 and 13.

CSU

140 CRIMINAL LAW AND PROCEDURES 3 UNITS

3 hours lecture

The California Criminal Code and Rules of Criminal Procedure will be the foundation of this examination of the pre-trial and post-trial procedures in a criminal case. Students will be exposed to the criminal justice system from the elements of offenses through post-conviction remedies. The drafting of motions and other documents associated with criminal matters will be included.

CSU