

# LANDSCAPE AND NURSERY TECHNOLOGY (LNT)

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## LNT 70 PRINCIPLES OF PRUNING FRUIT TREES AND VINES 1 UNIT

Pass/No Pass or Grade is Allowed  
Lecture 1 hour, laboratory 0.50 hours  
Offered: ALL  
Fruit tree identification, appropriate pruning practices for specific varieties, diseases, pest recognition and control, safety procedures, and tool recommendations. [D]

## LNT 72 HORTICULTURAL EQUIPMENT: CARE AND OPERATION 2 UNITS

Pass/No Pass or Grade is Allowed  
Lecture 1 hour, laboratory 3 hours  
Offered: ALL  
Provides instruction in the safe and proper care and operation of equipment used in landscape construction and maintenance. Includes proper maintenance procedures to ensure safe and efficient equipment operation. [D]

## LNT 75 POND DESIGN, INSTALLATION, AND CARE 1 UNIT

Pass/No Pass or Grade is Allowed  
Lecture 0.50 hours, laboratory 2 hours  
Offered: ALL  
Practices and procedures in the design, construction, and maintenance of ponds used in residential landscapes. Topics covered include: design concepts, materials used, installation procedures, initial pond set-up, and pond culture including the proper use of aquatic plants, fish, and maintaining a proper pond ecology. [D]

## LNT 85 PESTICIDE LICENSING EXAM PREPARATION 1 UNIT

Pass/No Pass or Grade is Allowed  
Lecture 1 hour  
Offered: ALL  
Prepares students for the California Pesticide Applicators License and Certificate Exams. Includes pesticide laws, understanding pesticide labels, types of pesticides, application methods, license categories, safety, and pest recognition. [ND]

## LNT 94 SPRINKLER SYSTEM INSTALLATION MAINTENANCE AND REPAIR 3 UNITS

Pass/No Pass or Grade is Allowed  
Lecture 2 hours, laboratory 3 hours  
Offered: FALL, SPRING  
Provides instruction in the various types, installation methods, maintenance techniques, and repair of sprinklers, pipes, back-flow devices, valves, wiring, and controllers used in the landscape irrigation industry. Emphasizes efficient controller scheduling to conserve water. [D]

## LNT 95 PORTFOLIOS, PRESENTATIONS, AND CONSULTATIONS FOR FLORAL DESIGN 1 UNIT

Pass/No Pass or Grade is Allowed  
Recommended Preparation: LNT 138, LNT 140, and LNT 141, or equivalent.  
Lecture 1 hour  
Offered: FALL, SPRING  
Designed to provide the skills necessary for floral sales presentations and consultations and to give assistance in the development of the student's personal portfolio. [D]

## LNT 99 ORGANIC GARDENING 1 UNIT

Pass/No Pass or Grade is Allowed  
Laboratory 3 hours  
Offered: FALL, SPRING  
Introduces organic methods of small-scale food and flower production utilizing hands-on laboratory and field work. Emphasizes vegetable and fruiting tree and shrub varieties suitable to Southern California. Explores basic plant anatomy, plant propagation, and garden installation. Introduces the structure and function of soils including composting and vermiculture. Includes discussion of irrigation, organic pest control, pruning, and harvest and storage requirements. [ND]

## LNT 100 PLANT AND HORTICULTURAL SCIENCE 4 UNITS

Pass/No Pass or Grade is Allowed  
Lecture 3 hours, laboratory 3 hours  
Offered: ALL  
Emphasizes the study of plant structures, physiology, taxonomy, growth processes, propagation and growth media, plant-soil-climate relationships, and the importance of plants for food, fiber, and ornamental purposes. [D; CSU; UC; C-ID AG-PS 106L]

## LNT 101 INTRODUCTION TO SUSTAINABLE ENERGY STUDIES 3 UNITS

Grade Only  
Recommended Preparation: BUS 211 or ENGL 114 or equivalent or through the Southwestern College multiple measures placement processes; MATH 35 or equivalent or through the Southwestern College multiple measures placement processes.  
Lecture 3 hours  
Offered: ALL  
Studies the growth of the human population and its effects on energy and climate demands with an emphasis on the built environment. [D; CSU]. (Same as: SES 101)

## LNT 105 PLANT IDENTIFICATION - TREES 3 UNITS

Pass/No Pass or Grade is Allowed  
Lecture 3 hours  
Offered: ALL  
Provides identification, growth characteristics, environmental requirements, and uses of approximately 120 trees common to the southern California landscape. [D; CSU]

**LNT 109**

**PLANT IDENTIFICATION - SHRUBS**

**3 UNITS**

Pass/No Pass or Grade is Allowed

Lecture 3 hours

Offered: ALL

Provides identification, growth characteristics, environmental requirements, and uses of 120 shrubs common to the southern California landscape. [D; CSU]

**LNT 113**

**PLANT IDENTIFICATION - HERBACEOUS PLANTS**

**3 UNITS**

Pass/No Pass or Grade is Allowed

Lecture 3 hours

Offered: ALL

Provides identification, growth characteristics, environmental requirements, and uses of approximately 120 annuals, perennials, ground covers, and vines common to the southern California landscape. [D; CSU]

**LNT 116**

**PLANT IDENTIFICATION: FRUITING PLANTS**

**1.5 UNIT**

Pass/No Pass or Grade is Allowed

Lecture 1.50 hour

Offered: ALL

Provides students with knowledge of the fruiting trees, shrubs, vines, and perennials that are suitable for growing and producing fruit within the climates found in San Diego County. Includes appropriate selection and use, scientific and varietal names, cultural requirements, pest control, and seasonal harvest periods. [D; CSU]

**LNT 118**

**PLANT IDENTIFICATION FOR FLORAL DESIGN**

**1 UNIT**

Pass/No Pass or Grade is Allowed

Lecture 1 hour

Offered: FALL, SPRING

Designed to provide the student with knowledge of the trees, shrubs, annuals, and perennials, suitable for floral design. Includes appropriate scientific names, seasonal availability, and lasting ability. [D; CSU]

**LNT 119**

**PLANT IDENTIFICATION: XERIPHYTIC PLANTS**

**3 UNITS**

Pass/No Pass or Grade is Allowed

Lecture 3 hours

Offered: ALL

Emphasizes identification, environmental requirements, growth characteristics, and uses of trees, shrubs, perennials, vines, and ground covers which can survive under low water conditions. (Field trips required.) [D; CSU]

**LNT 120**

**LANDSCAPE DESIGN I**

**4 UNITS**

Pass/No Pass or Grade is Allowed

Recommended Preparation: LA 104 or equivalent; LNT 105 and LNT 109, or equivalent.

Lecture 2 hours, laboratory 6 hours

Offered: FALL, SPRING

Introduces landscape design for residential and commercial properties incorporating historical and fundamental principles. Includes drafting skills, functional and aesthetic uses of plant materials, circulation, site evaluation, plant selection, topography and grading, and design theory. (One all-day field trip required.) [D; CSU]

**LNT 122**

**LANDSCAPE DESIGN II**

**4 UNITS**

Pass/No Pass or Grade is Allowed

Prerequisite: LNT 120 or equivalent.

Lecture 2 hours, laboratory 6 hours

Offered: ALL

Provides further study in the field of landscape design with emphasis on site analysis, spatial analysis, sensory evaluation, cost considerations, energy conservation through proper design, site details, landscape maintenance specifications, larger scale designs, and improved drawing methods. (One all-day field trip required.) [D; CSU]

**LNT 123**

**LANDSCAPE MAINTENANCE**

**4 UNITS**

Pass/No Pass or Grade is Allowed

Lecture 2 hours, laboratory 6 hours

Offered: ALL

Provides the knowledge and skills required to perform professional landscape maintenance, including proper use of landscape tools and equipment, weed control methods, planting, grading and drainage, pruning, plant identification, sprinkler maintenance and repair, and materials used in the trade. [D; CSU]

**LNT 124**

**LANDSCAPE CONSTRUCTION**

**3 UNITS**

Grade Only

Lecture 1 hour, laboratory 6 hours

Offered: ALL

Covers proper methods of estimating, laying out, and installing landscape hardscape features including concrete, paver patios, walkways, garden retaining walls, wood decks and fences, overhead shade structures, benches, and planters. Includes proper knowledge and use of building materials. [D; CSU] (Same as: NC 3083)

**LNT 128**  
**SPRINKLER DESIGN**  
**3 UNITS**

Pass/No Pass or Grade is Allowed  
 Lecture 2 hours, laboratory 3 hours  
 Offered: ALL

Introduces the principles of proper water application to ornamental areas by the use of sprinklers and micro-irrigation equipment. Includes hydraulics, sprinkler layout, piping, drip systems, subsurface irrigation, and related irrigation practices. Emphasizes methods for efficient water application and water conservation. (One all-day field trip required.) [D; CSU]

**LNT 129**  
**SUSTAINABLE LANDSCAPE/WATER AUDITOR**  
**3 UNITS**

Grade Only  
 Lecture 3 hours  
 Offered: ALL

Introduces methods and procedures for the evaluation of landscape designs, landscape installations, landscape maintenance practices, and water application techniques for sustainable landscape practices. Provides procedures followed in both a landscape audit and a water audit. Includes methods for improving landscape and irrigation installations to best conserve and reuse available resources. [D]

**LNT 131**  
**LANDSCAPE CONTRACTING AND ESTIMATING**  
**3 UNITS**

Pass/No Pass or Grade is Allowed  
 Lecture 3 hours  
 Offered: ALL

Procedures and methods for proper landscape estimating and bidding. Interpretation of blueprints and specifications determining overhead and profit percentages. Understanding of landscape contracting regulation and business procedures. Requirements of becoming a licensed landscape contractor. [D]

**LNT 132**  
**TURF MANAGEMENT**  
**3 UNITS**

Pass/No Pass or Grade is Allowed  
 Lecture 2 hours, laboratory 3 hours  
 Offered: ALL

Emphasizes identification and management of grasses used in landscape, golf courses, and sports field areas. Includes establishment methods, mowing, fertilization, thatch control, and pest management. (One all-day field trip required.) [D; CSU]

**LNT 134**  
**INTRODUCTION TO SOIL SCIENCE**  
**3 UNITS**

Pass/No Pass or Grade is Allowed  
 Lecture 2 hours, laboratory 3 hours  
 Offered: ALL

The study of soil physical, chemical and biological properties. 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. Laboratory required. [D; CSU; UC; C-ID AG-PS 128L]

**LNT 136**  
**INTEGRATED PEST MANAGEMENT**  
**3 UNITS**

Pass/No Pass or Grade is Allowed  
 Lecture 3 hours  
 Offered: FALL, SPRING

Examines common pests of landscape plants and nursery crops in Southern California, including weeds, plant diseases, and vertebrate and invertebrate pests. Enables students to diagnose pest problems and prescribe solutions that integrate safe and effective practices including cultural, biological, mechanical/physical, and chemical control methods as well as preventative measures. Designed to assist students in preparing for California licensing exams in pest management or to earn continuing education hours to maintain their license. [D; CSU]

**LNT 138**  
**FLORAL DESIGN I**  
**3 UNITS**

Pass/No Pass or Grade is Allowed  
 Fee: \$30  
 Lecture 2 hours, laboratory 3 hours  
 Offered: FALL, SPRING

Introduces theory, techniques, and skills practiced in the floral design industry. Includes instruction in basic design principles, cut flower preparation and care, merchandising and packaging. (One all-day field trip required.) [D; CSU]

**LNT 140**  
**FLORAL DESIGN II**  
**3 UNITS**

Pass/No Pass or Grade is Allowed  
 Fee: \$50  
 Prerequisite: LNT 138 or equivalent.  
 Lecture 2 hours, laboratory 3 hours  
 Offered: FALL, SPRING

Continues building skills learned in LNT 138 Floral Design I. Emphasizes wedding, funeral, banquet and contemporary floral design work. Provides a more in-depth study of flower shop management. [D; CSU]

**LNT 141**  
**FLORAL DESIGN III**  
**1 UNIT**

Pass/No Pass or Grade is Allowed  
 Fee: \$75  
 Prerequisite: LNT 140 or equivalent.  
 Lecture 0.50 hours, laboratory 1.50 hour  
 Offered: FALL, SPRING

Enhances the development of the creative ability of the student. Includes designing original arrangements for the following topics: tropicals, theme luncheons, specialty events, hotel lobbies, etc. [D; CSU]

**LNT 143**  
**FLORICULTURE AND NURSERY OPERATIONS: TREE AND SHRUBS PRODUCTION**  
**1 UNIT**

Pass/No Pass or Grade is Allowed  
 Lecture 0.66 hours, laboratory 1 hour  
 Offered: ALL

Designed to provide information with regard to the propagation and growth requirements of trees and shrubs, production scheduling, containers for various stages of growth, and pests and diseases encountered during production. [D; CSU]

**LNT 144**  
**HOUSE PLANT CARE AND PRODUCTION**  
**1.5 UNIT**

Pass/No Pass or Grade is Allowed  
Lecture 1 hour, laboratory 1.50 hour  
Offered: ALL

Fundamentals of plant selection, placement, and maintenance for interior purposes. Includes plant identification, watering, fertilization practices, pest and disease control, pruning, and site evaluation. [D; CSU]

**LNT 146**  
**PLANT PROPAGATION**  
**3 UNITS**

Pass/No Pass or Grade is Allowed  
Lecture 2 hours, laboratory 3 hours  
Offered: ALL

Provides plant propagation and production practices with emphasis on nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, plant pest and disease control; structures and site layout; preparation and use of propagating and planting mediums; use and maintenance of tools and equipment; regulations pertaining to plant production. [D; CSU; C-ID AG-EH 116L]

**LNT 147**  
**WEDDING DESIGN AND EVENT PLANNING**  
**2 UNITS**

Pass/No Pass or Grade is Allowed  
Fee: \$75  
Prerequisite: LNT 140 or equivalent.  
Lecture 1 hour, laboratory 3 hours  
Offered: FALL, SPRING

Focuses on the mechanics and placement of professionally designed wedding and event floral arrangements. Emphasizes specialty designs, decorations, and placement reflecting contemporary lifestyle choices of ceremony and reception sites. Includes sales, planning, and implementation. [D; CSU]

**LNT 148**  
**HORTICULTURAL BUSINESS PRACTICES**  
**3 UNITS**

Pass/No Pass or Grade is Allowed  
Lecture 3 hours  
Offered: ALL

Provides procedures in the ownership or management of a horticultural business including start up, financing, advertising, employee relationships, recordkeeping, applicable laws and regulations, customer relations, suppliers, and obtaining new customers. [D; CSU]

**LNT 151**  
**PLANT IDENTIFICATION I**  
**3 UNITS**

Pass/No Pass or Grade is Allowed  
Lecture 2 hours, laboratory 3 hours  
Offered: SPRING

Provides identification, growth characteristics, environmental requirements, and uses of landscape plants adapted to the climate of Southern California. Emphasis on plants that flower in spring and summer. [D; CSU; UC; C-ID AG-EH 108L]

**LNT 152**  
**PLANT IDENTIFICATION II**  
**3 UNITS**

Pass/No Pass or Grade is Allowed  
Lecture 2 hours, laboratory 3 hours  
Offered: FALL

Provides identification, growth characteristics, environmental requirements, and uses of landscape plants adapted to the climate of Southern California. Emphasis on plants that display desirable traits in fall and winter. [D; CSU; UC; C-ID AG-EH 112L]

**LNT 299**  
**INDEPENDENT STUDY**  
**1-3 UNITS**

Pass/No Pass or Grade is Allowed  
Limitation on Enrollment: Eligibility for independent study.  
Lecture 3 hours

Offered: FALL, SPRING  
Individual study or research in some area of landscape and nursery technology which is of particular interest to the student and not included in regular courses of the college. [D; CSU]