

# Landscape Architecture/ Landscape and Nursery Technology

## School of Health, Exercise Science, Athletics and Applied Technology

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### General Description

Landscape architecture is the study of principles and practices related to the design and installation of environmentally pleasing landscape designs for homes, parks, commercial buildings, and natural settings. Landscape technology deals with study of the practices of landscape installation methods and landscape maintenance techniques for homes, parks, commercial settings, and utility areas. Golf and sports turf management is the study of the installation and proper management of quality sports fields and golf course turfs. Nursery technology studies the careers of plant propagation, nursery production, and nursery sales. Floral design covers the production of quality floral arrangements, flower shop management, wedding consultations and design, and interiorscaping.

### Career Options

Below is a sample of the career options available for students majoring in landscape architecture, landscape occupations, nursery occupations, floral design occupations, or golf and sports turf management. Most of these require a certificate or associate degree, some require a bachelor's degree, and a few require a graduate-level degree: landscape contractor, landscape designer, licensed landscape architect, floral designer, assistant floral designer, sprinkler technician, golf course superintendent or assistant superintendent, retail nursery manager, nursery manager, greenhouse technician, floral shop owner or manager, landscape maintenance company owner or manager, or horticultural teacher.

### Degree/Certificate Options

#### Associate in Science Degree: Career/Technical

|                                 |       |
|---------------------------------|-------|
| Golf and Sports Turf Management | 02601 |
| Landscape Architecture          | 02610 |
| Landscape Occupations           | 02600 |

#### Nursery Occupations

|                                     |       |
|-------------------------------------|-------|
| Floral Design Emphasis              | 02821 |
| Retail Nursery and Plant Production | 02822 |

#### Certificate of Achievement:

|                                 |       |
|---------------------------------|-------|
| Golf and Sports Turf Management | 02602 |
| Landscape Architecture          | 02611 |
| Landscape Occupations           | 02603 |

#### Nursery Occupations

|                                     |       |
|-------------------------------------|-------|
| Floral Design Emphasis              | 02823 |
| Retail Nursery and Plant Production | 02824 |

*Consult with a counselor to develop a Student Education Plan (SEP), which lists the courses necessary to achieve your academic goal.*

**Small business owners and entrepreneurs:** Study small business management. Earn a Certificate that combines your education discipline with Entrepreneurship courses. For more information turn to Business Management - Entrepreneurship Education.

## ASSOCIATE IN SCIENCE DEGREE

### Golf and Sports Turf Management

Career/Technical (Major Code: 02601)

Designed to provide skills and training to students pursuing careers in the golf and sports turf industry. The field requires two distinct areas of knowledge: one based on a solid background in the science of turfgrass establishment and maintenance and the other based on business principles, budgeting, and personnel management. The program trains persons for jobs on golf courses, park and recreation systems, athletic fields, sod farms, and any other landscape area where turfgrass plays a major role.

#### First Semester

|         |                                                        |   |
|---------|--------------------------------------------------------|---|
| LNT 100 | Plant and Horticultural Science                        | 4 |
| LNT 102 | Plant Identification: Deciduous Trees                  | 1 |
| LNT 125 | Landscape Construction: Concrete and Masonry Skills    | 1 |
| LNT 126 | Landscape Construction: Fence, Deck, and Lumber Skills | 1 |
| LNT 127 | Landscape Construction: Sprinkler Installation         | 1 |

#### Second Semester

|         |                                             |   |
|---------|---------------------------------------------|---|
| LNT 72  | Horticultural Equipment: Care and Operation | 2 |
| LNT 103 | Plant Identification: Conifers and Palms    | 1 |
| LNT 132 | Turf Management                             | 3 |
| LNT 134 | Soils                                       | 3 |

#### Third Semester

|         |                                       |   |
|---------|---------------------------------------|---|
| LNT 104 | Plant Identification: Broadleaf Trees | 1 |
| LNT 128 | Sprinkler Design                      | 3 |
| LNT 131 | Landscape Contracting and Estimating  | 3 |
| LNT 136 | Plant Pest and Disease Control        | 3 |

#### Fourth Semester

|            |                                                                      |   |
|------------|----------------------------------------------------------------------|---|
| PD 290-293 | Occupational Cooperative Education I-IV                              | 4 |
| LNT 133    | Golf Course and Sport Turf Management *<br>(Cuyamaca College OH 265) | 3 |
| LNT 148    | Horticultural Business Practices                                     | 3 |

**Total unit** **37**

Recommended Electives: ART 121; BUS 121; COMM 104; LA 200; PSYC 101; SPAN 101.

\* LNT 133—Golf and Sports Turf Management is only offered at Cuyamaca College, but it is fully articulated with Southwestern College. Students must enroll and register for the class at Cuyamaca College.

*To earn an associate degree, additional general education and graduation requirements must be completed. See page 49.*



Some courses within this program may require additional coursework that must be completed prior to enrollment in those courses. Please consult the individual course listings for prerequisites and any other limitations on enrollment.

## Landscape Architecture

Career/Technical (Major Code: 02610)

Designed to provide skills and training to students in landscape architecture. The field requires two distinct areas of knowledge, one based on a solid background in the horticultural sciences and the other based on design theory backed by an ability to express designs graphically in a professional manner. The program will train students for entry-level employment in local landscape architecture firms, allow students to start their own landscape design/construction businesses, or allow transfer to a four-year institution with the eventual goal of becoming a licensed landscape architect.

### First Semester

|         |                                                        |   |
|---------|--------------------------------------------------------|---|
| LA 104  | Landscape Graphics and Planting Design                 | 3 |
| LNT 102 | Plant Identification: Deciduous Trees                  | 1 |
| LNT 103 | Plant Identification: Conifers and Palms               | 1 |
| LNT 104 | Plant Identification: Broadleaf Trees                  | 1 |
| LNT 125 | Landscape Construction: Concrete and Masonry Skills    | 1 |
| LNT 126 | Landscape Construction: Fence, Deck, and Lumber Skills | 1 |
| LNT 127 | Landscape Construction: Sprinkler Installation         | 1 |

### Second Semester

|          |                                             |   |
|----------|---------------------------------------------|---|
| ARCH 115 | Architectural Graphics                      | 3 |
| LNT 106  | Plant Identification: Flowering Shrubs (1)  |   |
| LNT 107  | Plant Identification: Foliage Shrubs I (1)  |   |
| LNT 108  | Plant Identification: Foliage Shrubs II (1) |   |
|          | OR                                          | 3 |
| LNT 119  | Plant Identification: Xeriphytic Plants (3) |   |
| LNT 128  | Sprinkler Design                            | 3 |

### Third Semester

|         |                                      |   |
|---------|--------------------------------------|---|
| LNT 100 | Plant and Horticultural Science      | 4 |
| LNT 120 | Landscape Design I                   | 4 |
| LNT 131 | Landscape Contracting and Estimating | 3 |

### Fourth Semester

|         |                                                 |   |
|---------|-------------------------------------------------|---|
| LA 200  | Introduction to Computer Aided Landscape Design | 3 |
| LNT 122 | Landscape Design II                             | 4 |
| LNT 134 | Soils                                           | 3 |

**Total units** **39**

Recommended Electives: ART 121; BIOL 100, 101; CL 120; ECON 101; PSYC 101; SPAN 101.

*To earn an associate degree, additional general education and graduation requirements must be completed. See page 49.*

## Landscape Occupations

Career/Technical (Major Code: 02600)

Designed for students interested in landscape contracting and landscape maintenance careers, including park settings, schoolgrounds, residential landscapes, and commercial landscapes. Skills include hardscape installation, sprinkler systems, turfgrass management, and landscape installation and care.

### First Semester

|             |                                 |   |
|-------------|---------------------------------|---|
| LNT 100     | Plant and Horticultural Science | 4 |
| LNT 102–116 | Plant Identification*           | 3 |
|             | Complete 3 units from electives | 3 |

### Second Semester

|             |                                        |   |
|-------------|----------------------------------------|---|
| LNT 102–116 | Plant Identification*                  |   |
|             | OR                                     | 3 |
| LNT 119     | Plant Identification—Xeriphytic Plants |   |
| LNT 134     | Soils                                  | 3 |
|             | Complete 3 units from electives        | 3 |

### Third Semester

|          |                                  |   |
|----------|----------------------------------|---|
| ACCT 7   | Basic Business Bookkeeping       |   |
|          | OR                               | 3 |
| LNT 148  | Horticultural Business Practices |   |
| BIOL 100 | Principles of Biology            | 3 |
| BIOL 101 | Principles of Biology Laboratory | 1 |
|          | Complete 3 units from electives  | 3 |

### Fourth Semester

|            |                                         |   |
|------------|-----------------------------------------|---|
| PD 290–293 | Occupational Cooperative Education I–IV | 4 |
| LNT 136    | Plant Pest and Disease Control          | 3 |
|            | Complete 3 units from electives         | 3 |

**Total units** **39**

Electives: LNT 72, 75, 120, 122, 123, 125, 126, 127, 128, 131, 132.

*To earn an associate degree, additional general education and graduation requirements must be completed. See page 49.*

\* Students may select any of the plant identification classes, to total 6 units

## Nursery Occupations

### Common Core:

|         |                                  |     |
|---------|----------------------------------|-----|
| LNT 100 | Plant and Horticultural Science  | 4   |
| LNT 136 | Plant Pest and Disease Control   | 3   |
| LNT 138 | Floral Design I                  | 3   |
| LNT 144 | House Plant Care and Production  | 1.5 |
| LNT 146 | Plant Propagation                | 1.5 |
| LNT 148 | Horticultural Business Practices |     |
|         | OR                               | 3   |
| ACCT 7  | Basic Business Bookkeeping       |     |

**Total units** **16**

## Floral Design Emphasis

Career/Technical (Major Code: 02821)

Designed to train students in the skills needed in the floral design industry. Students who successfully complete the degree are eligible for positions such as assistant floral designer, floral designer, floral shop manager, and floral shop owner. Positions may be found at floral shops, wholesale floral suppliers, retail nurseries, hotels and resorts, and as a private floral consultant. Students who have completed this degree have proven they can produce not only the normal bank of floral products but also new, creative, and innovative designs for all activities.

|                    |                                                                   |              |
|--------------------|-------------------------------------------------------------------|--------------|
| ART 121            | Darkroom and Digital Photography I                                | 3            |
| BUS 148            | Developing and Starting a New Business (3)<br>OR                  | 3            |
| BUS 144            | Advertising and Promotional Strategy (1)                          |              |
| BUS 145            | Financial Management for Small Business (1)                       |              |
| BUS 147            | Successful Selling Techniques (1)                                 |              |
| COMM 174           | Interpersonal Communication                                       | 3            |
| PD 290–293         | Occupational Cooperative Education I–IV                           | 8            |
| LNT 95             | Portfolios, Presentations, and Consultations<br>for Floral Design | 1            |
| LNT 110            | Plant Identification: Annuals and Perennials I                    | 1            |
| LNT 118            | Plant Identification for Floral Design                            | 1            |
| LNT 140            | Floral Design II                                                  | 3            |
| LNT 141            | Floral Design III (1)<br>OR                                       | 1–2          |
| LNT 147            | Wedding Design and Event Planning (2)                             |              |
| Plus Common        | Core courses for Nursery Occupations                              | 16           |
| <b>Total units</b> |                                                                   | <b>40–41</b> |

Recommended Elective: BUS 174.

*To earn an associate degree, additional general education and graduation requirements must be completed. See page 49.*

## Retail Nursery and Plant Production

Career/Technical (Major Code: 02822)

Designed to provide students with the skills needed for working in retail and wholesale nurseries, or for owning and operating their own nursery. Students who successfully complete the degree are eligible for positions such as retail nursery sales, retail nursery management, wholesale nursery growing, greenhouse management, and wholesale of horticultural products. Students completing this degree have proven a knowledge of plant identification, cultural requirements, plant propagation, and pest control.

|                                                  |                                         |           |
|--------------------------------------------------|-----------------------------------------|-----------|
| BIOL 100                                         | Principles of Biology                   | 3         |
| BIOL 101                                         | Principles of Biology Laboratory        | 1         |
| PD 290–293                                       | Occupational Cooperative Education I–IV | 4         |
| LNT 102–119                                      | Plant Identification*                   | 6         |
| LNT 134                                          | Soils                                   | 3         |
| Complete 7 units from electives                  |                                         | 7         |
| Plus Common Core courses for Nursery Occupations |                                         | 16        |
| <b>Total units</b>                               |                                         | <b>40</b> |

Electives: LNT 72, 125, 126, 127, 131, 143.

\* Students may select any of the plant identification classes, to total 6 units

*To earn an associate degree, additional general education and graduation requirements must be completed. See page 49.*



Some courses within this program may require additional coursework that must be completed prior to enrollment in those courses. Please consult the individual course listings for prerequisites and any other limitations on enrollment.

## CERTIFICATES

### Golf and Sports Turf Management

Certificate of Achievement

Career/Technical (Major Code: 02602)

#### First Semester

|         |                                                        |   |
|---------|--------------------------------------------------------|---|
| LNT 100 | Plant and Horticultural Science                        | 4 |
| LNT 102 | Plant Identification: Deciduous Trees                  | 1 |
| LNT 125 | Landscape Construction: Concrete/Masonry Skills        | 1 |
| LNT 126 | Landscape Construction: Fence, Deck, and Lumber Skills | 1 |
| LNT 127 | Landscape Construction: Sprinkler Installation         | 1 |

#### Second Semester

|         |                                             |   |
|---------|---------------------------------------------|---|
| LNT 72  | Horticultural Equipment: Care and Operation | 2 |
| LNT 103 | Plant Identification: Conifers and Palms    | 1 |
| LNT 132 | Turf Management                             | 3 |
| LNT 134 | Soils                                       | 3 |

#### Third Semester

|         |                                       |   |
|---------|---------------------------------------|---|
| BUS 150 | Principles of Management              | 3 |
| LNT 104 | Plant Identification: Broadleaf Trees | 1 |
| LNT 128 | Sprinkler Design                      | 3 |
| LNT 136 | Plant Pest and Disease Control        | 3 |

#### Fourth Semester

|            |                                                               |   |
|------------|---------------------------------------------------------------|---|
| PD 290–293 | Occupational Cooperative Education I–IV                       | 4 |
| LNT 133    | Golf and Sport Turf Management *<br>(Cuyamaca College OH 265) | 3 |
| LNT 148    | Horticultural Business Practices                              | 3 |

**Total units** 37

Recommended Electives: ART 121; BUS 121; LA 200; PSYC 101; SPAN 101; COMM 104.

\* LNT 133—Golf and Sports Turf Management is only offered at Cuyamaca College, but it is fully articulated with Southwestern College. Students must enroll and register for the class at Cuyamaca College.

## Landscape Architecture

Certificate of Achievement

Career/Technical (Major Code: 02611)

#### First Semester

|         |                                                        |   |
|---------|--------------------------------------------------------|---|
| LA 104  | Landscape Graphics and Planting Design                 | 3 |
| LNT 102 | Plant Identification: Deciduous Trees                  | 1 |
| LNT 103 | Plant Identification: Conifers and Palms               | 1 |
| LNT 104 | Plant Identification: Broadleaf Trees                  | 1 |
| LNT 125 | Landscape Construction: Concrete and Masonry Skills    | 1 |
| LNT 126 | Landscape Construction: Fence, Deck, and Lumber Skills | 1 |
| LNT 127 | Landscape Construction: Sprinkler Installation         | 1 |

#### Second Semester

|          |                                             |   |
|----------|---------------------------------------------|---|
| ARCH 115 | Architectural Graphics                      | 3 |
| LNT 106  | Plant Identification: Flowering Shrubs (1)  |   |
| LNT 107  | Plant Identification: Foliage Shrubs I (1)  |   |
| LNT 108  | Plant Identification: Foliage Shrubs II (1) |   |
|          | OR                                          | 3 |
| LNT 119  | Plant Identification: Xeriphytic Plants (3) |   |
| LNT 128  | Sprinkler Design                            | 3 |

#### Third Semester

|         |                                      |   |
|---------|--------------------------------------|---|
| LNT 100 | Plant and Horticultural Science      | 4 |
| LNT 120 | Landscape Design I                   | 4 |
| LNT 131 | Landscape Contracting and Estimating | 3 |

#### Fourth Semester

|         |                                                 |   |
|---------|-------------------------------------------------|---|
| LA 200  | Introduction to Computer Aided Landscape Design | 3 |
| LNT 122 | Landscape Design II                             | 4 |
| LNT 134 | Soils                                           | 3 |

**Total units** 39

## Landscape Occupations

### Certificate of Achievement

Career/Technical (Major Code: 02603)

#### First Semester

|             |                                 |   |
|-------------|---------------------------------|---|
| LNT 100     | Plant and Horticultural Science | 4 |
| LNT 102–115 | Plant Identification*           | 3 |
|             | Complete 3 units from electives | 3 |

#### Second Semester

|             |                                         |   |
|-------------|-----------------------------------------|---|
| LNT 102–115 | Plant Identification*                   |   |
|             | OR                                      | 3 |
| LNT 119     | Plant Identification: Xeriphytic Plants |   |
| LNT 134     | Soils                                   | 3 |
|             | Complete 3 units from electives         | 3 |

#### Third Semester

|          |                                  |   |
|----------|----------------------------------|---|
| ACCT 7   | Basic Business Bookkeeping       |   |
|          | OR                               | 3 |
| LNT 148  | Horticultural Business Practices |   |
| BIOL 100 | Principles of Biology            | 3 |
| BIOL 101 | Principles of Biology Laboratory | 1 |
|          | Complete 3 units from electives  | 3 |

#### Fourth Semester

|            |                                         |   |
|------------|-----------------------------------------|---|
| PD 290–293 | Occupational Cooperative Education I–IV | 4 |
| LNT 136    | Plant Pest and Disease Control          | 3 |
|            | Complete 3 units from electives         | 3 |

**Total units** **39**

Electives: LNT 72, 75, 120, 122, 123, 125, 126, 127, 128, 132.

\* Students may select any of the plant identification classes, to total 6 units

## Nursery Occupations

### Common Core:

|                    |                                  |           |
|--------------------|----------------------------------|-----------|
| LNT 100            | Plant and Horticultural Science  | 4         |
| LNT 136            | Plant Pest and Disease Control   | 3         |
| LNT 138            | Floral Design I                  | 3         |
| LNT 144            | House Plant Care and Production  | 1.5       |
| LNT 146            | Plant Propagation                | 1.5       |
| LNT 148            | Horticultural Business Practices |           |
|                    | OR                               | 3         |
| ACCT 7             | Basic Business Bookkeeping       |           |
| <b>Total units</b> |                                  | <b>16</b> |

## Floral Design Emphasis

### Certificate of Achievement

Career/Technical (Major Code: 02823)

|                    |                                                                |              |
|--------------------|----------------------------------------------------------------|--------------|
| BUS 148            | Developing and Starting a New Business (3)                     |              |
|                    | OR                                                             | 3            |
| BUS 144            | Advertising and Promotional Strategy (1)                       |              |
| BUS 145            | Financial Management for Small Business (1)                    |              |
| BUS 147            | Successful Selling Techniques (1)                              |              |
| COMM 174           | Interpersonal Communication                                    | 3            |
| PD 290–293         | Occupational Cooperative Education I–IV                        | 8            |
| LNT 95             | Portfolios, Presentations, and Consultations for Floral Design | 1            |
| LNT 110            | Plant Identification: Annuals and Perennials I                 | 1            |
| LNT 118            | Plant Identification for Floral Design                         | 1            |
| LNT 140            | Floral Design II                                               | 3            |
| LNT 141            | Floral Design III (1)                                          |              |
|                    | OR                                                             | 1–2          |
| LNT 147            | Wedding Design and Event Planning (2)                          |              |
|                    | Plus Common Core courses for Nursery Occupations               | 16           |
| <b>Total units</b> |                                                                | <b>37–38</b> |

Recommended Elective: BUS 174.

## Retail Nursery and Plant Production

### Certificate of Achievement

Career/Technical (Major Code: 02824)

|                    |                                                  |           |
|--------------------|--------------------------------------------------|-----------|
| BIOL 100           | Principles of Biology                            | 3         |
| BIOL 101           | Principles of Biology Laboratory                 | 1         |
| PD 290–293         | Occupational Cooperative Education I–IV          | 4         |
| LNT 102–119        | Plant Identification*                            | 6         |
| LNT 134            | Soils                                            | 3         |
|                    | Complete 7 units from electives                  | 7         |
|                    | Plus Common Core courses for Nursery Occupations | 16        |
| <b>Total units</b> |                                                  | <b>40</b> |

Electives: LNT 72, 125, 126, 127, 143.

\* Students may select any of the plant identification classes, to total 6 units.

