

# LH - Landscape Horticulture

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## Courses

### LH 105 Horticulture Occupations

**1 Credit. 1 Lecture Hour. 1 Lab Hour.**

An introduction to horticulture occupations in the Cincinnati region. Topics include: job levels, working conditions, abilities needed, and benefits within the horticulture industries; resume preparation; interviewing; and business etiquette for the landscaping industry. Prerequisites: None

### LH 110 Applied Botany

**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on plant classification, structures, physiology, and development, and the environmental conditions that affect plant growth.

Prerequisites: Placement into ENG 101A

### LH 115 Floral Design and Marketing

**3 Credits. 2 Lecture Hours. 2 Lab Hours.**

A course on concepts and techniques of floral design. Topics include: floral design styles, pricing, shop management, and specialized work such as weddings and funerals. Students must attend off-campus field trips.

Prerequisites: None

### LH 120 Soil Science and Plant Nutrition

**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on physical, chemical, and biological properties of soils. Topics include: soil formation; soil conservation; and properties of soils that affect plant growth, development, and health.

Prerequisites: Placement into ENG 101A

### LH 125 Turfgrass Management

**3 Credits. 2 Lecture Hours. 2 Lab Hours.**

A course on principles and practices for management of turfgrass installations. Topics include: turfgrass identification, growth, uses, and establishment; and pest control. Students must attend field trips.

Prerequisites: None

### LH 130 Woody Plant Materials

**3 Credits. 1 Lecture Hour. 5 Lab Hours.**

A course on woody plants grown by nurseries and found in the landscape and in naturalized settings of Ohio. Topics include: identifying the features and landscape uses of deciduous and evergreen trees, shrubs, and vines. Students must attend weekly plant walk field trips.

Prerequisites: Placement into ENG 101A

### LH 135 Herbaceous Plant Materials

**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on annual, biennial, and non-woody plants commonly used in landscapes of the greater Cincinnati region. Topics include: identification, culture, and design uses of plants for landscapes.

Prerequisites: Placement into ENG 101A

### LH 140 Landscape Operations

**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on equipment used for landscape activities such as planting trees and shrubs and maintaining landscaped areas. Topics include: job safety; and operations of equipment such as loaders, backhoes, tractors, and commercial mowers. Students must attend field trips.

Prerequisites: None

### LH 145 Horticulture Mechanics

**3 Credits. 2 Lecture Hours. 2 Lab Hours.**

An introduction to the mechanical systems used in the landscape industry. Topics include small engine theory, operation, and repair; gasoline and diesel fuels; hydraulic power systems; and traditional and alternative electrical systems.

Prerequisites: None

### LH 151 Landscape Design 1

**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on landscape development for residential and small commercial sites. Topics include: the design process, proper design development, and graphics and lettering. Students must provide their own drawing tools and must attend field trips.

Prerequisites: Placement into ENG 101A

### LH 155 Computer-Aided Landscape Design

**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on techniques for using computers in landscape design and contracting to generate plot plans, planting plans, and presentation drawings.

Prerequisites: Placement into ENG 101A and LH 151 (minimum grade C)

### LH 160 Irrigation Design, Installation, and Management

**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on designing, installing, and managing residential and commercial irrigation systems. Students must participate in field work.

Prerequisites: LH 125 and LH 151 (minimum grade C for both)

### LH 165 Landscape Construction

**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on techniques and use of materials for constructing and installing landscape planting features and structures such as gardens, terraces, walls, mounds, ponds, irrigation, and outdoor lighting.

Students must participate in field work.

Prerequisites: LH 151 (minimum grade C)

### LH 170 From Field to Kitchen

**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on edible plants, herbs, and spices and their use in culinary preparations.

Prerequisites: None

Instructor Consent Required

### LH 175 Interior Plantscaping

**3 Credits. 2 Lecture Hours. 2 Lab Hours.**

A course on the use of foliage and blooming plants to enhance interior areas of buildings. Topics include: classification, culture, and design applications.

Prerequisites: Placement into ENG 101A

**LH 191 Part-Time Cooperative Education 1: Landscape Horticulture****1 Credit. 1 Lecture Hour. 20 Lab Hours.**

Students seeking an associate's degree participate in their first part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.  
Prerequisites: BUS 190 (minimum grade C)

**LH 192 Part-Time Cooperative Education 2: Landscape Horticulture****1 Credit. 1 Lecture Hour. 20 Lab Hours.**

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.  
Prerequisites: LH 191

**LH 193 Part-Time Cooperative Education 3: Landscape Horticulture****1 Credit. 1 Lecture Hour. 20 Lab Hours.**

Students seeking an associate's degree participate in their third part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.  
Prerequisites: LH 192

**LH 194 Part-Time Cooperative Education 4: Landscape Horticulture****1 Credit. 1 Lecture Hour. 20 Lab Hours.**

Students seeking an associate's degree participate in their fourth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.  
Prerequisites: LH 194

**LH 195 Part-Time Cooperative Education 5: Landscape Horticulture****1 Credit. 1 Lecture Hour. 20 Lab Hours.**

Students seeking an associate's degree participate in their fifth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.  
Prerequisites: LH 195

**LH 196 Part-Time Cooperative Education 6: Landscape Horticulture****1 Credit. 1 Lecture Hour. 20 Lab Hours.**

Students seeking an associate's degree participate in their sixth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.  
Prerequisites: LH 195

**LH 205 Landscape Pests and Controls**  
**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on identification, diagnosis, and control of common insect, disease, and weed pests in the landscape industry. Topics include: integrated pest management/plant health care principles, and Ohio Department of Agriculture Commercial CORE and Category 6d exams.

Prerequisites: LH 110 and LH 130 and LH 135 (minimum grade C for all)

**LH 210 Turfgrass Pests and Controls**  
**3 Credits. 2 Lecture Hours. 2 Lab Hours.**

A course on identification, diagnosis, and control of common insect, disease, and weed pests of turfgrasses. Topics include: integrated pest management/plant health care principles, and Ohio Department of Agriculture Commercial CORE and Category 8 exams. Students must attend field trips.

Prerequisites: LH 110 and LH 125 (minimum grade C for both)

**LH 215 Arboriculture**  
**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on principles and techniques of the commercial arboriculture business. Topics include: trees and the environment; protection, diagnosis, and treatment of tree health problems; techniques for pruning, removal, and climbing; and job safety. Students must attend field trips.

Prerequisites: LH 110 and LH 130 (minimum grade C in both)

**LH 225 Greenhouse Management and Plant Production**  
**3 Credits. 2 Lecture Hours. 2 Lab Hours.**

A course on principles and practices for greenhouse management and plant production. Topics include: greenhouse structures and maintenance, and managing environmental conditions vital to plant growth. Students must attend field trips.

Prerequisites: LH 110 and LH 135 (minimum grade C for both)

**LH 230 Landscape Solutions to Stormwater Management**  
**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on using landscaping to manage stormwater and water runoff. Topics include: the ecology, design, installation, and maintenance of water management and retention systems including bioswales, green roofs, and rain gardens. Students must attend field trips.

Prerequisites: LH 110 and LH 120 and LH 151 (minimum grade C for all)

**LH 240 Landscape Management**  
**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on principles and practices of management used in the landscape industry. Topics include: seasonal planning for landscape maintenance, contracts and specifications, cost estimating, business management, and personnel management. Students must attend field trips.

Prerequisites: LH 110 and LH 120 and LH 130 (minimum grade C for all), and MAT 093 or MAT 105A or appropriate Math placement

**LH 245 Plants for Sustainable Landscapes**  
**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on identification, culture, and uses of nursery-grown woody and herbaceous plants in Cincinnati-area sustainable landscapes. Topics include: using native species appropriately, and controlling invasive species. Students must attend weekly field trips.

Prerequisites: LH 130 and LH 135 and LH 151 (minimum grade C for all)

**LH 252 Landscape Design 2****3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on application of design theory to develop creative solutions to landscape problems. Topics include: graphic skills such as section, elevation, isometric and perspective techniques; construction plans; interaction with clients; and sales presentations. Students must attend field trips.

Prerequisites: LH 130 and LH 140 and LH 151 (minimum grade C for all)

**LH 255 Golf Course and Athletic Field Management****3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on techniques for golf course and athletic field management. Topics include: layout and construction, course/field management systems, maintenance, budgeting, record-keeping, golf-specific turf care, turfgrass selection and enhancement, practices for playability enhancement, field set-up, and renovation of existing fields. Students must attend field trips.

Prerequisites: LH 125 (minimum grade C)

**LH 265 Landscape Grading, Drainage, and Surveying****3 Credits. 2 Lecture Hours. 2 Lab Hours.**

A course on landscape site preparation. Topics include: site assessment, establishing grades, soil conservation and improvement, surface and sub-surface drain systems, cut-and-fill calculations, and safe operation of equipment. Students must attend field trips.

Prerequisites: LH 151 (minimum grade C) and MAT 093 or appropriate placement

**LH 290 Sustainable Landscape Design Capstone****3 Credits. 2 Lecture Hours. 3 Lab Hours.**

Students complete a project while examining the landscape designer's role in restoring and protecting habitats. Topics include: site choice, stormwater controls, xeriscaping, criteria for LEED and other certifications, and techniques for landscape features such as green roofs and rain gardens. Students must attend field trips.

Prerequisites: LH 151 and LH 155 and LH 230 and LH 245 (minimum grade C for all)

**LH 291 Full-Time Cooperative Education 1: Landscape Horticulture****2 Credits. 1 Lecture Hour. 40 Lab Hours.**

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

**LH 292 Full-Time Cooperative Education 2: Landscape Horticulture****2 Credits. 1 Lecture Hour. 40 Lab Hours.**

Students seeking an associate's degree participate in their second full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: LH 291

**LH 293 Full-Time Cooperative Education 3: Landscape Horticulture****2 Credits. 1 Lecture Hour. 40 Lab Hours.**

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: LH 292