

# Landscape Horticulture (LH)

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## Landscape Horticulture (LH)

The Landscape Horticulture program focuses on interior and exterior landscape design, installation, and management. Students complete foundation courses in horticulture, and then take additional technical courses in subject areas tailored to individual needs, including advanced landscape design, computerized landscape design, landscape construction, arboriculture, or greenhouse or nursery management. Core business courses prepare students for management positions. The Landscape Horticulture degree program is industry-accredited by the Professional Landcare Network (PLANET).

## Landscape Design Certificate (LDC)

The Landscape Design Certificate is for students interested in learning landscape design skills, and is an excellent addition to the Landscape Horticulture major. For students who already have an associate's or bachelor's degree (usually in business or horticulture), the Landscape Design Certificate meets the need for professional credentials in the field of landscape design.

## Landscape Horticulture (LH)

All degree-seeking students must complete a First Year Experience (FYE) course as part of the first 12 credit hours taken at Cincinnati State.

Semester 1		Lec	Lab	Credits
ENG 101	English Composition 1	3	0	3
LH 120	Soil Science and Plant Nutrition	2	2	3
LH 125	Turfgrass Management	2	2	3
LH 130	Woody Plant Materials	1	5	3
LH 140	Landscape Operations	2	3	3
LH 105	Horticulture Occupations	1	1	1
Semester 2				
ACC 101	Financial Accounting	2	2	3
ENG 10X English Composition Elective				3
LH 110	Horticulture Science	2	3	3
LH 151	Landscape Design 1	2	3	3
XXX XXX Computer Elective				3
BUS 190	Professional Practices	2	0	2
Semester 3				
LH 165	Landscape Construction	2	3	3
LH 291	Full-Time Cooperative Education 1: Landscape Horticulture	1	40	2
LH 135	Herbaceous Plant Materials	2	3	3
Semester 4				
ECO 105	Principles of Microeconomics	3	0	3
MKT 1XX Marketing Elective				3
LH XXX Landscape Elective 1				3
LAW 101	Business Law	3	0	3
COMM 110	Public Speaking	3	0	3
Semester 5				
MGT 1XX Management Elective				2
LH 240	Landscape Management	2	3	3
LH XXX Landscape Elective 2				3
XXX XXX Arts/Humanities Elective				3

LH 205	Landscape Pests and Controls	2	3	3
<b>Semester 6</b>				
LH 292	Full-Time Cooperative Education 2: Landscape Horticulture	1	40	2
Total Credits:		38	113	72

## Electives

### English Composition Elective

ENG 102	English Composition 2: Contemporary Issues			3
ENG 105	English Composition 2: Business Communication			3

### Computer Elective

LH 155	Computer-Aided Landscape Design			3
IM 111	Computer Applications 1			3
IM 112	Computer Applications 2			3
IM 120	Electronic Spreadsheets: Microsoft Excel			3

### Landscape Elective

LH 115	Floral Design and Marketing			3
LH 160	Irrigation Design, Installation, and Management			3
LH 175	Interior Plantscaping			3
LH 215	Arboriculture			3
LH 225	GREENHOUSE MANAGEMENT AND PLANT PRODUCTION			3
LH 252	Landscape Design 2			3
LH 265	Landscape Grading, Drainage, and Surveying			3

### Marketing Elective

MKT 101	Principles of Marketing			3
MKT 105	Marketing and Customer Relations			3
MKT 110	Sales and Customer Relations			3
MKT 130	Professional Selling			3
MKT 140	Entrepreneurial Marketing			3

### Management Elective

MGT 100	Introduction to Management			2
MGT 101	Principles of Management			3
MGT 105	Human Resource Management			3
MGT 120	Entrepreneurship			3
MGT 130	Project Management			3

### Arts/Humanities Elective

Any Transfer Module course from ART, COMM, LIT, MUS, PHI, REL, THE

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Semester 1		Lec	Lab	Credits
LH 105	Horticulture Occupations	1	1	1
LH 110	Horticulture Science	2	3	3
LH 120	Soil Science and Plant Nutrition	2	2	3
LH 130	Woody Plant Materials	1	5	3
LH 140	Landscape Operations	2	3	3
LH 151	Landscape Design 1	2	3	3
<b>Semester 2</b>				
LH 135	Herbaceous Plant Materials	2	3	3

LH 155	Computer-Aided Landscape Design	2	3	3
LH 160	Irrigation Design, Installation, and Management	2	3	3
LH 165	Landscape Construction	2	3	3
<b>Semester 3</b>				
LH 240	Landscape Management	2	3	3
LH 252	Landscape Design 2	2	3	3
LH 265	Landscape Grading, Drainage, and Surveying	2	2	3
Total Credits:		24	37	37

## 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 Horticulture Science

#### 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: AFL 085 or appropriate placement test score

### 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. 2 Lab Hours.

A course on the 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: AFL 085 or appropriate placement test score

### 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: AFM 090 or appropriate placement test score

### 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: AFL 085 or appropriate placement test score

### 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: AFL 085 or appropriate placement test score

### 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: AFL 085 or appropriate placement test score

**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. Topics include: generating plot plans, planting plans, and presentation drawings.

Prerequisites: AFL 085 or appropriate placement test score

**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

**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, fences, mounds, ponds, irrigation, and outdoor lighting. Students must participate in field work.

Prerequisites: LH 151

**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

**LH 175 Interior Landscaping**

**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: AFL 085 or appropriate placement test score

**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

**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 198 First Year Special Topics in Landscape Horticultur****1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A course on selected topics related to Landscape Horticulture, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

**LH 199 First Year Independent Project in Landscape Horticulture****1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A project related to Landscape Horticulture that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Landscape Horticulture faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

**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, LH 130, and LH 135

**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

**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

**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, plant production, and managing environmental conditions vital to plant growth. Students must attend field trips.

Prerequisites: LH 110 and LH 135

**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, LH 120, and LH 151

**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: AFM 095 or appropriate placement test score, LH 110, LH 120, and LH 130

**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, LH 135, and LH 151

**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, LH 140, and LH 151

**LH 255 Golf Course Management**

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

A course on development, management, and maintenance of golf courses. Topics include: layout and construction, course management systems, budgeting, record-keeping, and golf-specific turf care.

Prerequisites: LH 125 and LH 151

**LH 260 Athletic Field Management**

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

A course on athletic field management for school, municipal, and professional sports operations. Topics include: turfgrass options, practices for enhancing turf growth and playability, field setup, and field renovation. Students must attend field trips.

Prerequisites: LH 125 and LH 151

**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: AFM 095 or appropriate placement test score and LH 151

**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, LH 155, LH 230, and LH 245

**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

**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

**LH 298 Second Year Special Topics in Landscape Horticulture**

**1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A course on selected topics related to Landscape Horticulture, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

**LH 299 Second Year Independent Project in Landscape Horticulture**

**1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A project related to Landscape Horticulture that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Landscape Horticulture faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section