

ORNAMENTAL HORTICULTURE (OH)

Faculty:

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The Department of Ornamental Horticulture and Environmental Design is future oriented. Our programs reach far beyond aesthetics to address the issues which will positively affect our tomorrows and help shape a healthier, more beautiful and livable world. The curriculum reflects the career diversity, importance and ecological foundation of our programs, and has been designed to prepare people for a profession and for life. Programs of study are rich in the basic sciences and mathematics, liberal arts, and the plant and environmental sciences. Course work within the major starts in the freshman year so that professional development can begin immediately.

The curriculum is designed to allow each student to develop strength and depth in a career area specialty: Floriculture and Nursery Production and Marketing, Landscape Contracting and Management, or Environmental Design (specialization descriptions and requirements are outlined on the following pages). Yet, all students receive a skill overview of the entire field. Ample curriculum flexibility is provided so that students can elect additional science, professional or business courses. Students can minor in any major offered on campus, and special minors are also offered in Landscape Management and Plant Biotechnology. This flexibility and interdisciplinary approach helps a student develop a background which best fits his or her personal career objectives.

The college operates approximately 30,000 square feet of greenhouses including the ultra-modern, computerized Arthur Poley Greenhouse Complex completed in 1998. It also operates a field/container landscape nursery operation, lath houses, and a propagation facility which are used extensively in teaching. A modern teaching complex houses a laboratory, environmental design studio, design jury room, student florist shop, and faculty offices. These facilities are equipped to reflect state-of-the-art standards and are wired for network, internet and telecommunications access. The sixty-acre main campus with its landscape plantings, specimens and gardens is an arboretum and is used extensively as an outdoor laboratory. The Henry Schmieder Arboretum is a member of the American Association of Botanical Gardens and Arboreta and The Gardens Collaborative.

The campus is located close to many large landscape nurseries, greenhouse production facilities, retail and wholesale florists, arboreta and display gardens. Field trips to Longwood Gardens, Morris Arboretum, Princeton Nurseries, and commercial greenhouses, to mention only a few, are taken to enrich classroom teaching.

The Department of Ornamental Horticulture and Environmental Design works closely with industry leaders and organizations to continually fine-tune its programs to address the future needs of students and industry. To help ensure this, an industry advisory group, consisting of individuals representing the broad spectrum of Ornamental Horticulture and Environmental Design, meets periodically to review our programs and to suggest improvement.

An Ornamental Horticulture degree opens many career opportunities for the graduate. Each is a career with a future helping to shape a better tomorrow. Our unique employment program, which enables students to actually experience their professions, combined with the DVC hands-on approach, gives our graduates an employment edge. Graduates in Ornamental Horticulture have found positions as: Landscapers, Landscape Designers, Garden Center Managers, Assistant Growers, Floral Designers, Floral Shop Managers, and Greenhouse Managers, to name but a few.

A Bachelor of Science degree in Ornamental Horticulture also paves the way to graduate school and continued education leading to careers in landscape architecture, research, biotechnology, plant breeding, high school and college teaching, and many areas of plant science.

The total number of credits required for graduation with a degree in Ornamental Horticulture and Environmental Design is 128 plus 4 credits earned for successful completion of the Employment Program.

Recommended Course Sequence

Environmental Design

The Environmental Design program was developed for students planning careers in landscape design, design/build, and other design-oriented professions, all with an ecological emphasis. This specialization can serve as a pre-MLA (Master of Landscape Architecture) program. The MLA is the preferred degree for landscape architecture. To receive transfer credit for design studios, a portfolio must be evaluated.

Ornamental Horticulture/ Environmental Design Freshman Year

First Semester

<u>Course No.</u>	<u>Course Title</u>	<u>Credits</u>	<u>Hours</u>
EN 1101	English I or		
EN 1111	Advanced English I	3	(3-0)
MP 1102	College Algebra or		
MP 1203	Elementary Functions	3	(3-0)
CH 1001	Chemistry Fundamentals	4	(3-3)
BY 1116	Biological Science I	3	(2-3)
OH 2220	Woody Plant Identification I	2	(1-3)
PE 1109	Physical Education I	1	(0-2)
		16	

Second Semester

EN 1201	English II or		
EN 1211	Advanced English II	3	(3-0)
MP 1203	Elementary Functions or		
MP 1204	Calculus I	3-4	(3 or 4-0)
OH 2118	Woody Plant Identification II	2	(1-3)
AE 2004	Soils	3	(2-3)
OH 2014	Floriculture Techniques	3	(2-3)
PE 1209	Physical Education II	1	(0-2)
		15-16	

Employment Program

OH 2370	Employment Program	1-2	
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Sophomore Year

First Semester

<u>Course No.</u>	<u>Course Title</u>	<u>Credits</u>	<u>Hours</u>
OH 3117	Herbaceous Plant Materials I	2	(1-3)
AE 3107	Environmental Geology	3	(2-3)
AE 2017	Topographical Surveying	3	(2-3)
OH 3213	Landscape Graphics	2	(0-4)
IT 1011	Information Technology Concepts	1.5	(1.5-0)
IT 1012	Computer Applications	1.5	(1.5-0)
OH 2015	Landscape Techniques	3	(2-3)
		16	

Second Semester

OH 3205	Site Analysis and the Design Process	3	(0-6)
OH 3217	Herbaceous Plant Materials II	2	(1-3)
BY 2235	Plant Communities	3	(2-3)
EN 2028	Introduction to Literature	3	(3-0)
IT 3220	Computer-Aided Design	3	(3-0)
AE 3220	Hydrology	3	(2-3)
		17	

Employment Program

OH 2370	Employment Program	1-2	
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Junior Year

First Semester

<u>Course No.</u>	<u>Course Title</u>	<u>Credits</u>	<u>Hours</u>
OH 3130	Major Native Landscapes	3	(0-6)
OH 3224	Landscape Construction	3	(2-3)
LA 2005	Speech	3	(3-0)
LA 2040	Modern History of Western Societies Electives	3	(3-0)
		5	
		17	

Second Semester

OH 3216	History of Landscape Architecture	2	(2-0)
OH 4215	The Built Environment	3	(0-6)
LA 3032	American History and Government Since 1933	3	(3-0)
LA 4038	Cultural Enrichment Electives	1	
		6	
		15	

Employment Program

OH 2370	Employment Program	1-2	
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Senior Year

First Semester

<u>Course No.</u>	<u>Course Title</u>	<u>Credits</u>	<u>Hours</u>
OH 4008	Ornamental Horticulture Seminar	1	(1-0)
LA 4037	Non-Western Societies	3	(3-0)
OH 4125	Ecological Landscape Management & Restoration	3	(2-3)
OH 4034	Sustainable Design and Model Making	3	(0-6)
LA 1060	Introduction to the Arts Elective	3	(3-0)
		3	
		16	

Second Semester

OH 4230	Landscape Contracting and Bidding	3	(2-3)
BA 3028	Supervision & Mgt.	3	(3-0)
BA 2008	Macroeconomics	3	(3-0)
AE 4015	Regional Land Use Planning	3	(3-0)
	Philosophy/Psychology/ Sociology Area	3	(3-0)
	Elective	1	
		16	

Floriculture and Nursery Production and Marketing

The Floriculture and Nursery Production and Marketing program has been developed for students whose career goals include one or more of the following: floral or nursery marketing, garden center management, floral design and decorating, greenhouse and/or nursery management and production, interiorscaping, mass merchandising of ornamental products, and all areas of floral and nursery business. This is a genuine seed to sale program.

Ornamental Horticulture/Floriculture Freshman Year**First Semester**

Course No.	Course Title	Credits	Hours
EN 1101	English I or		
EN 1111	Advanced English I	3	(3-0)
MP 1102	College Algebra or		
MP 1203	Elementary Functions	3	(3-0)
CH 1103	General Chemistry I	4	(3-3)
BY 1116	Biological Science I	3	(2-3)
OH 2014	Floriculture Techniques or		
OH 2015	Landscape Techniques	3	(2-3)
PE 1109	Physical Education I	1	(0-2)
		17	

Second Semester

EN 1201	English II or		
EN 1211	Advanced English II	3	(3-0)
MP 1203	Elementary Functions or		
MP 1204	Calculus I	3-4	(3 or 4-0)
CH 1203	General Chemistry II	4	(3-3)
BY 1217	Biological Science II	3	(2-3)
OH 2014	Floriculture Techniques or		
OH 2015	Landscape Techniques	3	(2-3)
PE 1209	Physical Education II	1	(0-2)
		17-18	

Employment Program

OH 2370	Employment Program	1-2	
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Sophomore Year**First Semester**

Course No.	Course Title	Credits	Hours
OH 2220	Woody Plant Identification I	2	(1-3)
LA 2040	Modern History of Western Societies	3	(3-0)
HT 2101	Botany of Vascular Plants	3	(2-3)
BA 2008	Macroeconomics	3	(3-0)
EN 2028	Introduction to Literature	3	(3-0)
	Elective	2	
		16	

Second Semester

IT 1011	Information Technology Concepts	1.5	(1.5-0)
IT 1012	Computer Applications	1.5	(1.5-0)
OH 2118	Woody Plant Identification II	2	(1-3)
LA 2005	Speech	3	(3-0)
BY 2003	Genetics	3	(2-2)
AE 2004	Soils	3	(2-3)
	Elective	1	
		15	

Employment Program

OH 2370	Employment Program	1-2	
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Junior Year**First Semester**

Course No.	Course Title	Credits	Hours
OH 3117	Herbaceous Plant Materials I	2	(1-3)
HT 4106	Marketing Horticultural Products	2	(1-3)
OH 3106	Floral Crop Production I	2	(1-3)
HT 2005	Plant Physiology	3	(2-3)
LA 3032	American History and Government Since 1933	3	(3-0)
	Elective	4	
		16	

Second Semester

OH 3208	Floral Crop Production II	2	(1-3)
OH 3005	Plant Propagation	3	(2-3)
OH 3217	Herbaceous Plant Materials II	2*	(1-3)
OH 3232	Introductory Floral Design or		(0-6)
OH 4206	Nursery Management	3	(2-3)
BY 3007	Entomology	3	(2-3)
	Elective	3	
		16	

Employment Program

OH 2370	Employment Program	1-2	
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Senior Year

First Semester

<u>Course No.</u>	<u>Course Title</u>	<u>Credits</u>	<u>Hours</u>
LA 4037	Non-Western Societies	3	(3-0)
LA 4038	Cultural Enrichment	1	
HT 4005	Plant Pathology	3	(2-3)
	Electives	9	
		16	

Second Semester

OH 4008	Seminar	1	(1-0)
LA 1060	Introduction to the Arts Philosophy/Psychology/ Sociology Area	3	(3-0)
	Electives	8	
		15	

Landscape Contracting and Management

This program is intended for students desiring a career in the allied nursery professions such as nursery management, production or marketing, landscape contracting construction and design/build, garden center management, landscape management (golf courses, parks, residential, etc.), arboriculture, urban forestry, landscape/nursery sales, etc.

**Ornamental Horticulture/Landscaping
Contracting and Management
Freshman Year**

First Semester

<u>Course No.</u>	<u>Course Title</u>	<u>Credits</u>	<u>Hours</u>
EN 1101	English I or		
EN 1111	Advanced English I	3	(3-0)
MP 1102	College Algebra or		
MP 1203	Elementary Functions	3	(3-0)
CH 1103	General Chemistry I	4	(3-3)
BY 1116	Biological Science I	3	(2-3)
OH 2014	Floriculture Techniques or		
OH 2015	Landscape Techniques	3	(2-3)
PE 1109	Physical Education I	1	(0-2)
		17	

Second Semester

EN 1201	English II or		
EN 1211	Advanced English II	3	(3-0)
MP 1203	Elementary Functions or		
MP 1204	Calculus I	3-4	(3 or 4-0)
CH 1203	General Chemistry II	4	(3-3)
BY 1217	Biological Science II	3	(2-3)
OH 2014	Floriculture Techniques or		
OH 2015	Landscape Techniques	3	(2-3)
PE 1209	Physical Education II	1	(0-2)
		17-18	

Employment Program

OH 2370	Employment Program	1-2	
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**Sophomore Year
First Semester**

<u>Course No.</u>	<u>Course Title</u>	<u>Credits</u>	<u>Hours</u>
OH 2220	Woody Plant Identification I	2	(1-3)
AE 2004	Soils	3	(2-3)
HT 2101	Botany of Vascular Plants	3	(2-3)
BA 2008	Macroeconomics	3	(3-0)
BY 2003	Genetics	3	(2-2)
	Elective	1	
		15	

Second Semester

IT 1011	Information Technology Concepts	1.5	(1.5-0)
IT 1012	Computer Applications	1.5	(1.5-0)
OH 2118	Woody Plant Identification II	2	(1-3)
LA 2005	Speech	3	(3-0)
AE 2017	Topographical Surveying and GIS	3	(2-3)
EN 2028	Introduction to Literature Elective	3	(3-0)
		2	
		16	

Employment Program

OH 2370	Employment Program	1-2	
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Junior Year

First Semester

<u>Course No.</u>	<u>Course Title</u>	<u>Credits</u>	<u>Hours</u>
OH 3117	Herbaceous Plant Materials I	2	(1-3)
OH 3005	Plant Propagation	3	(2-3)
HT 2005	Plant Physiology	3	(2-3)
LA 3032	American History and Government Since 1933	3	(3-0)
	Electives	6	
		17	

Second Semester

OH 3217	Herbaceous Plant Materials II	2	(1-3)
LA 2040	Modern History of Western Societies	3	(3-0)
BY 2007	Entomology	3	(2-3)
OH 3205	Site Analysis and the Design Process Electives	3	(0-6)
		5	
		16	

Employment Program

OH 2370	Employment Program	1-2	
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Senior Year
First Semester

Course No.	Course Title	Credits	Hours
OH 3124	Landscape Construction	3	(2-3)
LA 4037	Non-Western Societies	3	(3-0)
LA 4038	Cultural Enrichment Philosophy/Psychology/Sociology Area Elective	1	
		3	(3-0)
		6	
		16	

Second Semester

OH 4230	Landscape Construction & Bidding	3	(3-0)
OH 4008	Seminar	1	(1-0)
LA 1060	Introduction to the Arts	3	(3-0)
HT 4005	Plant Pathology Electives	3	(2-3)
		5	
		15	

Restricted Elective Courses

Floriculture and Nursery Production and Marketing specialization students must elect at least 12 credits from among the following courses labeled with an "F." Landscape Contracting and Management specialization students must elect at least 9 credits from among the following courses labeled with an "L."

Course No.	Course Title	Credits	Hours
AE 3106	Turf and Grounds Machinery Mgt. (L/F)	3	(2-3)
AE 3108	Irrigation Technology (L)	3	(2-3)
AE 3114	Introduction to Turf Management (L/F)	3	(2-3)
AE 3202	Plant Breeding (L/F)	3	(2-3)
AE 3230	Turf Cultural Systems (L/F)	3	(2-3)
AE 4116	Weed Science (L/F)	4	(2-3)
BY 2235	Plant Communities (L/F)	3	(2-3)
IT3220	Computer Aided Design (L/F)	3	(3-0)
HT 3025	Plant Cell Tissue Culture (L/F)**	2	(1-3)

HT 3230	Hydroponics (L/F)****	2	(1-3)
HT 3240	Integrated Pest Mgt. (L/F)	3	(2-3)
HT 4132	Princ. of Plant Protection (L/F)	3	(2-2)
HT 4225	Plant Disease Diagnosis (L/F)	3	(2-3)
OH 3020	Basic Design (L/F)	1	(0-2)
OH 3109	Interior Plant Identification, Culture and Use	2	(2-0)
OH 3130	Major Native Landscapes (L)	3	(0-6)
OH 3205	Site Analysis and the Design Process (F)	3	(0-6)
OH 3213	Landscape Graphics (L/F)	2	(0-4)
OH 3216	History of Landscape Architecture (L)	2	(2-0)
OH 3225	Arboriculture (L)**	3	(2-3)
OH 3240	Advanced Woody Plant Materials (L/F)**	2	(1-3)
OH 3210	Interior Landscaping**	2	(2-0)
OH 4125	Ecological Landscape Mgt. and Restoration (L/F)	3	(2-3)
OH 4145	Advanced Floral Design (F)*	2	(0-4)
OH 4206	Nursery Management (L/F)*	3	(2-3)
OH 4209	Greenhouse Management (L/F)	3	(2-3)
OH 4215	The Built Environment (L)	3	(0-6)

All transfer students must complete at least 15 credits of Ornamental Horticulture course work at Delaware Valley College as approved by the Department Chairperson.

*Offered in Fall Semester of odd numbered years.

**Offered in Fall Semester of even numbered years.

***Offered in Spring Semester of even numbered years.

****Offered in Spring Semester of odd numbered years.

Ecological Landscape Management Minor

In response to the increasing number of career opportunities in this field as well as student interest in managing arboreta, botanical gardens, golf courses, commercial campuses, etc., the Department of Ornamental Horticulture & Environmental Design offers an elective minor in Landscape Management. Students who successfully complete this minor before graduation will have completion of the minor designated on their official record. The minor includes:

Course No.	Course Title	Credits	Hours
BA 3028	Supervision and Mgt.	3	(3-0)
AE 2209	Soil Fertility***	3	(2-3)
AE 3106	Turf and Grounds Machinery Management	3	(2-3)
OH 3225**	Arboriculture*	3	(2-3)
AE 4114	Turf Management***	3	(2-3)
OH 4125	Ecological Landscape Mgt. and Restoration	3	(2-3)
HT 4132	Principles of Plant Protection	3	(2-2)

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*Requires prerequisite.

** Six credits of these minor requirements are to be taken to satisfy restricted elective requirements (see elsewhere). The remaining 15 credits of course work will fit under the department's free elective requirement.

Biotechnology Minor (for Plant Science Majors)

Students majoring in the Plant Science area (Agronomy, Horticulture or Ornamental Horticulture) may enroll in an interdisciplinary minor including the following recommended courses. Substitutions may be arranged in advance with permission of the Department Chairperson.

Course No.	Course Title	Credits	Hours
CH 2203	Biochemistry***	4	(3-3)
OH 3000	Selected Topics	1	
BT 3000	Introduction to Biotechnology***	3	(3-0)
MP 3231	Statistics for Research***	3	(3-0)
BY 4155	Molecular Biology***	4	(3-3)
		15	

*Requires prerequisite.

Biotechnology

BT 3000 Introduction to Biotechnology

An interdisciplinary course designed to provide increased familiarity with the concepts, objectives, techniques, ethical and regulatory considerations in the developing areas of biotechnology. Topics include molecular genetics, bacteria, viruses, and applications in biological, medical, food, plant and animal sciences. Prerequisites: Biology II, or Biological Science II, and Biochemistry. Meets the requirements for certification in Education, General Science and Biology minors. Does not substitute for Molecular Biology. Offered in Spring Semester. 3 hours Lecture and Discussion—3 credits

Course Descriptions

OH 2118 Woody Plant Identification II

The course focuses on the identification, culture and landscape uses of native and introduced trees, shrubs and vines. This spring course features plants that are evergreen and also plants that bloom in the spring. CAN be taken without Woody Plant Identification I. 1 hour Lecture and 3 hours Laboratory—2 credits

OH 2220 Woody Plant Identification I

The course focuses on the identification, culture and landscape uses of native and introduced trees, shrubs and vines. This fall course features plants that bloom in the summer and fall as well as plants that display autumn foliage and fruits. 1 hour Lecture and 3 hours Laboratory—2 credits

OH 3000, 4000 Selected Topics I and II

Special projects designed to meet individual needs of students in the specialized fields of agriculture. Projects arranged on a one-to-one basis with a department faculty member and with the approval of the Department Chairperson. Total Selected Topics credit accepted toward graduation is limited to 2 credits. 3 hours of student/faculty instruction per week—1 credit each

OH 3005 Plant Propagation

The course covers, in theory and practice, the principles and methods involved in the propagation of woody and herbaceous plants. Sexual reproduction and asexual reproduction by cuttings, graftage, layering, etc. are considered and practiced. 2 hours Lecture and 3 hours Laboratory—3 credits

OH 3020 Basic Design

A practical and applied approach to the elements and principles of design, using mixed mediums. The course culminates with a three-dimensional presentation. 2 hours Studio—1 credit

OH 3101 Flower Show Practicum

In this course, students are involved with every aspect of a major exhibit at the largest indoor flower show in the world. Field trips and guest lecturers are used extensively to enrich the course. NOTE: This special course runs from September through March, with times arranged. Students must register for course for Fall and Spring semesters. Total practicum credit accepted towards graduation is limited to 2 credits. 1 credit, pass/fail

OH 3106 Floral Crop Production I

Fall and winter major and minor floral crops are studied to indicate specific applications of the fundamental factors and cultural practices required. Prerequisite: Floriculture Techniques or Permission of Instructor. 1 hour Lecture & 3 hours Laboratory—2 credits

OH 3109 Interior Plant Identification, Culture and Use

This self-paced, independent course of study uses the resources of the College's Arthur Poley Conservatory and the Henry Schmieder Arboretum tropical plant collections, a specially designed internet accessible study manual and instructor/student interaction to guide students in the study of interior plant identification, culture and use. 2 hours lecture (Arranged) — 2 credits

OH 3117 Herbaceous Plant Materials I

The identification, use culture, and sources of annuals, aquatics, biennials, bulbs, and ornamental grasses are covered. Extensive use is made of the Henry Schmieder Arboretum plant collections. 1 hour Lecture and 3 hours Laboratory—2 credits

OH 3130 Major Native Landscapes

This design studio features natural processes, planting patterns, plant habitats and communities based on the interdependence of our built and natural landscapes. Students will be able to integrate residential sites into the larger landscapes and understand landscape dynamics and design accordingly. Prerequisites: Woody Plant Identification I and II, Site Analysis and the Design Process, Herbaceous Plant Materials and Landscape Graphics. 6 hours Studio—3 credits

OH 3205 Site Analysis and the Design Process

An introduction to landscape design, this studio course explores the process of developing a scheme from a program to the final design. Students study the process of natural and social site analysis, and learn to use concept diagrams in developing the most appropriate solution to a given site and the development of presentation. 6 hours Studio—3 credits

OH 3208 Floral Crop Production II

Winter and spring major and minor crops including bedding plants are studied to indicate specific application of the fundamental factors and cultural practices required. CAN be taken without Floral Crop Production I. Prerequisite: Floriculture Techniques or Permission of Instructor. 1 hour Lecture and 3 hours Laboratory—2 credits

OH 3210 Interior Plantscaping

This course examines “Stress Horticulture” as it effects Interior Plantscaping, the landscaping of interior areas such as offices, shopping malls, and other public and private buildings. It explores Interior Plantscaping professional practice, design, installation, and maintenance and introduces computer imaging as a valuable Interiorscaping tool. Prerequisite: OH 3109 Interior Plant Identification Culture and Use. Offered in Fall Semester of even numbered years. 2 hours lecture — 2 credits

OH 3213 Landscape Graphics

This course focuses on perspective drawing, computer graphics and various rendering techniques for presentational landscapes relating to the professional needs of landscape designers and architects. Topics covered include lettering, constructional details, one and two point perspectives, isometrics, free-hand drawing and shadowing. 4 hours Studio—2 credits

OH 3216 History of Landscape Architecture

A critical and historical analysis of the development of the main types and periods of landscape design. 2 hours Lecture and Discussion—2 credits

OH 3217 Herbaceous Plant Materials II

The identification, use, culture, and sources of perennials, herbs and roses are covered. Extensive use is made of the Henry Schmieder Arboretum plant collections. 1 hour Lecture and 3 hours Laboratory—2 credits

OH 3224 Landscape Construction

Understanding the materials used in Landscape Construction, design consideration for these materials, and installation of construction projects. 2 hours Lecture and 3 hours Laboratory—3 credits

OH 3225 Arboriculture

Principles are presented in this course that pertain to the area and management of large ornamental trees and shrubs in the established landscape. Consideration is given to environmental factors, nutrition, soils, insect and disease control, and the use of ropes and other safety equipment in tree climbing, cavity work, bracing, cabling, and pruning. Prerequisites: Landscape Techniques and/or Permission of Instructor. Offered in Spring Semester of odd numbered years. 2 hours Lecture and 3 hours Laboratory—3 credits

OH 3232 Introductory Floral Design

Basic skills and techniques required to create floral arrangements, corsages, and various other designs are discussed and practiced. Use of materials, care of cut flowers, and appropriate design presentation are discussed. Laboratory fee: \$100. 6 hours Studio—3 credits

OH 3240 Advanced Woody Plant Materials

An advanced course in the characteristics, identification and use of landscape plant materials. Stress is placed on unusual plants. Prerequisites: Woody Plant Identification I and II. Offered in Spring Semester of even numbered years. 1 hour Lecture and 3 hours Laboratory—2 credits

OH 4008 Seminar (Ornamental Horticulture and Environmental Design)

This course involves the research, construction and presentation of a seminar in the student’s field of interest. 1 hour Lecture and Discussion—1 credit

OH 4034 Sustainable Design and Model Making

This studio course focuses on design issues of town houses, garden apartments, shopping and other commercial development on real sites. Computer Aided Design, imaging and other technologies will be fully integrated into this practical studio. Site design model making will also be a component of this course. 6 hours Studio—3 credits

OH 4041 Senior Research

Selected seniors engage in supervised investigations involving library work and laboratory or field experiments related to ornamental horticulture. Requirement: Permission of Department Chairperson. 1-3 credits

OH 4125 Ecological Landscape Management and Restoration

The intent of this course is to present and develop the methodology to restore, manage and design natural systems and landscapes. The focus will be on a variety of different habitat types, including: woodlands, urban woodlands, grasslands, wetlands, and parkscapes. Field trips are required. 2 hours Lecture and 3 hours Laboratory—3 credits

OH 4145 Advanced Floral Design

Emphasis is placed on creative floral design techniques for weddings, parties, funerals, holidays, and current design trends. Discussions follow the history of some design styles, market trends, current plant availabilities, shop management and operations. Prerequisite: Introductory Floral Design. Laboratory Fee: \$50. Offered in Fall Semester of odd numbered years. 4 hours Studio—2 credits

OH 4206 Nursery Management

This course offers a study of the various practices and methods of operating a commercial nursery for the production of ornamental trees and shrubs. Prerequisites: Woody Plant Identification I and II and Plant Propagation, or Permission of Instructor. Offered in Spring Semester of even numbered years. 2 hours Lecture and 3 hours Laboratory—3 credits

OH 4209 Greenhouse Management

This is a study of the principles involved in the construction, maintenance, and utilization of greenhouse facilities, including the management of the greenhouse environment. 2 hours Lecture and 3 hours Laboratory—3 credits

OH 4215 The Built Environment

The central objective of this design studio is to develop a holistic view of how to integrate the fabric of the built environment with the natural environment. The course explores plant associations, plant species and planting methods appropriate to urban conditions and stresses the geometry of space created by buildings, fountains, walls, pavements, etc. Several design projects are undertaken. Prerequisite: Major Native Landscapes. 6 hours Studio—3 credits

OH 4230 Landscape Contracting and Bidding

The course focuses on the comprehension of the costs involved in the operation of a landscape contracting business, strategies for the recovery of those costs, and methodology for obtaining reasonable profits. 3 hours Lecture and Discussion—3 credits

Specialize Methods and Techniques***OH 2014 Floriculture Techniques***

This course stresses the application of basic floriculture, greenhouse management and crop-production techniques, as well as fundamental florist skills, through hands-on laboratories in small groups and practical lectures. Required for all Ornamental Horticulture majors. 2 hours Lecture and 3 hours Laboratory—3 credits

OH 2015 Landscape Techniques

This course stresses the application of basic landscaping, landscape maintenance and nursery production, handling and marketing techniques through hands-on laboratories in small groups and practical lectures. Required for all Ornamental Horticulture majors. 2 hours Lecture and 3 hours Laboratory—3 credits

Employment Program***OH 2370 Employment Program***

Each student in Ornamental Horticulture and Environmental Design is required to spend 24 weeks (960 hours) in approved jobs related to the student's major. Registration for each Employment Program must occur prior to the beginning of a relevant experience. Registration materials are available from Career Services, located in Segal Hall. 24 weeks of On-the-Job Training—4 credits