

# Horticulture

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## Introduction to Horticulture

HORT 1100 - 3 Credits

Principles and practices in the development, production and use of horticultural crops. Includes classification, structure, growth and development, environmental influences on horticultural plants, and vocational opportunities in the horticultural industries. (2 lecture hours, 2 lab hours)

## Soils and Fertilizers

HORT 1101 - 3 Credits

Nature and characteristics of soils including physical, chemical and biological properties, soil origins, classification, soilless media and proper soil management. Examines the interrelationship between soils and fertilizers and the selection and use of fertilizers to meet plant nutritional needs. (2 lecture hours, 2 lab hours)

## Floral Design I

HORT 1105 - 3 Credits

Principles and elements of floral design, with practice in creating basic floral designs and using proper techniques. Includes identification, care and handling of flowers. (2 lecture hours, 2 lab hours)

## Applied Plant Taxonomy

HORT 1110 - 3 Credits

Classification of plant families with an emphasis on plant material used in the horticulture industry. Prerequisite: Horticulture 1100 or consent of instructor. (2 lecture hours, 2 lab hours)

## Landscape Design I

HORT 1111 - 3 Credits

The process of residential landscape design, site analysis and practical solutions of typical landscape problems. Includes plant selection, graphic presentation and correct placement of materials in the residential landscape. (2 lecture hours, 2 lab hours)

## Landscape Maintenance and Construction

HORT 1112 - 3 Credits

Landscape installation, maintenance and construction for residential, recreational and public grounds. (2 lecture hours, 2 lab hours)

## **Floral Design II**

HORT 1115 - 3 Credits

Continuation of the principles covered in Floral Design I. Introduces new styles and techniques and includes flower shop management. Prerequisite: Horticulture 1105 or equivalent or consent of instructor. (2 lecture hours, 2 lab hours)

## **Water Conversation in the Landscape**

HORT 1125 - 1 Credits

Residential water management issues and best practices needed for the retention and infiltration of water on a landscape site. Includes discussion of rain gardens, bio-swales and native plantings to conserve water. (1 lecture hour)

## **Horticulture Business**

HORT 1130 - 3 Credits

Principles and practices of operating a horticultural business and operational procedures for dealing with the perishable and seasonal nature of horticulture. Includes trends, skills and career opportunities in the various disciplines within horticulture. (3 lecture hours)

## **Landscaping for Wildlife**

HORT 1131 - 1 Credits

A study of landscape environments that offer food, water, and shelter/nesting cover to local wildlife to help species compete in our changing environment. The role of native plants in sustaining wildlife will be emphasized. (1 lecture hour)

## **Introduction to Green Roofs**

HORT 1135 - 1 Credits

The basics of green roof design, construction, and maintenance. Includes benefits of green roofs and a review of the products, plants, and growing media used in green roof applications. (1 lecture hour)

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## Landscape Graphics

HORT 1140 - 2 Credits

Drawing plans, section-elevations and perspectives for landscape design. Includes the use of pencils and markers for lettering, drafting and color renderings (2 lecture hours)

## Sustainable Landscape Design

HORT 1141 - 1 Credits

Sustainable landscape design and construction practices that minimize loss of natural resources. The economic benefits of sustainable practices will also be discussed. (1 lecture hour)

## Perennial Plant Communities I

HORT 1145 - 2 Credits

Introduction to selecting perennial plants that grow well together and have similar maintenance requirements to create diverse, compatible, functional and beautiful gardens. Perennial plants are combined based on cost, maintenance and aesthetic appeal. (2 lecture hours)

## Arboriculture

HORT 1185 - 3 Credits

Care and maintenance of trees and shrubs in the urban landscape. Includes Plant Health Care (PHC), environmental factors affecting plants, and proper and safe use of tools. (2 lecture hours, 2 lab hours)

## Special Project

HORT 1800 - 1-3 Credits

Special project courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

## **Selected Topics**

### **HORT 1820 - 3 Credits**

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for credit as long as different topics are selected. (3 lecture hours)

## **Selected Topics**

### **HORT 1821 - 3 Credits**

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for credit as long as different topics are selected. (2 lecture hours, 2 lab hours)

## **Selected Topics**

### **HORT 1824 - 2 Credits**

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for credit as long as different topics are selected. (2 lecture hours)

## **Selected Topics**

### **HORT 1826 - 1 Credits**

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for credit as long as different topics are selected. (2 lab hours)

## **Selected Topics**

### **HORT 1827 - 1 Credits**

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. This course may be taken four times for credit as long as different topics are selected. (1 lecture hour)

## **Independent Study**

### **HORT 1840 - 1-4 Credits**

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Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. This course may be taken four times for credit as long as different topics are selected. Prerequisite: Consent of instructor is required (1 to 4 lecture hours)

## Computer-Aided Drafting for Landscape

HORT 2211 - 3 Credits

Introduction to computer-aided design and drafting utilizing landscape-specific DynaSCAPE software. Prerequisite: Horticulture 1111 or equivalent or consent of instructor (2 lecture hours, 2 lab hours)

## Adv. Computer-Aided Draft for Landscape

HORT 2212 - 3 Credits

Advanced Computer-Aided Design (CAD) and drafting utilizing landscape-specific DynaSCAPE software. Includes producing quotes from CAD designs and producing designs in color. Prerequisite: Horticulture 2111 or equivalent or consent of instructor (2 lecture hours, 2 lab hours)

## Plant Propagation

HORT 2221 - 3 Credits

Principles and practices of sexual and asexual propagation of plants used in the horticulture industry. Includes work with seeds, cuttings, grafting, micropropagation, special structures and layering. (2 lecture hours, 2 lab hours)

## Specialty Floral Design

HORT 2225 - 3 Credits

Advanced floral design skills using principles, elements and techniques to create party, wedding and sympathy presentations. Prerequisite: Horticulture 1115 or equivalent or consent of instructor (2 lecture hours, 2 lab hours)

## Turf Science and Management

HORT 2231 - 3 Credits

Principles and methods of selecting, establishing and maintaining turf for residential lawns, parks, sports fields and golf courses. Includes cultural practices such as fertilization, irrigation and

cultivation, as construction and renovation techniques. Also covers weed, insect and disease identification and control. (2 lecture hours, 2 lab hours)

## **Landscape Plants I**

HORT 2241 - 3 Credits

Identification of woody ornamental trees, shrubs, vines and groundcovers common to northern Illinois with an emphasis on deciduous plants. Includes adaptability, cultural requirements and placement in the landscape. Prerequisite: Horticulture 1100 or consent of instructor (2 lecture hours, 2 lab hours)

## **Landscape Plants II**

HORT 2242 - 3 Credits

Identification of woody ornamental trees, shrubs, vines and groundcovers common to northern Illinois with an emphasis on narrow and broad-leaved evergreens. Includes adaptability, cultural requirements and placement in the landscape. Prerequisite: Horticulture 1100 or consent of instructor (2 lecture hours, 2 lab hours)

## **Ornamental Grasses**

HORT 2243 - 2 Credits

Identification and use of ornamental grasses in the landscape. Includes propagation, production and designing with native and non-native grasses. (2 lecture hours)

## **Herbaceous Perennials**

HORT 2244 - 3 Credits

Identification, selection, design and maintenance of herbaceous perennials in the landscape. Prerequisite: Horticulture 1100 or consent of instructor. (2 lecture hours, 2 lab hours)

## **Perennial Plant Communities II**

HORT 2245 - 1 Credits

Design, installation and evaluation of perennial plant community gardens. Plant selections are based on time, cost and sustainability. Prerequisite: Horticulture 1145 or equivalent (1 lecture hour)

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## Diseases of Ornamental Plants

HORT 2251 - 3 Credits

Detection, identification and treatment of common plant diseases. Includes analysis of symptoms, selection of chemicals, preventive measures and selection of disease resistant ornamental plants. (2 lecture hours, 2 lab hours)

## Greenhouse Operations and Procedures

HORT 2253 - 3 Credits

Principles and practices of operating a commercial greenhouse. Includes types of greenhouse structures, greenhouse components, plant nutrition, greenhouse pests, crop scheduling, and business management principles for the greenhouse industry. Prerequisite: Mathematics 0460 (or college equivalent) or consent of instructor (2 lecture hours, 2 lab hours)

## Greenhouse Crop Production

HORT 2255 - 3 Credits

Principles and practices utilized in growing and maintaining greenhouse crops such as bench and pot mums, poinsettias, lilies, bulbs, azaleas, hydrangeas, foliage and miscellaneous pot crops. Includes hands-on experience with these crops. (2 lecture hours)

## Bedding Plant Production

HORT 2257 - 3 Credits

Principles and practices of bedding plant and plug production. Includes culture and identification of annual plant material such as petunias, marigolds, impatiens, begonias, geraniums and miscellaneous bedding plant varieties. Hands-on experience with these crops is provided. (2 lecture hours, 2 lab hours)

## Insects of Ornamental Plants

HORT 2261 - 3 Credits

Detection, identification and eradication of local species of insects that damage ornamental plants. Includes selection and use of pesticides for insect control. Prerequisite: Course requires Reading Placement Test Score-Category One (2 lecture hours, 2 lab hours)

## Landscape Design II

HORT 2271 - 3 Credits

The design process with emphasis on problem solving and hardscape materials. Includes graphics, estimating, sales, and construction processes as they relate to design, installation and costs. Prerequisite: Horticulture 1111 and Horticulture 2241 (2 lecture hours, 2 lab hours)

## Special Project

HORT 2800 - 1-3 Credits

Special project courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in the discipline or consent of instructor

## Internship (Career & Technical Ed)yCoop Ed/Internship Occup

HORT 2860 - 1-4 Credits

Course requires participation in Career and Technical Education work experience with onsite supervision. Internship learning objectives are developed by student and faculty member, with approval of employer, to provide appropriate work-based learning experiences. Credit is earned by working a minimum of 75 clock hours per semester credit hour, up to a maximum of four credits. Prerequisite: 2.0 cumulative grade point average; 12 semester credits earned in a related field of study; students work with Career Services staff to obtain approval of the internship by the Associate Dean from the academic discipline where the student is planning to earn credit.

## Internship (Career & Technical Ed)yCoop Ed/Internship Occup

HORT 2863 - 3 Credits

Course requires participation in Career and Technical Education work experience with onsite supervision. Internship learning objectives are developed by student and faculty member, with



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approval of employer, to provide appropriate work-based learning experiences. Credit is earned by working a minimum of 225 clock hours for three semester credit hours. Prerequisite: 2.0 cumulative grade point average; 12 semester credits earned in a related field of study; students work with Career Services staff to obtain approval of the internship by the Associate Dean from the academic discipline where the student is planning to earn credit.

## Internship Advanced (Career & Tech Ed)

### HORT 2865 - 1-4 Credits

Continuation of Internship (Career and Technical Education). Course requires participation in Career & Technical Education work experience with onsite supervision. Internship learning objectives are developed by student and faculty member, with approval of employer, to provide appropriate work-based learning experiences. Credit is earned by working a minimum of 75 clock hours per semester credit hour, up to a maximum of four credits. Prerequisite: 2.0 cumulative grade point average; 12 semester credits earned in a related field of study; students work with Career Services staff to obtain approval of the internship by the Associate Dean from the academic discipline where the student is planning to earn credit.