General Horticulture

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School of Business

Associate in Applied Science Degree

This program is designed to provide a generalized study of horticulture requiring basic introductory courses while offering a wide range of electives so that the students can develop their desired areas of expertise.

Students receive training in plant identification, botany, entomology, soils, and horticulture. Students may elect courses such as: greenhouse management, plant propagation, landscape drafting, landscape construction, commercial floral design and arboriculture. The laboratory hours provide students with valuable “hands-on” experiences in our extensive greenhouses and ornamental teaching gardens.

Professional development opportunities are varied since the program offers students three horticulture electives. This allows students to choose their own areas of specialization within the program.

Typical Employment Opportunities

Floral Designer
Retail Florist
Flower Shop Manager
Sales Manager
Interior Landscape Designer
Commercial Grower
Interior Horticultural Service Technician
Wholesale Distributor
Garden Center Salesperson/Manager
Arboretum Technician
Nursery Salesperson/Manager
Wholesale Nursery Manager
Municipal & Urban Forestry Manager
Commercial or Utility Arborist
Landscape Garden Maintenance
Public Garden Employment

General Horticulture (AAS) Program Outcomes:

- Graduates will receive a strong foundation in science and master skillsets utilizing traditional and cutting edge techniques.
- Graduates will demonstrate diverse knowledge and skills required to perform professionally in today’s complex multi-disciplinary environment.
Graduates will exhibit the knowledge necessary to understand horticulture from an historical perspective, as well as current and future trends of industry.

Fall 2019 - Subject to Revision

<table>
<thead>
<tr>
<th>Liberal Arts and Sciences</th>
<th>(22-23 credits)</th>
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<tbody>
<tr>
<td>EGL 101 Composition I: College Writing</td>
<td>3</td>
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<tr>
<td>EGL 102 Composition II: Writing About Literature</td>
<td>3</td>
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<tr>
<td>BI0 192 Botany</td>
<td>4</td>
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<tr>
<td>BI0 198 Entomology OR</td>
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<tr>
<td>BIO 290 Entomology II</td>
<td>3-4</td>
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<tr>
<td>Natural Science/Mathematics</td>
<td>3-4</td>
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<tr>
<td>General Education Electives</td>
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<tr>
<td>Support Courses</td>
<td>(3 credits)</td>
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<tr>
<td>BUS Business Elective</td>
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OR

<table>
<thead>
<tr>
<th>Required/Horticulture</th>
<th>(37 credits)</th>
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<tbody>
<tr>
<td>HOR 103 Herbaceous Plants I</td>
<td>3</td>
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<tr>
<td>HOR 110 Horticulture I</td>
<td>3</td>
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<tr>
<td>HOR 111 Horticulture II Growth and Development of Cultivated Plants</td>
<td>3</td>
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<td>HOR 112 Soils: The Foundation of Life</td>
<td>3</td>
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<tr>
<td>HOR 127 Horticulture Seminar</td>
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<td>HOR 204 Herbaceous Plants II</td>
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<td>HOR 211 Woody Plants I</td>
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<td>HOR 212 Woody Plants II</td>
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<td>HOR 218 Indoor Plants</td>
<td>3</td>
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<tr>
<td>HOR 238 Turfgrass Culture</td>
<td>3</td>
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<tr>
<td>HOR Horticulture Electives (in non-required HOR)</td>
<td>9</td>
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</tbody>
</table>

Total Credits: **62-64**

Degree Type: AAS
Total Required Credits: 62-64
Course Descriptions

EGL 101 Composition I: College Writing
This is the first part of a required sequence in college essay writing. Students learn to view writing as a process that involves generating ideas, formulating and developing a thesis, structuring paragraphs and essays, as well as revising and editing drafts. The focus is on the development of critical and analytical thinking. Students also learn the correct and ethical use of print and electronic sources. At least one research paper is required. A grade of C or higher is a graduation requirement. Note: Students passing a departmental diagnostic exam given on the first day of class will remain in EGL 101; all others will be placed in EGL 097. Prerequisite is any of the following: successful completion of EGL 097; an SAT essay score (taken prior to March 1, 2016) of 7 or higher; an SAT essay score (taken after March 1, 2016) of 5 or higher; on-campus placement testing. Credits: 3

EGL 102 Composition II: Writing About Literature
This is the second part of the required introductory English composition sequence. This course builds on writing skills developed in EGL 101, specifically the ability to write analytical and persuasive essays and to use research materials correctly and effectively. Students read selections from different literary genres (poetry, drama, and narrative fiction). Selections from the literature provide the basis for analytical and critical essays that explore the ways writers use works of the imagination to explore human experience. Grade of C or higher is a graduation requirement. Prerequisite(s): EGL 101 Credits: 3

BIO 290 Entomology II
Methods of greenhouse pest and disease control, including identification of major families of pests, diagnosis of diseases, principles of cultural and chemical control, and a survey of pests and diseases associated with economically important greenhouse crops. Note: The laboratory course, BIO 290L is a part of your grade for this course. Prerequisite(s): BIO 198 or 192 Corequisite(s): BIO 290L Credits: 3

BCS 102 Computer Concepts and Applications
This is an introductory course in the use of personal computers in today's society. Students will receive instruction in basic computer concepts and terminology, the fundamentals of the Windows operating system and have hands on experience at the beginning to intermediate level using Microsoft Word, Excel, and PowerPoint. The Internet will be used to supplement textbook and lecture materials. Computer Systems students cannot use BCS 102 to meet a BCS Elective requirement. Credits: 3

HOR 103 Herbaceous Plants I
Lecture and field study of the nomenclature, identification, ornamental attributes, cultural requirements and horticultural uses of annuals, summer display plants treated as annuals, spring and summer flowering bulbous plants used in gardens. Corequisite(s): HOR 103L (2,2) Credits: 3

HOR 110 Horticulture I
Instruction, orientation and field experience in the various phases of horticulture. Each week the explanation and demonstration of a new subject precedes the assignment to duties/ A rounded experience is the objective. Tools, techniques, and standards of workmanship are taught. Corequisite(s): HOR 110L Credits: 3

HOR 111 Horticulture II Growth and Development of Cultivated Plants
The performance of landscape plants is influenced by myriad internal and external factors that may limit growth and survival. By understanding the scientific basis for these variables informed professionals can customize growth conditions to promote optimal yield. This course surveys the physiological processes that mitigate plant growth, senescence, dormancy, flowering and propagation. Lab exercises offer an interactive opportunity to investigate phenomena such as dormancy and photoperiod
through experimentation, data collection and interpretation. The development of practical horticultural skills is also stressed. Prerequisite(s): HOR 110 Corequisite(s): HOR111L Credits: 3

**HOR 112 Soils: The Foundation of Life**
Soils serve as the foundation for production in natural ecosystems and human systems. This exploration of soils addresses their geologic formation and properties (physical, chemical and biological). Special attention is given to the focused manipulation of soils to achieve optimum plant performance in landscape situations. Through classroom lecture and investigative laboratory exercises students will develop an appreciation for soil as a dynamic living system with broad implications for agriculture and general society. Corequisite(s): HOR 112L Credits: 3

**HOR 127 Horticulture Seminar**
This course provides an overview of the industry, and major areas of development; it will provide an opportunity for students to hear from representatives of the industry. Students will be provided with the basis for an assessment of future career opportunities as well as the opportunity to evaluate their individual needs for continuing education. Credits: 1

**HOR 204 Herbaceous Plants II**
Lecture and field study of the nomenclature, identification, ornamental attributes, cultural requirements and horticultural uses of hardy perennial plants used in gardens including ferns, ornamental grasses, wild flowers, and herbs. Naturalistic woodland and rock gardens are introduced as well as the principles to design perennial borders. Corequisite(s): HOR 204L Credits: 3

**HOR 211 Woody Plants I**
The Woody Plants courses give a picture primarily of the woody plants grown in nurseries for landscape purposes, and secondly of those found in arboretums, woodlands, and fields of Northeastern United States. Emphasis is on identification, culture, uses, flowers, and fruits, and ecological relationships. Several of the evergreens, broad and narrow leaf, as well as some of the deciduous trees and shrubs will be covered in this first study. Corequisite(s): 211L Credits: 3

**HOR 212 Woody Plants II**
A continuation of Woody Plants I covering additional evergreens, broad and narrow leaf, as well as deciduous plants, trees, shrubs, vines and ground covers. Corequisite(s): 212L Credits: 3

**HOR 218 Indoor Plants**
A study of various plants that are suitable for indoor culture. Emphasis will be placed on identification, propagation, cultural requirements, ecological and aesthetic values. Corequisite(s): HOR 218L Credits: 3

**HOR 238 Turfgrass Culture**
A study of fine turfgrasses: soil, propagation, maintenance, growth requirements, and identification characteristics. Numerous materials, equipment, operations, usages, programs, and work procedures for proper and efficient management of specialized turfgrass areas, including golf courses and institutional and residential properties are studied. Prerequisite(s): HOR 112 Corequisite(s): HOR 238L Credits: 3

Admission to Farmingdale State College - State University of New York is based on the qualifications of the applicant without regard to age, sex, marital or military status, race, color, creed, religion, national origin, disability or sexual orientation.