

HORTICULTURE, A.A.S.

Major Code: 0610

Students choose between the following options: Horticulture Production, Landscape Management, or General Transfer. Horticulture is a diverse field and this program provides a wide range of training to prepare students for careers in various disciplines. Students have opportunities to participate in income-generating and community service projects. Some choose to enter the industry after two years. Others transfer to upper division horticulture and plant science programs at Cornell University, SUNY-ESF, and many others. Horticulture is one of the largest industries in the state and offers many professional options. The Horticulture Production option prepares students for practical, real-life situations in areas such as crop production, greenhouse operations, and integrated pest management. The Landscape Management option prepares students for careers in landscape design/build professions or transfer to related bachelor degree programs. The General Transfer option is a SUNY General Education and science-based course of study for transfer to related four-year programs.

Career Opportunities

Greenhouse operator/grower, floral designer, flower shop manager, wholesale florist, farm and garden store owner or manager, landscape/lawn technician, nursery operator/grower, maintenance supervisor of public grounds, public gardener, golf course superintendent, salesperson of horticultural products or greenhouse equipment, representative for wholesale growers and equipment suppliers, and more.

Student Learning Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate knowledge of green industry practices such as plant materials and their landscape uses, specialty crop production, plant physiology, plant protection, and pesticide use & handling;
- Demonstrate problem-solving skills in the fields of landscape management, specialty crop production systems and greenhouse management.

Curriculum Requirements

A minimum of 64 credits is required for degree completion.

Horticulture Production Option

Code	Title	Credits
AGRO 110	Soil Science (Natural Science GENED as advised)	3
BIOL 102	Botany-Form Function Seed Plt (Natural Science GENED)	3
BSAD 116	Business Organization & Mgmt	3
ENSC 106	Pesticide Use and Handling	2
ENSC 107	Integrated Pest Management	1
HORT 101	Plant Materials	3
HORT 108	Herbaceous Plant Materials	2
HORT 110	Horticulture Practices I (or as Advised)	2
HORT 150	Fruit & Vegetable Production	3
HORT 200	Greenhouse Management	3
HORT 201	Plant Propagation (Natural Science GENED)	3
HORT 202	Greenhouse Production	3
HORT 206	Sustainable Landscapes	3

HORT 210	Horticultural Practices II (or as Advised)	2
HORT 241	Plant Protection (Natural Science GENED)	3
Select one of the following:		3
AGSC 137	Agricultural Statistics	
SUNY General Education Mathematics as advised		
SUNY General Education Communication Written and Oral as advised		6
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
Additional SUNY General Education, General Electives, and/or Prerequisites as advised		13
Students will consult with their academic advisor to select courses		

Total Credits **64**

Landscape Management Option

Provides students with the foundational knowledge, hands-on skills, and experience that enable them to successfully pursue a career in the landscape industry.

Code	Title	Credits
BIOL 102	Botany-Form Function Seed Plt	3
BSAD 116	Business Organization & Mgmt	3
ENSC 106	Pesticide Use and Handling (or as Advised)	2
HORT 101	Plant Materials	3
HORT 103	Landscape Planning & Design I	3
HORT 105	Landscape Planning & Design II	3
HORT 206	Sustainable Landscapes	3
ENSC 107	Integrated Pest Management	1
HORT 108	Herbaceous Plant Materials	2
HORT 109	Landscape & Turf Management	3
Select one of the following:		2
HORT 110	Horticulture Practices I	
HORT 210	Horticultural Practices II	
HORT 201	Plant Propagation	3
HORT 240	Landcadd	3
HORT 241	Plant Protection	3
NATR 160	Principles of Arboriculture	2
NATR 161	Practices of Arboriculture	1
Select one of the following:		3
AGSC 137	Agricultural Statistics	
SUNY General Education Mathematics as advised		
SUNY General Education Communication Written and Oral as advised		6
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
Additional SUNY General Education, General Electives, and/or Prerequisites as advised		12
Students will consult with their academic advisor to select courses		
Total Credits		64

General Transfer Option

Code	Title	Credits
BIOL 102	Botany-Form Function Seed Plt	3
CHEM 121	General College Chemistry I	4

CHEM 122	General College Chemistry II	4
ENSC 107	Integrated Pest Management	1
HORT 101	Plant Materials	3
HORT 110	Horticulture Practices I (or as advised)	2
HORT 210	Horticultural Practices II (or as advised)	2
HORT 241	Plant Protection	3
Select one of the following:		3
AGSC 137	Agricultural Statistics	
SUNY General Education Mathematics as advised		
SUNY General Education Communication Written and Oral as advised		6
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
Additional SUNY General Education, General Electives, and/or Prerequisites as advised		30
Students will consult with their academic advisor to select courses		
Total Credits		64

Suggested Course Sequence

Horticulture Production Option

Courses taken "as Advised" will need to have a course substitution submitted prior to enrolling.

Course	Title	Credits
Year 1		
Fall		
HORT 101	Plant Materials	3
BIOL 102	Botany-Form Function Seed Plt	3
HORT 110	Horticulture Practices I (or as Advised)	2
AGRO 110	Soil Science	3
SUNY General Education Communication Written as advised		3
Credits		14
Spring		
HORT 108	Herbaceous Plant Materials	2
HORT 210	Horticultural Practices II (or as Advised)	2
Select one of the following:		3
AGSC 137	Agricultural Statistics	
SUNY General Education Mathematics as advised		
SUNY General Education Communication Oral as advised		3
SUNY General Education, General Elective, and/or Prerequisite as advised		
HORT 150	Fruit & Vegetable Production	3
Credits		13
Year 2		
Fall		
HORT 200	Greenhouse Management	3
HORT 201	Plant Propagation	3
ENSC 107	Integrated Pest Management	1
SUNY General Education, General Electives, and/or Prerequisites as advised		6
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
Credits		16
Spring		
HORT 202	Greenhouse Production	3
BSAD 116	Business Organization & Mgmnt	3
ENSC 106	Pesticide Use and Handling	2
HORT 241	Plant Protection	3
HORT 206	Sustainable Landscapes	3

SUNY General Education, General Elective, and/or Prerequisite as advised	3
Credits	17
Total Credits	60

Landscape Management

Courses taken "as Advised" will need to have a course substitution submitted prior to enrolling.

Course	Title	Credits
Year 1		
Fall		
HORT 101	Plant Materials	3
HORT 109	Landscape & Turf Management	3
HORT 110	Horticulture Practices I (or as Advised)	2
BIOL 102	Botany-Form Function Seed Plt	3
SUNY General Education Communication Written as advised		3
Credits		14
Spring		
HORT 103	Landscape Planning & Design I	3
HORT 108	Herbaceous Plant Materials	2
Select one of the following:		3
AGSC 137	Agricultural Statistics	
SUNY General Education Mathematics as advised		
SUNY General Education Communication Oral as advised		3
SUNY General Education, General Electives, and/or Prerequisites as advised		6
Credits		17
Year 2		
Fall		
HORT 105	Landscape Planning & Design II	3
HORT 201	Plant Propagation	3
ENSC 107	Integrated Pest Management	1
NATR 160	Principles of Arboriculture	2
NATR 161	Practices of Arboriculture	1
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
SUNY General Education, General Elective, and/or Prerequisite as advised		3
Credits		16
Spring		
HORT 240	Landcadd	3
HORT 241	Plant Protection	3
HORT 206	Sustainable Landscapes	3
ENSC 106	Pesticide Use and Handling	2
BSAD 116	Business Organization & Mgmnt	3
SUNY General Education, General Elective, and/or Prerequisite as advised		3
Credits		17
Total Credits		64

General Transfer Option

Courses taken "as Advised" will need to have a course substitution submitted prior to enrolling.

Course	Title	Credits
Year 1		
Fall		
HORT 101	Plant Materials	3
BIOL 102	Botany-Form Function Seed Plt	3
HORT 110	Horticulture Practices I (or as Advised)	2
SUNY General Education Communication Written as advised		3
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
Credits		14
Spring		
HORT 210	Horticultural Practices II (or as Advised)	2
SUNY General Education Communication Oral as advised		3

SUNY General Education, General Electives, and/or Prerequisites as advised	9
Select one of the following:	3
AGSC 137 Agricultural Statistics	
SUNY General Education Mathematics as advised	
Credits	17
Year 2	
Fall	
ENSC 107 Integrated Pest Management	1
CHEM 121 General College Chemistry I (Lecture and Lab)	4
SUNY General Education, General Electives, and/or Prerequisites as advised	12
Credits	17
Spring	
HORT 241 Plant Protection	3
CHEM 122 General College Chemistry II (Lecture and Lab)	4
SUNY General Education, General Electives, and/or Prerequisites as advised	9
Credits	16
Total Credits	64