# **ENVIRONMENTAL HORTICULTURE MAJOR**

## **Program Curriculum**

Code		redits
Plant Science Deg	gree Core Requirements	
ALS 1234	CALS First Year Seminar	1
or SPES 1004	First Year Seminar	
ALCE 3634	Communicating Ag and Life Sciences in Speaking	<b>j</b> 3
or ALCE 3624	Communicating Ag and Life Sciences in Writing	
BIOL 1105	Principles of Biology	3
BIOL 1106	Principles of Biology	3
ENSC 1015	Foundations of Environmental Science	3
or ENSC 1016	Foundations of Environmental Science	
HORT/BIOL 2304	Plant Biology	3
PPWS 2104	Plants, Genes, and People	3
PPWS 4104	Plant Pathology	4
Subtotal		23
Environmental Ho	orticulture Major Requirements	
HORT 2224	Horticulture Science and Industry	2
HORT 2234	Environmental Factors in Horticulture	3
HORT 2244	Plant Propagation	3
HORT 4334	Greenhouse and Controlled Environment	3
	Agriculture Management	
HORT 3324	Herbaceous Landscape Plants	3
HORT 3325	Woody Landscape Plants	3
or HORT 3326	Woody Landscape Plants	
ENSC 3134	Soils in the Landscape	3
ENT 4254	Insect Pest Management	3
Subtotal	_	23
Professional Deve	elopment Requirements	
SPES 2014	Professional Development Skills	1
SPES 3900	Bridge Experience	0
SPES 4014	Career Development and Planning	1
Subtotal	·	2
<b>Business Require</b>	ments	
AAEC 2434	Foundations of Agribusiness	3
AAEC 3454	Small Business Management and	3
7.0.200.0.	Entrepreneurship	ŭ
HORT 4614	Ornamental Plant Production and Marketing	3
or HORT 4344	Production of Food Crops in Controlled Environm Agriculture	ent
Subtotal	3	9
Restricted Electiv	es	
Select 12 credits	of the following:	12
AAEC 3314	Environmental Law	
AAEC 3004	Agricultural Production and Consumption Economics	
AAEC 3604	Agricultural Law	
ALS 2204	Sustainable Food Systems	
ALS 3404	Ecological Agriculture: Theory and Practice	
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BIOL 2004 Genetics CHEM 1045 General Chemistry Laboratory CHEM 1046 General Chemistry Laboratory CHEM 2535 Organic Chemistry CHEM 2536 Organic Chemistry CHEM 2545 Organic Chemistry CHEM 2545 Organic Chemistry Laboratory CHEM 2546 Organic Chemistry Laboratory CSES 2224 Foundations of Precision Agriculture CSES 2244 Agronomic Crops CSES 2564 Turfgrass Management CSES 4344 Crop Physiology and Ecology CSES 4045 Soil Microbiology CSES 4214 Soil Fertility and Management ENT 2004 Insects and Human Society ENT 2254 Bees and Beekeeping ENT 2264 Bees and Beekeeping ENT 2264 Bees and Beekeeping Laboratory ENT/PPWS Pesticide Usage 4264 HORT 2144 Indoor Plants HORT 2134 Plants and Greenspaces in Urban Communities Plants and Greenspaces in Urban Communities Plants and Greenspaces in Urban Communities Plants Plants, Places, and Cultures in a Global Context HORT 2334 Sustainable Agriculture Practicum HORT 3114 Wines and Vines HORT 3354 Trees in the Built Environment HORT 3664 Hardscape Materials and Installation HORT 4504 Landscape Contracting HORT 4545 Small Scale and Residential Landscape Design HORT 4546 Small Scale and Residential Landscape Design HORT 4764 Vegetable Crops HORT 4774 Vegetable Seed Production HORT 4774 Vegetable Seed Production HORT 4774 Medicinal Plants and Herbs HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 4114 Topics: StudyAway- Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3326 Woody Landscape Plants or HORT 461 Ornamental Plant Production and Marketing Free Electives		
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HORT 2164 Floral Design HORT 2134 Plants and Greenspaces in Urban Communities HORT 2184 Plants, Places, and Cultures in a Global Context HORT 2834 Sustainable Agriculture Practicum HORT 3114 Wines and Vines HORT 3354 Trees in the Built Environment HORT 3664 Hardscape Materials and Installation HORT 4504 Landscape Contracting HORT 4545 Small Scale and Residential Landscape Design HORT 4546 Small Scale and Residential Landscape Design HORT 4546 Viticulture HORT 4764 Vegetable Crops HORT 4784 Vegetable Seed Production HORT 4794 Medicinal Plants and Herbs HORT 4205 Public Gardens Maintenance and Management HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 2144 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3326 Woody Landscape Plants or HORT 3326 Woody Landscape Plants Or HORT 461 Ornamental Plant Production and Marketing	4264	
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HORT 2184 Plants, Places, and Cultures in a Global Context HORT 2834 Sustainable Agriculture Practicum HORT 3114 Wines and Vines HORT 3354 Trees in the Built Environment HORT 3664 Hardscape Materials and Installation HORT 4504 Landscape Contracting HORT 4545 Small Scale and Residential Landscape Design HORT 4546 Small Scale and Residential Landscape Design HORT 4654 Viticulture HORT 4764 Vegetable Crops HORT 4784 Vegetable Seed Production HORT 4794 Medicinal Plants and Herbs HORT 4205 Public Gardens Maintenance and Management HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 2244 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3325 Woody Landscape Plants or HORT 3325 Woody Landscape Plants HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	HORT 2164	Floral Design
HORT 2834 Sustainable Agriculture Practicum HORT 3114 Wines and Vines HORT 3354 Trees in the Built Environment HORT 3664 Hardscape Materials and Installation HORT 4504 Landscape Contracting HORT 4545 Small Scale and Residential Landscape Design HORT 4546 Small Scale and Residential Landscape Design HORT 4654 Viticulture HORT 4764 Vegetable Crops HORT 4784 Vegetable Seed Production HORT 4794 Medicinal Plants and Herbs HORT 4205 Public Gardens Maintenance and Management HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 2244 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3325 Woody Landscape Plants or HORT 3325 Woody Landscape Plants Or HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	HORT 2134	Plants and Greenspaces in Urban Communities
HORT 3114 Wines and Vines HORT 3354 Trees in the Built Environment HORT 3664 Hardscape Materials and Installation HORT 4504 Landscape Contracting HORT 4545 Small Scale and Residential Landscape Design HORT 4546 Small Scale and Residential Landscape Design HORT 4654 Viticulture HORT 4764 Vegetable Crops HORT 4784 Vegetable Seed Production HORT 4794 Medicinal Plants and Herbs HORT 4205 Public Gardens Maintenance and Management HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 2244 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3325 Woody Landscape Plants or HORT 3326Woody Landscape Plants HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	HORT 2184	Plants, Places, and Cultures in a Global Context
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HORT 3664 Hardscape Materials and Installation HORT 4504 Landscape Contracting HORT 4545 Small Scale and Residential Landscape Design HORT 4546 Small Scale and Residential Landscape Design HORT 4654 Viticulture HORT 4764 Vegetable Crops HORT 4784 Vegetable Seed Production HORT 4794 Medicinal Plants and Herbs HORT 4205 Public Gardens Maintenance and Management HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 2244 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4974 Independent Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 332 Woody Landscape Plants or HORT 332 Woody Landscape Plants HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	HORT 3114	Wines and Vines
HORT 4504 Landscape Contracting HORT 4545 Small Scale and Residential Landscape Design HORT 4546 Small Scale and Residential Landscape Design HORT 4654 Viticulture HORT 4764 Vegetable Crops HORT 4784 Vegetable Seed Production HORT 4794 Medicinal Plants and Herbs HORT 4205 Public Gardens Maintenance and Management HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 2244 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4974 Independent Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3326 Woody Landscape Plants or HORT 3326 Woody Landscape Plants HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	HORT 3354	Trees in the Built Environment
HORT 4545 Small Scale and Residential Landscape Design HORT 4546 Small Scale and Residential Landscape Design HORT 4654 Viticulture HORT 4764 Vegetable Crops HORT 4784 Vegetable Seed Production HORT 4794 Medicinal Plants and Herbs HORT 4205 Public Gardens Maintenance and Management HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 2244 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4974 Independent Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3325 Woody Landscape Plants or HORT 3326Woody Landscape Plants HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	HORT 3664	Hardscape Materials and Installation
HORT 4546 Small Scale and Residential Landscape Design HORT 4654 Viticulture HORT 4764 Vegetable Crops HORT 4784 Vegetable Seed Production HORT 4794 Medicinal Plants and Herbs HORT 4205 Public Gardens Maintenance and Management HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 2244 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4974 Independent Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3325 Woody Landscape Plants or HORT 3326Woody Landscape Plants HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	HORT 4504	Landscape Contracting
HORT 4654 Viticulture HORT 4764 Vegetable Crops HORT 4784 Vegetable Seed Production HORT 4794 Medicinal Plants and Herbs HORT 4205 Public Gardens Maintenance and Management HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 2244 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4974 Independent Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3325 Woody Landscape Plants or HORT 3326Woody Landscape Plants HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	HORT 4545	Small Scale and Residential Landscape Design
HORT 4764 Vegetable Crops HORT 4784 Vegetable Seed Production HORT 4794 Medicinal Plants and Herbs HORT 4205 Public Gardens Maintenance and Management HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 2244 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4974 Independent Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3325 Woody Landscape Plants or HORT 3326Woody Landscape Plants HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	HORT 4546	Small Scale and Residential Landscape Design
HORT 4784 Vegetable Seed Production HORT 4794 Medicinal Plants and Herbs HORT 4205 Public Gardens Maintenance and Management HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 2244 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4974 Independent Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3325 Woody Landscape Plants or HORT 3344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing		Viticulture
HORT 4794 Medicinal Plants and Herbs HORT 4205 Public Gardens Maintenance and Management HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 2244 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4974 Independent Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3325 Woody Landscape Plants or HORT 3344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	HORT 4764	Vegetable Crops
HORT 4205 Public Gardens Maintenance and Management HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 2244 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4974 Independent Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3325 Woody Landscape Plants or HORT 3344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	HORT 4784	5
HORT 4206 Public Gardens Maintenance and Management SPES 2004 Cannabis - Science, Industry, and Culture SPES 2244 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4974 Independent Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3325 Woody Landscape Plants or HORT 3326Woody Landscape Plants HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing		
SPES 2004 Cannabis - Science, Industry, and Culture SPES 2244 World Crops: Food and Culture SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture Up to 3 credit hours can be selected from the following courses: SPES 3954 Study Abroad (1-3) SPES 4964 Field Study (1-3) SPES 4974 Independent Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement. HORT 3325 Woody Landscape Plants or HORT 3326Woody Landscape Plants HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	HORT 4205	
SPES 2244 World Crops: Food and Culture  SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture  Up to 3 credit hours can be selected from the following courses:  SPES 3954 Study Abroad (1-3)  SPES 4964 Field Study (1-3)  SPES 4974 Independent Study (1-3)  SPES 4994 Undergraduate Research (1-3)  These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement.  HORT 3325 Woody Landscape Plants  or HORT 3326Woody Landscape Plants  HORT 4344 Production of Food Crops in Controlled Environment Agriculture  or HORT 461 Ornamental Plant Production and Marketing		-
SPES 4114 Topics: StudyAway: Production, Culture and Social Aspects US Agriculture  Up to 3 credit hours can be selected from the following courses:  SPES 3954 Study Abroad (1-3)  SPES 4964 Field Study (1-3)  SPES 4974 Independent Study (1-3)  SPES 4994 Undergraduate Research (1-3)  These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement.  HORT 3325 Woody Landscape Plants  or HORT 3326Woody Landscape Plants  HORT 4344 Production of Food Crops in Controlled Environment Agriculture  or HORT 461 Ornamental Plant Production and Marketing		•
Aspects US Agriculture  Up to 3 credit hours can be selected from the following courses:  SPES 3954 Study Abroad (1-3)  SPES 4964 Field Study (1-3)  SPES 4974 Independent Study (1-3)  SPES 4994 Undergraduate Research (1-3)  These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement.  HORT 3325 Woody Landscape Plants  or HORT 3326Woody Landscape Plants  HORT 4344 Production of Food Crops in Controlled Environment Agriculture  or HORT 461 Ornamental Plant Production and Marketing		·
SPES 3954 Study Abroad (1-3)  SPES 4964 Field Study (1-3)  SPES 4974 Independent Study (1-3)  SPES 4994 Undergraduate Research (1-3)  These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement.  HORT 3325 Woody Landscape Plants  or HORT 3326Woody Landscape Plants  HORT 4344 Production of Food Crops in Controlled Environment Agriculture  or HORT 461 Ornamental Plant Production and Marketing	SPES 4114	
SPES 4964 Field Study (1-3)  SPES 4974 Independent Study (1-3)  SPES 4994 Undergraduate Research (1-3)  These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement.  HORT 3325 Woody Landscape Plants  or HORT 3326Woody Landscape Plants  HORT 4344 Production of Food Crops in Controlled Environment Agriculture  or HORT 461 Ornamental Plant Production and Marketing	Up to 3 credit hou	rs can be selected from the following courses:
SPES 4974 Independent Study (1-3) SPES 4994 Undergraduate Research (1-3) These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement.  HORT 3325 Woody Landscape Plants or HORT 3326Woody Landscape Plants HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	SPES 3954	Study Abroad (1-3)
SPES 4994 Undergraduate Research (1-3)  These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement.  HORT 3325 Woody Landscape Plants  or HORT 3326Woody Landscape Plants  HORT 4344 Production of Food Crops in Controlled Environment Agriculture  or HORT 461 Ornamental Plant Production and Marketing	SPES 4964	Field Study (1-3)
These courses can count as a Restrictive Elective if NOT taken for Major Requirement or Business Requirement.  HORT 3325 Woody Landscape Plants or HORT 3326Woody Landscape Plants HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	SPES 4974	Independent Study (1-3)
Major Requirement or Business Requirement.  HORT 3325 Woody Landscape Plants or HORT 3326Woody Landscape Plants  HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	SPES 4994	Undergraduate Research (1-3)
HORT 3325 Woody Landscape Plants or HORT 3326Woody Landscape Plants HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing		
or HORT 3326Woody Landscape Plants  HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing		
HORT 4344 Production of Food Crops in Controlled Environment Agriculture or HORT 461 Ornamental Plant Production and Marketing	or HORT 332	•
or HORT 461 Ornamental Plant Production and Marketing		Production of Food Crops in Controlled
Free Electives	or HORT 46	-
	Free Electives	

Select credits to reach 120 Total Credit Hours

Subtotal		18
Pathways to Gene	eral Education	
Pathways Concept	1 - Discourse	
ENGL 1105	First-Year Writing (1F)	3
ENGL 1106	First-Year Writing (1F)	3
	ts in Pathway 1a (https://catalog.vt.edu/course- hways=attrs_pathways_G01A)	3
Pathways Concept	2 - Critical Thinking in the Humanities	
	in Pathway 2 (https://catalog.vt.edu/course- hways=attrs_pathways_G02)	6
Pathways Concept	3 - Reasoning in the Social Sciences	
AAEC 1005	Economics of the Food and Fiber System	3
or ECON 2005	Principles of Economics	
	ts in Pathway 3 (https://catalog.vt.edu/course- hways=attrs_pathways_G03)	3
Pathways Concept	4 - Reasoning in the Natural Sciences	
CHEM 1035	General Chemistry	3
CHEM 1036	General Chemistry	3
Pathways Concept	5 - Quantitative and Computational Thinking	
MATH 1014	Precalculus with Transcendental Functions (5F)	3
or MATH 1025	Elementary Calculus	
	ts in Pathway 5f (https://catalog.vt.edu/course- hways=attrs_pathways_G05F)	3
	ts in Pathway 5a (https://catalog.vt.edu/course- hways=attrs_pathways_G05A)	3
Pathways Concept	6 - Critique and Practice in Design and the Arts	
	ts in Pathway 6d (https://catalog.vt.edu/course- hways=attrs_pathways_G06D)	3
	ts in Pathway 6a (https://catalog.vt.edu/course- hways=attrs_pathways_G06A)	3
Pathways Concept United States	7 - Critical Analysis of Identity and Equity in the	
search/?attrs_pat	ts in Pathway 7 (https://catalog.vt.edu/course- hways=attrs_pathways_G07) (may be double- ther Pathways concept)	3
Subtotal		45
Total Credits		120

#### **Satisfactory Progress**

Upon having attempted 60 credits (including transfer, advanced placement, advanced standing and credit by examination), "satisfactory progress" toward a BS PLSC degree will include passing the following:

- · At least 24 credits that apply to the Pathways to General Education
- MATH 1014 Precalculus with Transcendental Functions, CHEM 1035 General Chemistry and CHEM 1036 General Chemistry,
- HORT 2224 Horticulture Science and Industry or HORT 2234 Environmental Factors in Horticulture or HORT 2244 Plant Propagation
- · 6 additional HORT courses
- 6 credits from ENSC 3134 Soils in the Landscape, ENT 4254 Insect Pest Management, PPWS 4104 Plant Pathology

#### **Graduation Requirements**

- · GPA Requirements
  - Total Credit Hours Required: Minimum of 120
    - Overall GPA: 2.0 (each semester in order to be in good academic standing)
    - In-major GPA: 2.0 (by the time the student graduates)
       Includes classes in: CSES, HORT, and PPWS
    - Prerequisites: Some courses listed may have pre/corequisites; please consult the University Catalog or check with your advisor.

#### **Acceptable Substitutions**

 SPES 1004 First Year Seminar: Any University approved First Year Experience (FYE) Course

### **Foreign Language Requirement**

A sequence of two foreign language courses (Classical or ASL) is required unless two years of the same high school foreign language or 6 transfer credits of the same foreign language are completed. These credits **do not** count toward graduation requirements.

First Year		
Fall Semester		Credits
BIOL 1105	Principles of Biology	3
ENGL 1105	First-Year Writing	3
ENSC 1015 or ENSC 1016	Foundations of Environmental Science or Foundations of Environmental Science	3
HORT 2224	Horticulture Science and Industry	2
MATH 1014 or MATH 1025	Precalculus with Transcendental Functions or Elementary Calculus	3
SPES 1004	First Year Seminar	1
or ALS 1234	or CALS First Year Seminar	
	Credits	15
Spring Semester		
BIOL 1106	Principles of Biology	3
ENGL 1106	First-Year Writing	3
HORT 2244	Plant Propagation	3
HORT 2234	Environmental Factors in Horticulture	3
Pathways Concept 5 - Q	uantitative and Computational Thinking	3
SPES 2014	Professional Development Skills	1
	Credits	16
Second Year		
Fall Semester		
AAEC 1005	Economics of the Food and Fiber System	3
HORT 2304	Plant Biology	3
CHEM 1035	General Chemistry	3
Pathways Concept 1 - D	iscourse	3
Pathways Concept 5 - Q	uantitative and Computational Thinking	3
	Credits	15
Spring Semester		
AAEC 2434	Foundations of Agribusiness	3
CHEM 1036	General Chemistry	3
PPWS 2104	Plants, Genes, and People	3
Pathways Concept 2 - C	ritical Thinking in the Humanities	3
Pathways Concept 6 - C	ritique and Practice in Design and the Arts	3
	Credits	15

Credits 1

#### Third Year

E-11	Sama	

	Total Credits	120
	Credits	14
SPES 4014	Career Development and Planning	1
Free Electives		6
PPWS 4104	Plant Pathology	4
HORT 4614 or HORT 4344	Ornamental Plant Production and Marketing or Production of Food Crops in Controlled Environment Agriculture	3
Spring Semester		
, , ,	Credits	15
	ical Analysis of Identity and Equity in the United States	3
	soning in the Social Sciences	3
Restricted Electives		3
Restricted Electives	Management	3
Fall Semester HORT 4334	Greenhouse and Controlled Environment Agriculture	3
Fourth Year		
	Credits	15
SPES 3900	Bridge Experience	0
	ical Thinking in the Humanities	3
Restricted Electives		3
HORT 3326	Woody Landscape Plants	3
ENT 4224	Integrated Pest Management	3
Spring Semester ENSC 3134	Soils in the Landscape	3
- atimays concept 0 - citt	Credits	15
	ique and Practice in Design and the Arts	3
Restricted Electives	Herbaceous Landscape Plants	3
or ALCE 3634 HORT 3324	Communicating Ag and Life Sciences in Writing or Communicating Ag and Life Sciences in Speaking  Herbaceous Landscape Plants	3
AAEC 3454 ALCE 3624	Small Business Management and Entrepreneurship	3
Fall Semester		