PLANT SCIENCE (BS)

The Plant Science major, with concentrations in Environmental Horticulture, Soil Science, Sustainable Agriculture, and Turfgrass Science, focuses on the science and practices associated with sustainable plant production and/or use within managed systems. Courses emphasize practices and concepts related to reducing environmental impact during production and in managed land use systems.

Concentrations focus on the production of ornamental and edible crops in controlled environments, greenhouses, nurseries and on farms; management practices for built landscapes and surfaces used for recreational and sporting activities; and the selection and management of ornamental trees, shrubs, grasses, native species, and plants and soils that perform ecosystem services in recreational, urban, and suburban settings to meet functional and aesthetic requirements. The program emphasizes hands-on learning and developing and applying knowledge to solve contemporary problems in individual and team approaches. Students have the opportunity to gain real-world experience through internships.

Requirements

All students in this major must complete the following courses:

Course	Title	Credits
Core Courses		
BIOL 1108	Principles of Biology II	4
or BIOL 1110	Introduction to Botany	
CHEM 1122	Chemical Principles and Applications	4
or CHEM 1124Q	Fundamentals of General Chemistry I	
or CHEM 1127Q	General Chemistry I	
PLSC 1120	Introduction to Plant Science	4
PLSC 2120	Environmental Soil Science	3
PLSC 2125	Environmental Soils Lab	1
PLSC 2110W	Sustainable Plant Pest Management	1
	Communication	
or PLSC 2560W	Written Communications in Horticulture	
PLSC 4210	Plant Physiology: How Plants Work	3
Total Credits		20

The writing in the major requirement is satisfied by PLSC 2110W Sustainable Plant Pest Management Communication or PLSC 2560W Written Communications in Horticulture.

Plant Science General Concentration

This track is to be used when no concentration is declared and may also be used as a means of advancing to a graduate program without yet specializing to a concentration. Students in this concentration must complete the following courses:

C	Course	Title	Credits
S	Select one or a combination of the following:		
	PLSC 3990	Field Study Internship	
	PLSC 3996	Undergraduate Research in Plant Science	
	PLSC 3999	Independent Study	
Plants in ecology, environments, and landscapes			
Select two of the following:		6	

PLSC 1060E The Great American Lawn: History, Culture, and Sustainability PLSC 2100E Environmental Sustainability of Food Production in Developed Countries PLSC 2500E Principles and Concepts of Agroecology PLSC 3550 Urban Plant Systems Construction and Maintenance PLSC 3820 Ecology and Control of Weeds Applied plant production systems 6-8 Select two of the following: PLSC 1110 Fundamentals of Horticulture PLSC 1115 Turfgrass Management Lab PLSC 2130 Introduction to the Horticulture of Cannabis PLSC 2130 Introduction to the Horticulture of Cannabis PLSC 3440 Small Fruit Production PLSC 3540 Garden Center Management PLSC 3610 Organic and Sustainable Vegetable Production PLSC 3670 Greenhouse Technology and Operations PLSC 3675 Greenhouse Technology and Operations Laboratory Plant associated microbes and plant pests 3 Select one of the following: PLSC 3120E Fungi, Fire, and Flood: Soil Microbes in a Changing World PLSC 3830 Horticultural Entomology PLSC 3830 Horticultural Entomology PLSC 3840 Integrated Pest Management Plant materials Select one of the following: PLSC 2520 Floral Art PLSC 3410 Woody Plants: Common Trees, Shrubs and Vines PLSC 3410 Woody Plants: Common Trees, Shrubs and Vines PLSC 3540 Molecular Laboratory Technology PLSC 3230 Biotechnology - Science, Application, Impact, Perception PLSC 3245 Plant Breeding and Biotechnology PLSC 3250 Floral Art PLSC 3250 Modern and Traditional Plant Breeding Techniques PLSC 3245 Plant Breeding and Biotechnology PLSC 3250 Modern and Traditional Plant Breeding Techniques PLSC 3260 Plant Propagation		LAND 2210E	The Common (Shared) Landscape of the USA: Rights, Responsibilities and Values	
and Sustainability PLSC 2100E Environmental Sustainability of Food Production in Developed Countries PLSC 2500E Principles and Concepts of Agroecology PLSC 3550 Urban Plant Systems Construction and Maintenance PLSC 3820 Ecology and Control of Weeds Applied plant production systems 6-8 Select two of the following: PLSC 1110 Fundamentals of Horticulture PLSC 11115 Turfgrass Management Lab PLSC 2130 Introduction to the Horticulture of Cannabis PLSC 2130 Introduction to the Horticulture of Cannabis PLSC 3440 Small Fruit Production PLSC 3640 Garden Center Management PLSC 3610 Organic and Sustainable Vegetable Production PLSC 3670 Greenhouse Technology and Operations PLSC 3675 Greenhouse Technology and Operations PLSC 3675 Greenhouse Technology and Operations Laboratory Plant associated microbes and plant pests 3 Select one of the following: PLSC 3810 Fundamentals of Plant Pathology PLSC 3830 Horticultural Entomology PLSC 3840 Integrated Pest Management Plant materials 3 Select one of the following: PLSC 2430 Herbaceous Ornamental Plants PLSC 2430 Hordicultural Entomology PLSC 3840 Integrated Pest Management Plant materials 3 Select one of the following: PLSC 360 Indoor Plants and Interiorscaping Plant propagation and breeding 3 Select one of the following: PLSC 350 Indoor Plants and Interiorscaping Plant propagation and breeding 3 Select one of the following: PLSC 3230 Molecular Laboratory Technology PLSC 3230 Biotechnology - Science, Application, Impact, Perception PLSC 3245 Plant Breeding and Biotechnology PLSC 3255 Modern and Traditional Plant Breeding Techniques PLSC 3640 Plant Propagation		LAND 2230E	Biophilic Cities and Landscapes	
Production in Developed Countries PLSC 2500E Principles and Concepts of Agroecology PLSC 3550 Urban Plant Systems Construction and Maintenance PLSC 3820 Ecology and Control of Weeds Applied plant production systems 6-8 Select two of the following: PLSC 1110 Fundamentals of Horticulture PLSC 1115 Turfgrass Management Lab PLSC 2130 Introduction to the Horticulture of Cannabis PLSC 2210 Golf Course Management PLSC 3440 Small Fruit Production PLSC 3540 Garden Center Management PLSC 3610 Organic and Sustainable Vegetable Production PLSC 3660 Nursery Production PLSC 3670 Greenhouse Technology and Operations PLSC 3675 Greenhouse Technology and Operations Laboratory Plant associated microbes and plant pests 3 Select one of the following: PLSC 3810 Fundamentals of Plant Pathology PLSC 3830 Horticultural Entomology PLSC 3840 Integrated Pest Management Plant materials Select one of the following: PLSC 2430 Herbaceous Ornamental Plants PLSC 2520 Floral Art PLSC 3410 Woody Plants: Common Trees, Shrubs and Vines PLSC 3560 Indoor Plants and Interiorscaping Plant propagation and breeding PLSC 3210 Molecular Laboratory Technology PLSC 3220 Biotechnology - Science, Application, Impact, Perception PLSC 3245 Plant Breeding and Biotechnology PLSC 3255 Modern and Traditional Plant Breeding Techniques PLSC 3250 Plant Propagation		PLSC 1060E		
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Maintenance PLSC 3820 Ecology and Control of Weeds Applied plant production systems 6-8 Select two of the following: PLSC 1110 Fundamentals of Horticulture PLSC 1115 Turfgrass Management Lab PLSC 2130 Introduction to the Horticulture of Cannabis PLSC 2210 Golf Course Management PLSC 3440 Small Fruit Production PLSC 3540 Garden Center Management PLSC 3610 Organic and Sustainable Vegetable Production PLSC 3660 Nursery Production PLSC 3670 Greenhouse Technology and Operations PLSC 3675 Greenhouse Technology and Operations Laboratory Plant associated microbes and plant pests 3 Select one of the following: PLSC 3120E Fungi, Fire, and Flood: Soil Microbes in a Changing World PLSC 3830 Horticultural Entomology PLSC 3840 Integrated Pest Management Plant materials 3 Select one of the following: PLSC 2430 Herbaceous Ornamental Plants PLSC 2520 Floral Art PLSC 3560 Indoor Plants and Interiorscaping Plant propagation and breeding 3 Select one of the following: PLSC 3210 Molecular Laboratory Technology PLSC 3230 Biotechnology - Science, Application, Impact, Perception PLSC 3245 Plant Breeding and Biotechnology PLSC 3255 Modern and Traditional Plant Breeding Techniques PLSC 3640 Plant Propagation		PLSC 2500E	Principles and Concepts of Agroecology	
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PLSC 2520 Floral Art PLSC 3410 Woody Plants: Common Trees, Shrubs and Vines PLSC 3560 Indoor Plants and Interiorscaping Plant propagation and breeding 3 Select one of the following: PLSC 3210 Molecular Laboratory Technology PLSC 3230 Biotechnology - Science, Application, Impact, Perception PLSC 3245 Plant Breeding and Biotechnology PLSC 3255 Modern and Traditional Plant Breeding Techniques PLSC 3640 Plant Propagation	Se	elect one of the follo	wing:	
PLSC 3410 Woody Plants: Common Trees, Shrubs and Vines PLSC 3560 Indoor Plants and Interiorscaping Plant propagation and breeding 3 Select one of the following: PLSC 3210 Molecular Laboratory Technology PLSC 3230 Biotechnology - Science, Application, Impact, Perception PLSC 3245 Plant Breeding and Biotechnology PLSC 3255 Modern and Traditional Plant Breeding Techniques PLSC 3640 Plant Propagation		PLSC 2430	Herbaceous Ornamental Plants	
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Plant propagation and breeding Select one of the following: PLSC 3210 Molecular Laboratory Technology PLSC 3230 Biotechnology - Science, Application, Impact, Perception PLSC 3245 Plant Breeding and Biotechnology PLSC 3255 Modern and Traditional Plant Breeding Techniques PLSC 3640 Plant Propagation		PLSC 3410	•	
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PLSC 3255 Modern and Traditional Plant Breeding Techniques PLSC 3640 Plant Propagation		PLSC 3245	Plant Breeding and Biotechnology	
		PLSC 3255	_	
Total Credits 23-29		PLSC 3640	Plant Propagation	
	То	tal Credits		23-29

Environmental Horticulture Concentration

Students in this concentration must complete the following courses:

Course	Title	Credits
PLSC 3640	Plant Propagation	3
Select two of the foll	owing:	6
PLSC 3810	Fundamentals of Plant Pathology	
PLSC 3820	Ecology and Control of Weeds	
PLSC 3830	Horticultural Entomology	
Select two of the foll	owing:	6
PLSC 2430	Herbaceous Ornamental Plants	
PLSC 3410	Woody Plants: Common Trees, Shrubs and Vines	
PLSC 3560	Indoor Plants and Interiorscaping	
Select three of the fo	llowing:	9
PLSC 3440	Small Fruit Production	
PLSC 3540	Garden Center Management	
PLSC 3550	Urban Plant Systems Construction and Maintenance	
PLSC 3610	Organic and Sustainable Vegetable Production	
PLSC 3660	Nursery Production	
PLSC 3670	Greenhouse Technology and Operations	
PLSC 4650	Plant Tissue Culture	
Total Credits		24

Soil Science Concentration

Students in this concentration must complete the following courses:

Course	Title	Credits
PLSC 3120E	Fungi, Fire, and Flood: Soil Microbes in a Changing World	3
PLSC 3620	Soil Fertility	3
PLSC 3700	Soil Morphology	3
PLSC 3710	Soil Management, Soil Health, and Climate Change	3
Select one or a comb	ination of the following:	1-6
PLSC 3990	Field Study Internship	
PLSC 3996	Undergraduate Research in Plant Science	
PLSC 3999	Independent Study	
Select one of the follo	owing:	3
PLSC 3810	Fundamentals of Plant Pathology	
PLSC 3820	Ecology and Control of Weeds	
PLSC 3830	Horticultural Entomology	
PLSC 3840	Integrated Pest Management	
Three of the following:		9
PLSC 1100	Turfgrass Management	
PLSC 2100E	Environmental Sustainability of Food Production in Developed Countries	
PLSC 2500E	Principles and Concepts of Agroecology	
PLSC 3440	Small Fruit Production	
PLSC 3550	Urban Plant Systems Construction and Maintenance	
PLSC 3610	Organic and Sustainable Vegetable Production	
PLSC 3660	Nursery Production	

PLSC 3670	Greenhouse Technology and Operations	
Total Credits		25-30

Sustainable Agriculture Concentration

Students in this concentration must complete the following courses:

Course	Title	Credits
PLSC 2100E	Environmental Sustainability of Food Production in Developed Countries	3
PLSC 2500E	Principles and Concepts of Agroecology	3
PLSC 3610	Organic and Sustainable Vegetable Production	4
PLSC 3620	Soil Fertility	3
PLSC 3840	Integrated Pest Management	3
PLSC 3990	Field Study Internship	1-6
Select two of the following:		6
PLSC 3810	Fundamentals of Plant Pathology	
PLSC 3820	Ecology and Control of Weeds	
PLSC 3830	Horticultural Entomology	
Total Credits		23-28

Turfgrass Science Concentration

Students in this concentration must complete the following courses:

Course	Title	Credits
PLSC 1100	Turfgrass Management	3
PLSC 1115	Turfgrass Management Lab	1
PLSC 3150	Advanced Turfgrass Management	3
PLSC 3620	Soil Fertility	3
PLSC 3990	Field Study Internship	1-6
Select three of the fol	lowing:	9
PLSC 3810	Fundamentals of Plant Pathology	
PLSC 3820	Ecology and Control of Weeds	
PLSC 3830	Horticultural Entomology	
PLSC 3840	Integrated Pest Management	
Select one of the following:		3
PLSC 2430	Herbaceous Ornamental Plants	
PLSC 3410	Woody Plants: Common Trees, Shrubs and Vines	
PLSC 3550	Urban Plant Systems Construction and Maintenance	
Total Credits		23-28

Students successfully completing these courses will have met their Common Curriculum requirements for information literacy.