

Horticultural Science (Certificate)

The Graduate Certificate is a non-degree, designed to increase personal knowledge and skills for current or future employment in the horticulture industry. Earning the Graduate Certificate requires completing a minimum of 15 credit hours (usually equaling 5 courses) of coursework. Courses may be taken either on-line or face-to-face.

More Information

Program Website

Distance Website

Participants must hold a bachelor's degree to enroll in this program. Graduate Certificate applicants should have majored in horticulture, crop science, plant science, or agricultural education with a concentration in plant science, or another closely related degree. Students may begin taking courses for the graduate certificate in Summer, Fall, or Spring. All graduate certificate course work must be completed within four years of enrollment.

Applicant Information

- **Delivery Method:** On-Campus, Online, Hybrid
- **Entrance Exam:** None
- **Interview Required:** None

Application Deadlines

- **Fall:** January 15
- **Spring:** August 1
- **Summer 1 and 2:** January 15

Plan Requirements

Code	Title	Hours
Required Courses		9
Select a minimum of three courses from the following:		
HS 502	Plant Disease: Methods & Diagnosis	
HS 516	Landscape Planting Design	
HS 520	Green Infrastructure	
HS 521	Temperate-Zone Tree Fruits: Physiology and Culture	
HS 523		
HS 532	Introduction to Permaculture *	
HS 533	Public Garden Administration	
HS/CS 541	Plant Breeding Methods *	
HS 550	Environmental Nursery Production *	
HS 551	Plant Nutrition *	
HS/FS 562	Postharvest Physiology *	
HS 576	Crop Physiology and Production in Controlled Environments	
HS 601	Professional Presentation Skills in Horticultural Science *	
HS 703	Breeding Asexually Propagated Crops	
HS 704	Plant Nomenclature	

HS 705	Physiology Of Flowering	
HS 707	Environmental Stress Physiology	
HS 717	Weed Management Systems	
HS 725	Pesticide Chemistry	
HS 727	Pesticide Behavior and Fate In the Environment	
HS 757	Quantitative Genetics Theory and Methods	
Additional Courses ¹		6
Additional Courses are determined in conjunction with the academic committee to meet the 15 total hours		
Total Hours		15

* Courses taught online

¹ Students must take courses that meet the following requirements: must be at 500-level or higher, letter-graded, passed with a B or better

² Students can select a maximum of 6 hours from the following subjects: ARE, AEE, BAE, CS, ENT, FS, PP, SCC; courses must be at 400-level or higher.