

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.

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.

Plan Requirements

Code	Title	Hours	Counts towards
Required Courses		9	
Select a minimum of three courses from the following:			
HS 502	Plant Disease: Methods & Diagnosis		
HS 516	Planting Design		
HS 520	Green Infrastructure		
HS 521	Temperate-Zone Tree Fruits: Physiology and Culture		
HS 523	Viticulture		
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.