MAJOR IN HORTICULTURE, HORTICULTURAL SCIENCE CONCENTRATION

Requirements
Effective Spring 2026

Freshman

		AUCC	Credits
BZ 120	Principles of Plant Biology (GT-SC1)	3A	4
CHEM 111	General Chemistry I (GT-SC2)	3A	4
CHEM 112	General Chemistry Lab I (GT-SC1)	3A	1
CHEM 113	General Chemistry II		3
CHEM 114	General Chemistry Lab II		1
CO 150	College Composition (GT-CO2)	1A	3
HORT 100	Horticultural Science	3A	4
HORT 192/LAND 192	Orientation to Horticulture/Landscape Arch		1
MATH 124[1]	Logarithmic and Exponential Functions (GT-MA1)	1B	1
MATH 125[1]	Numerical Trigonometry (GT-MA1)	1B	1
MATH 126	Analytic Trigonometry (GT-MA1)	1B	1
1C (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc)		1C	3
Social and Behavioral Sciences (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)		3C	3
	Total Credits		**30**

Sophomore

HORT 260	Plant Propagation		4
PH 121	General Physics I (GT-SC1)	3A	5
PH 122	General Physics II (GT-SC1)	3A	5
SPCM 200	Public Speaking		3
Select one course from the following:			3-4
BUS 150	Business Computing Concepts and Applications		
CS 110	Personal Computing		
Advanced Writing (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#advanced-writing)		2	3
Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		3B	3
Historical Perspectives (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		3D	3
	Total Credits		**29-30**

Junior

BZ 440	Plant Physiology		3
MATH 155	Calculus for Biological Scientists I (GT-MA1)	1B	4
SOCR 240	Introductory Soil Science		4
SOCR 330	Principles of Genetics		3
STAT 301	Introduction to Applied Statistical Methods		3
Select one group from the following:			5-8
Group A:			
CHEM 245	Fundamentals of Organic Chemistry		

CHEM 246	Fundamentals of Organic Chemistry Laboratory		
Group B:			
CHEM 341	Modern Organic Chemistry I		
CHEM 343	Modern Organic Chemistry II		
CHEM 344	Modern Organic Chemistry Laboratory		
HORT XXX[2]			5
Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		3B	3
Elective			0-3
	Total Credits		**33**
Senior			
AB 420	Horticultural Entomology		2
BC 351	Principles of Biochemistry		4
BSPM 361	Elements of Plant Pathology		3
HORT 310	Greenhouse Management	4B	4
HORT 454	Horticulture Crop Production and Management	4A,4C	2
HORT 476	Environmental Plant Stress Physiology		3
HORT 495	Independent Study		2
HORT XXX[2]			6
Elective[2]			1-2
	Total Credits		**27-28**
	Program Total Credits:		**120**

1 The equivalent to MATH 117 and MATH 118, if needed, may be taken using elective credits.

2 Students must select at least 12 credits of upper division (300- to 400-level) horticulture elective and/or free elective courses to bring the program total of upper division credits to a minimum of 42. Select enough elective credits to bring the program total to 120 credits.