

Horticultural Science Management (AAS): Small Scale Farming Concentration

The horticultural science management major is for students interested in growing, installing, and/or maintaining ornamentals, landscape plants and edibles. This program provides a foundation of science-based horticultural knowledge while emphasizing artistic and nutritional principles of plant use. Internships are required to reinforce classroom principles and vary based on the individual. The horticultural science management major offers concentrations in small-scale farming and ornamentals and landscape technology.

With this major, graduates can pursue careers in:

- Production Manager
- Horticulture Entrepreneur
- Landscape Foreman
- Pest Management Technician
- Small Farm Manager

To learn more about this major, including contact information, please visit our website (<https://cals.ncsu.edu/agricultural-institute/students/majors/#horticultural-science-management>).

Coordinator

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Plan Requirements

Code	Title	Hours	Counts towards
Orientation			
HS 101	Introduction to Ornamentals and Landscape Technology	1	
English			
WRT 111	Expository Writing ¹	3	
WRT 114	Professional Writing, Research and Reporting ¹	3	
Mathematics			
MAA 102	Mathematics in Agriculture and Related Sciences ¹	3	
MA 103	Topics in Contemporary Mathematics	3	

HSM Degree Requirements

ARE 201	Introduction to Agricultural & Resource Economics	3
ARE 115	Agribusiness Accounting	3
SOC 203A	Current Social Problems	3
or SOC 241A	Sociology of Agriculture and Rural Society	
GEP US Diversity, Equity, and Inclusion (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/)		3
AGI 191 & AGI 192	Professional Development and AGI External Learning Experience	2

Physical Education

GEP Health and Exercise Studies (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/)		1
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Concentration Electives

Select one of the following ANS/PO Electives:		3
ANS 103	Beef Production	
ANS 104	Swine Production and Management	
PO 150	Poultry Management	
Select one of the following BAE Electives:		3
BAE 123	Light Equipment Technology	
BAE 133	Agricultural Tractors and Machinery	
Select one of the following ENT Electives:		3
ENT 110	General Entomology	
ENT 121	Pesticides and Their Utilization	
Select one of the following HS Electives:		3
ENT 121	Pesticides and Their Utilization	
HS 131	Fruit & Vegetable Production	
Major Field of Study		
HS 115	Plant Growth and Development	3

SSC 112	Principles of Soil Science	4
HS 121	Plant Propagation	4
HS 144	Weeds & Diseases of Ornamentals	3
CS 152	Weed Control in Field Crops	3
HS 141	Greenhouse Crop Production	4
Free Electives		
Free Electives ²		6
Total Hours		67

¹ A grade of C- or higher is required.

² Students should consult their academic advisors to determine which courses fill this requirement.

Semester Sequence

This is a sample.

Freshman Year

Fall Semester		Hours
WRT 111	Expository Writing	3
MAA 102	Mathematics in Agriculture and Related Sciences	3
HS 101	Introduction to Ornamentals and Landscape Technology	1
HS 115	Plant Growth and Development	3
SOC 203A or SOC 241A	Current Social Problems or Sociology of Agriculture and Rural Society	3
SSC 112	Principles of Soil Science	4
	Hours	17

Spring Semester

WRT 114	Professional Writing, Research and Reporting	3
MA 103A	Topics in Contemporary Mathematics	3
HS 121	Plant Propagation	3
GEP Health and Exercise Studies (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/)		1
BAE Elective (p. 1)		3
HS Elective (p. 1)		3
	Hours	16

Sophomore Year

Fall Semester		Hours
ARE 201A	Introduction to Agricultural & Resource Economics	3
HS 144	Weeds & Diseases of Ornamentals	3
CS 152	Weed Control in Field Crops	3
ENT Elective (p. 1)		3
ANS/PO Elective (p. 1)		3
	Hours	15

Spring Semester

ARE 115	Agribusiness Accounting	3
GEP US Diversity, Equity, and Inclusion (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/)		3
HS 141	Greenhouse Crop Production	3
Free Electives		6
	Hours	15
	Total Hours	63

Career Opportunities

Career Titles

Learn More About Careers

NCcareers.org (<https://nccareers.org/>)

Explore North Carolina's central online resource for students, parents, educators, job seekers and career counselors looking for high quality job and career information.

Occupational Outlook Handbook (<https://www.bls.gov/ooh/>)

Browse the Occupational Outlook Handbook published by the Bureau of Labor Statistics to view state and area employment and wage statistics. You can also identify and compare similar occupations based on your interests.

Career One Stop Videos (<https://www.careeronestop.org/>)

View videos that provide career details and information on wages, employment trends, skills needed, and more for any occupation. Sponsored by the U.S. Department of Labor.

Focus 2 Career Assessment (<https://careers.dasa.ncsu.edu/explore-careers/career-assessments/>) (NC State student email address required)

This career, major and education planning system is available to current NC State students to learn about how your values, interests, competencies, and personality fit into the NC State majors and your future career. An NC State email address is required to create an account. Make an appointment with your career counselor (<https://careers.dasa.ncsu.edu/about/hours-appointments/>) to discuss the results.