

# Horticultural Science Management (AAS): Ornamentals and Landscape Technology 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 ornamentals and landscape technology and small-scale farming.

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

## Contact

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## Plan Requirements

Code	Title	Hours
<b>Orientation</b>		
HS 101	Introduction to Ornamentals and Landscape Technology	1
<b>English</b>		
WRT 111	Expository Writing <sup>1</sup>	3
WRT 114	Professional Writing, Research and Reporting	3
<b>Mathematics</b>		
MAA 102	Mathematics in Agriculture and Related Sciences <sup>1</sup>	3
MA 103	Topics in Contemporary Mathematics	3
<b>HSM Degree Requirements</b>		
ARE 115	Agribusiness Accounting	3
ARE 201A	Introduction to Agricultural & Resource Economics	3
SOC 203A	Current Social Problems	3
or SOC 241A	Sociology of Agriculture and Rural Society	
Humanities/VPA Elective		3
GEP Humanities ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/</a> )		
GEP Visual and Performing Arts ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-visual-performing-arts/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-visual-performing-arts/</a> )		
AGI 191 & AGI 192	Professional Development and AGI External Learning Experience	2
<b>Physical Education</b>		

GEP Health and Exercise Studies ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/</a> )	1
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### Major Field of Study

HS 111	Plant Identification	3
HS 115	Plant Growth and Development	3
HS 121	Plant Propagation	3
HS 144	Weeds & Diseases of Ornamentals	3
HS 162	Landscape Maintenance	3
SSC 112	Principles of Soil Science	4
BAE 123	Light Equipment Technology	3
ENT 163	Ornamental & Turf Insects	3

### HS Advised Courses

HS 141	Greenhouse Crop Production	3
or HS 151	Nursery Production	
HS 131	Fruit & Vegetable Production	3
or HS 171	Landscape Construction	

### Free Electives

Free Electives <sup>2</sup>	6
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<b>Total Hours</b>	<b>65</b>
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<sup>1</sup> A grade of C- or higher is required.

<sup>2</sup> Students should consult their academic advisors to determine which courses fill this requirement.

## Semester Sequence

This is a sample.

### First 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 111 Plant Identification	3
HS 115 Plant Growth and Development	3
SOC 203A Current Social Problems	3
<b>Hours</b>	<b>16</b>

### 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 ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/</a> )	1
HS Advised Courses (p. 1)	1
Free Elective	3
AGI 191 Professional Development	1
<b>Hours</b>	<b>15</b>

**Second Year****Fall Semester**

ARE 201A	Introduction to Agricultural & Resource Economics	3
HS 144	Weeds & Diseases of Ornamentals	3
HS 162	Landscape Maintenance	3
SSC 112	Principles of Soil Science	4
GEP HUM/VPA Elective		3
AGI 192	AGI External Learning Experience	1
<b>Hours</b>		<b>17</b>

**Spring Semester**

ARE 115	Agribusiness Accounting	3
BAE 123	Light Equipment Technology	3
ENT 163	Ornamental & Turf Insects	3
HS Advised Courses (p. 1)		3
Free Elective		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>63</b>

## Career Opportunities

### Career Titles

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

### 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.