**Crop and Soil Sciences (BS): Agronomy**

The Bachelor of Science in Crop and Soil Sciences degree with a concentration in Agronomy is a flexible program that allows students to choose from a wide range of courses, based on their personal interests and career goals. Students gain understanding of how plants grow, how the environment impacts crop productivity, and how management and marketing decisions affect profits. Graduates of this program will feed and clothe a growing global population.

**Contact Person**
Undergraduate Programs Office  
Crop & Soil Sciences Department  
2234 Williams Hall  
Campus Box 7620  
919-515-5820  
crops-soil-undergraduate-office@ncsu.edu

**Plan Requirements**

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<td>Introductory Biology: Ecology, Evolution, and Biodiversity</td>
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<td>Introduction to Whole Plant Physiology</td>
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<td>PY 131</td>
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<td>Land and Life</td>
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Crop Production Electives (select two): 6

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<td>CS 218</td>
<td>Southern Row Crop Production - Corn, Small Grains and Soybeans</td>
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Experiential Learning (select one): 3

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<td>CSSC 493</td>
<td>Research Experience in Crop and Soil Sciences</td>
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Restricted Electives (p. 2) 17

General Education Program (GEP) Courses

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<td>Academic Writing and Research</td>
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<td>GEP US Diversity, Equity, and Inclusion (<a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdivei/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdivei/</a>)</td>
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<td>GEP Global Knowledge (<a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-global-knowledge/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-global-knowledge/</a>) (verify requirement)</td>
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World Language Proficiency (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/world-language-proficiency/) (verify requirement)

Free Electives

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Total Hours 120

1 A grade of C- or higher is required.
2 Students should consult their academic advisors to determine which courses fill this requirement.

Restricted Electives

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<td>Survey of Financial and Managerial Accounting</td>
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<td>ARE 215</td>
<td>Small Business Accounting</td>
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<td>ARE 303</td>
<td>Farm Management</td>
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<td>ARE 304</td>
<td>Agribusiness Management</td>
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<td>ARE 306</td>
<td>Agricultural Law</td>
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<td>ARE 309</td>
<td>Environmental Law &amp; Economic Policy</td>
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<td>ARE 311</td>
<td>Agricultural Markets</td>
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<td>ARE 312</td>
<td>Agribusiness Marketing</td>
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<td>ARE 323</td>
<td>Agribusiness Finance</td>
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<td>ARE 332</td>
<td>Human Resource Management for Agribusiness</td>
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<td>Introduction to Resource and Environmental Economics</td>
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<td>BAE 325</td>
<td>Introductory Geomatics</td>
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<td>BAE 435/535</td>
<td>Precision Agriculture Technology</td>
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<td>Water Management</td>
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<td>CS 218</td>
<td>Southern Row Crop Production - Corn, Small Grains and Soybeans</td>
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<td>CS 224</td>
<td>Seeds, Biotechnology and Societies</td>
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<td>CS 230</td>
<td>Introduction to Agroecology</td>
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<td>CS 251</td>
<td>Production of Forage Crops</td>
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<td>CS 411</td>
<td>Crop Ecology</td>
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<td>CS 413</td>
<td>Plant Breeding</td>
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<td>CS 418/518</td>
<td>Introduction to Regulatory Science in Agriculture</td>
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<td>CS 424/524</td>
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<td>ENT 425</td>
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<td>FS 222</td>
<td>Discover: Conventional, Organic and Genetically Engineered Foods</td>
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<td>GIS 280</td>
<td>Introduction to GIS</td>
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<td>PP 315</td>
<td>Principles of Plant Pathology</td>
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<td>SSC 185</td>
<td>Land and Life</td>
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<td>SSC 332</td>
<td>Environmental Soil Microbiology</td>
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<td>SSC 440/540</td>
<td>Geographic Information Systems (GIS) in Soil Science and Agriculture</td>
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<td>Biological Approaches to Sustainable Soil Systems</td>
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<td>Soil Judging for Land Evaluation</td>
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<td>Soil and Environmental Biogeochemistry</td>
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<td>Soil Classification</td>
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<td>Soils, Environmental Quality and Global Challenges</td>
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<td>Soil Physical Properties and Plant Growth</td>
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<td>SSC 545</td>
<td>Remote Sensing Applications in Soil Science and Agriculture</td>
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**Semester Sequence**

This is a sample.

### First Year

#### Fall Semester

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<td>Seeds, Biotechnology and Societies</td>
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<td>Introduction to Agroecology</td>
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**Hours** 16

#### Spring Semester

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<td>COM 110</td>
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<td>Introductory Biology: Cellular and Molecular Biology or Plant Life</td>
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**Hours** 15

### Second Year

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**Hours** 15
Crop and Soil Sciences (BS): Agronomy

### GEP Humanities
- [GEP Humanities](http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/) - 3 Hours

### GEP Health and Exercise Studies
- [GEP Health and Exercise Studies](http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/) - 1 Hour

#### Spring Semester

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#### Hours
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### Third Year

#### Fall Semester

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<td>Soil Fertility and Nutrient Management</td>
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<td>Southern Row Crop Production - Corn, Small Grains and Soybeans</td>
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#### Hours
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#### Spring Semester

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<td>AEE 311</td>
<td>Communication Methods and Media</td>
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<td>Communication for Engineering and Technology</td>
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<td>Restricted Electives (p. 2)</td>
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#### Hours
16

### Fourth Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PY 131</td>
<td>Conceptual Physics</td>
<td>4</td>
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<tr>
<td>Experiential Learning (select one):</td>
<td></td>
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</tr>
<tr>
<td>CSSC 492</td>
<td>Professional Internship Experience in Crop and Soil Sciences</td>
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<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CSSC 493</td>
<td>Research Experience in Crop and Soil Sciences</td>
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<tr>
<td>Restricted Electives (p. 2)</td>
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<tr>
<td>GEP Social Sciences <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/">GEP Social Sciences</a></td>
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<td>Free Elective</td>
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#### Hours
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#### Spring Semester

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<tr>
<td>CS 415</td>
<td>Integrated Pest Management</td>
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<tr>
<td>SSC 462</td>
<td>Soil-Crop Management Systems (Spring only)</td>
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<td>GEP US Diversity, Equity, and Inclusion <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/">GEP US Diversity, Equity, and Inclusion</a></td>
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<td>Free Elective</td>
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#### Hours
12

#### Total Hours
120

### Career Opportunities

The breadth and depth of education and experiences you will gain from our department will set you on a path toward a rewarding career in one of the following specialties:

- Agronomist
- Agronomy Sales and Management
- Crop Advisor
- Crops Systems Specialist
- Extension Agent
- Nutrient Management/ Waste Management Specialist
- Precision Agriculture Specialist
- Research Station Manager
- Seed Production Agronomist

Learn more about future job prospects, representative salaries, and major employers for each of the above listed careers at [go.ncsu.edu/careers](http://go.ncsu.edu/careers/)

### Career Titles

- Food & Drug Inspector
- Landscape Architect
- Soil Conservation Technician
- Soil Conservationist
- Soil Engineer
- Soil Scientist
- Winemaker / Vinter

Learn More About Careers

NCcareers.org [https://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.


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.