Field Crops Technology (AAS)

A growing world population and decreased arable land make it extremely important to explore new ways to grow more crops on less land.

The program focuses on sound crop and soil management practices and the wise use of farm resources. Students learn efficient and effective production strategies for the major agronomic crops based on best practices and integrated pest management principles, agricultural business principles and environmentally sound soil management.

For more information about this major, including contact information, please visit our website (https://cals.ncsu.edu/agricultural-institute/students/majors/#field-crops-technology).

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Website

Plan Requirements

Code	Title	Hours
Orientation		
AGI 101	Introduction to the Agricultural Institute	1
English		
WRT 111	Expository Writing [1]	3
WRT 114	Professional Writing, Research and Reporting	3
Mathematics		
MAA 102	Mathematics in Agriculture and Related Sciences	3
MA 103	Topics in Contemporary Mathematics	3
General Requirements		
AGI 191	Professional Development	1
AGI 192	AGI External Learning Experience	3
ARE 201/201A	Introduction to Agricultural & Resource Economics	3
ARE 115	Agribusiness Accounting	3
Sociology		3
SOC 203/203A	Current Social Problems	
SOC 241/241A	Sociology of Agriculture and Rural Society	
Humanities/VPA Elective		3
GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)		
GEP Visual and Performing Arts (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-visual-performing-arts/)		
GEP Health and Exercise Studies (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/)		1
Major Requirements		
CS 111	Field Crop Production	4
CS 152	Weed Control in Field Crops	3
CS 116	Agronomic Crops - Cotton, Peanuts, and Tobacco	3
CS 118	Agronomic Crops - Corn, Small Grains and Soybeans	3
CS 196	Crop and Soil Management	3
SSC 112	Principles of Soil Science	4
SSC 151	Fertilizers and Soil Fertility	3
Electives		
ARE Elective		3
BAE Elective		3
ENT Elective		3
Free Electives [2,3]		2
Total Hours		**64**

1. A grade of C- or higher is required.
2. Courses graded "S" for Satisfactory are allowed.
3. Students should consult their academic advisors to determine which courses fill this requirement.

ARE Elective

Code	Title	Hours
ARE 104	Agricultural Business Management	3
ARE 106	Agri Business Law	3
ARE 112	Agricultural & Agribusiness Marketing	3
ARE 113	Principles of Salesmanship	3
ARE 121	Agricultural Finance	3
ARE 132	Management of Personnel	3
ARE 141	Personal Financial Management	3

BAE Elective

Code	Title	Hours
BAE 133	Agricultural Tractors and Machinery	4
BAET 135	Introduction to Precision Agriculture	3

ENT Elective

Code	Title	Hours
ENT 110	General Entomology	3
ENT 121	Pesticides and Their Utilization	3

Semester Sequence

This is a sample.

First Year		
Fall Semester		**Hours**
AGI 101	Introduction to the Agricultural Institute	1
CS 111	Field Crop Production	4
MAA 102	Mathematics in Agriculture and Related Sciences	3
SSC 112	Principles of Soil Science	4
WRT 111	Expository Writing	3
	Hours	**15**

Spring Semester		
AGI 191	Professional Development	1
CS 118	Agronomic Crops - Corn, Small Grains and Soybeans	3
MA 103A	Topics in Contemporary Mathematics	3
SSC 151	Fertilizers and Soil Fertility	3
WRT 114	Professional Writing, Research and Reporting	3
SOC 203A or SOC 241A	Current Social Problems or Sociology of Agriculture and Rural Society	3
	Hours	**16**
Second Year		
Fall Semester		
ARE 115	Agribusiness Accounting	3
CS 116	Agronomic Crops - Cotton, Peanuts, and Tobacco	3
CS 152	Weed Control in Field Crops	3
AGI 192	AGI External Learning Experience	3
ARE Elective		3
ENT Elective		3
	Hours	**18**
Spring Semester		
ARE 201A	Introduction to Agricultural & Resource Economics	3
CS 196	Crop and Soil Management	3
BAE Elective		3
GEP - US Diversity		3
GEP - Health and Exercise Science		1
Free Electives		2
	Hours	**15**
	Total Hours	**64**

[1] WRT 111 Expository Writing and WRT 114 Professional Writing, Research and Reporting must be completed with a C-minus or higher grade for transfer to an NC State baccalaureate program.

[2] MAA 102 Mathematics in Agriculture and Related Sciences must be completed with a C- minus or higher grade.

Career Opportunities

Career Titles

- Farm Management
- Machinery and Equipment Sales
- Agricultural Chemical Distribution

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.