

# Agricultural Education (BS): Agricultural Business Concentration

The Agricultural Education major within the Department of Agricultural and Human Sciences prepares graduates to teach agriculture, serve as FFA advisors, and supervise agricultural experiences (SAE) in public and private schools.

The Agricultural Business concentration is one of seven concentrations offered for the Bachelor of Science in Agricultural Education.

- New students interested in Agricultural Education may be eligible to apply for the North Carolina Teaching Fellows Program at NC State.
- Student teachers of agriculture may apply for Ed Scholars through NC State.
- Many alumni pursue careers in middle and high schools, universities and community colleges, county extension offices, and in the agricultural industry.

## Teacher Licensure

Completion of the B.S. program in Agricultural Education leads to teacher licensure in North Carolina for grades 6-12. Because of North Carolina's reciprocity agreements, graduates also can pursue certification in about 35+ states. Download the Teacher Licensure Checklist (<https://cals.ncsu.edu/agricultural-and-human-sciences/wp-content/uploads/sites/13/2017/06/Teacher-Licensure-Checklist.pdf>) to review the requirements for admissions to teacher education candidacy and help you stay on course.

For more information about this program, visit our website (<https://cals.ncsu.edu/agricultural-and-human-sciences/undergraduate/#agricultural-education-major>).

## Contact

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## Plan Requirements

Code	Title	Hours
<b>Orientation</b>		
AEE 103	Fundamentals of Agricultural and Extension Education	1
or ALS 103	First-year Success in Agriculture and Life Sciences	
or ALS 303	Transfer Success in Agriculture and Life Sciences	
<b>Communication</b>		
COM 110	Public Speaking	3
<b>Sciences</b>		

BIO 181	Introductory Biology: Ecology, Evolution, and Biodiversity	4
BIO 183	Introductory Biology: Cellular and Molecular Biology	4
CH 101 & CH 102	Chemistry - A Molecular Science and General Chemistry Laboratory	4

### Agricultural Education

AEE 101	Introduction to Career and Technical Education <sup>1</sup>	1
AEE 206	Introduction to Teaching Agriculture <sup>1</sup>	3
AEE 226	Computer Applications and Information Technology in Agricultural & Extension Ed <sup>1</sup>	3
AEE 303	Administration and Supervision of Student Organizations <sup>1</sup>	3
AEE 322	Experiential Learning in Agriculture <sup>1</sup>	3
AEE 326	Teaching Diverse Learners in AED <sup>1</sup>	3
AEE 327	Conducting Summer Programs in Agricultural Education	1
AEE 424	Planning Agricultural Educational Programs <sup>1</sup>	3
AEE 426	Methods of Teaching Agriculture <sup>1</sup>	3
AEE 427	Student Teaching in Agriculture <sup>1</sup>	8
AEE 491	Seminar in Agricultural Education	1

### Teaching Content Courses

BAET 201	Shop Processes and Management	3
or TDE 110	Materials & Processes Technology	
Plant Science Elective (p. 2)		3
ANS 150 & ANS 151	Introduction to Animal Science and Introduction to Animal Science Lab	4
SSC 200 & SSC 201	Soil Science and Soil Science Laboratory	4

### Professional Education

EDP 304	Educational Psychology <sup>1</sup>	3
ELP 344	School and Society <sup>1</sup>	3
ED 311	Classroom Assessment Principles and Practices <sup>1</sup>	2
ED 312	Classroom Assessment Principles and Practices Professional Learning Lab <sup>1</sup>	1

### Concentration Electives

ARE 215	Small Business Accounting	3
or BUS 225	Personal Finance	
ARE 303	Farm Management	3
or ARE 304	Agribusiness Management	
ARE 306	Agricultural Law	3
or ARE 309	Environmental Law & Economic Policy	
ARE 311	Agricultural Markets	3
or ARE 312	Agribusiness Marketing	
ARE 321	Agricultural Financial Management	3
or ARE 332	Human Resource Management for Agribusiness	

ARE, BUS or EC Elective (p. 4) 3

Select one of the following Economics electives: 3

ARE 201	Introduction to Agricultural & Resource Economics	
ARE 201A	Introduction to Agricultural & Resource Economics	
EC 201	Principles of Microeconomics	
EC 205	Fundamentals of Economics	

### GEP Courses

ENG 101	Academic Writing and Research <sup>1</sup>	4
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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> )	6
GEP Mathematical Sciences ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-mathematical-sciences/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-mathematical-sciences/</a> )	6
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> )	2
GEP US Diversity, Equity, and Inclusion ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/</a> )	3
GEP Interdisciplinary Perspectives ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/</a> )	5
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)	
World Language Proficiency ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/world-language-proficiency/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/world-language-proficiency/</a> ) (verify requirement)	
<b>Free Electives</b>	
Free Electives (12 Hr S/U Lmt) <sup>2</sup>	2
<b>Total Hours</b>	<b>120</b>

<sup>1</sup> A grade of C- or higher is required.

<sup>2</sup> Courses graded "S" for Satisfactory are allowed.

<sup>3</sup> Students should consult their academic advisors to determine which courses fill this requirement.

## Plant Science Electives

Code	Title	Hours
AEC 423	Introduction to Fisheries Sciences Laboratory	1
ANS 215	Agricultural Genetics	3
CS 200	Introduction to Turfgrass Management	4
CS 210	Lawns and Sports Turf	3
CS 211	Plant Genetics	3
CS 213	Crop Science	3
CS 214	Crop Science Laboratory	1
CS 216	Southern Row Crop Production - Cotton, Peanuts, and Tobacco	3
CS 218	Southern Row Crop Production - Corn, Small Grains and Soybeans	3
CS 224	Seeds, Biotechnology and Societies	3
CS 230	Introduction to Agroecology	3
CS 251	Production of Forage Crops	3
CS 400	Turf Cultural Systems	3
CS 410	Community Food Systems	3
CS 411		3
CS 413	Plant Breeding	2
CS 414	Weed Science	4
CS 415	Integrated Pest Management	3
CS 418	Introduction to Regulatory Science in Agriculture	3
CS 424	Seed Physiology	3
CS 430	Advanced Agroecology	4
CS 465	Turf Management Systems and Environmental Quality	3
CS 470	Advanced Turfgrass Pest Management	2

CS 480	Sustainable Food Production (capstone)	1
CS 502	Plant Disease: Methods & Diagnosis	2
CS 518	Introduction to Regulatory Science in Agriculture	3
CS 524	Seed Physiology	3
CS 541	Plant Breeding Methods	3
CS 565	Turf Management Systems and Environmental Quality	3
CS 590	Special Topics	1-6
CS 591		1-6
CSSC 492	Professional Internship Experience in Crop and Soil Sciences	1-3
ENT 402	Forest Entomology	3
ENT 470	Advanced Turfgrass Pest Management	2
FOR 150	Critical Thinking and Data Analysis	2
FOR 172	Forest System Mapping and Mensuration I	2
FOR 204	Silviculture	2
FOR 248	Forest History, Technology and Society	3
FOR 250	Professional Development II: Communications in Natural Resources	1
FOR 252	Introduction to Forest Science	3
FOR 260	Forest Ecology	4
FOR 261	Forest Communities	2
FOR 264	Forest Wildlife	1
FOR 265	Fire Management	1
FOR 273	Forest System Mapping and Mensuration II	3
FOR 293	Independent Study in Forest Management	1-6
FOR 294	Independent Study in Forest Management	1-6
FOR 295	Special Topics in Forestry	1-6
FOR 303	Silvics and Forest Tree Physiology	3
FOR 304	Theory of Silviculture	4
FOR 318	Forest Pathology	3
FOR 319	Forest Economics	3
FOR 330	North Carolina Forests	3
FOR 334	Operations Research Applications in Natural Resources	1
FOR 339		4
FOR 350	Professional Development III: Ethical Dilemmas in Natural Resource Management	1
FOR 353	GIS and Remote Sensing for Environmental Analysis and Assessment	3
FOR 374	Forest Measurement, Modeling, and Inventory	3
FOR 402	Forest Entomology	3
FOR 405	Forest Management	4
FOR 406	Forest Inventory, Analysis and Planning	4
FOR 408	Hardwood Management: Natural Forest Silviculture	3
FOR 411	Forest Genetics	3
FOR 414	World Forestry	3
FOR 415	World Forestry Study Tour	1
FOR 420	Watershed and Wetlands Hydrology	4
FOR 422	Consulting Forestry	3
FOR 430	Forest Health and Protection	3
FOR 434	Forest Operations and Analysis	3

FOR 472	Forest Soils	4
FOR 491	Special Topics in Forestry and Related Natural Resources	1-4
FOR 493	Independent Study in Forest Management	1-6
FOR 494	Independent Study in Forest Management	1-6
FOR 501	Dendrology	3
FOR 502	Forest Measurements	1
FOR 503	Silvics and Forest Tree Physiology	1
FOR 504	The Practice of Silviculture	3
FOR 505	Forest Management	4
FOR 506	Silviculture Laboratory	1
FOR 507	Silviculture Mini Course	1
FOR 508	Hardwood Management: Natural Forest Silviculture	3
FOR 509	Forest Resource Policy	1
FOR 510	Introduction to GPS	1
FOR 513	Silviculture for Intensively Managed Plantations	3
FOR 514	Woodland Stewardship	3
FOR 519	Forest Economics	3
FOR 520	Watershed and Wetlands Hydrology	4
FOR 522	Consulting Forestry	3
FOR 531	Wildland Fire Science	3
FOR 532	Wildland Firefighter	3
FOR 534	Forest Operations and Analysis	3
FOR 540	Advanced Dendrology	3
FOR 561	Forest Communities of the Southeastern Coastal Plain	1
FOR 562	Forest Communities of the Southern Appalachians	1
FOR 565	Plant Community Ecology	4
FOR 574		3
FOR 575	Advanced Terrestrial Ecosystem Ecology	3
FOR 583	Tropical Forestry	3
FOR 595	Special Topics	1-6
FS 462	Postharvest Physiology	3
FS 562	Postharvest Physiology	3
FW 221	Conservation of Natural Resources	3
FW 404	Wildlife Habitat Management	3
GIS 512	Introduction to Environmental Remote Sensing	3
HS 200	Home Horticulture	3
HS 201	The World of Horticulture: Principles and Practices	3
HS 202	Home Plant Identification	3
HS 203	Home Plant Propagation	3
HS 204	Home Landscape Maintenance	3
HS 205	Home Food Production	3
HS 215	Agricultural Genetics	3
HS 242	Landscape Design Introduction	3
HS 250	Home Landscape Design: Creating Garden Spaces	3
HS 252	Landscape Design Graphic Communication	2
HS 272	Landscape Design/Build	6
HS 280	Hands-On-Horticulture	3
HS 290	Horticulture: Careers and Opportunities	1
HS 301	Plant Propagation	4

HS 302	Gardening with Herbaceous Perennials	3
HS 303	Ornamental Plant Identification I	3
HS 304	Ornamental Plant Identification II	3
HS 357	Landscape Design Grading and Drainage	4
HS 400	Residential Landscaping	6
HS 410	Community Food Systems	3
HS 411	Nursery Management	3
HS 416	Landscape Planting Design	4
HS 418	Landscape Design Digital Media Graphics	3
HS 420	Green Infrastructure	3
HS 421	Temperate-Zone Tree Fruits: Physiology and Culture	3
HS 422	Small Fruit Production	3
HS 423		3
HS 428	Soil Management Principles for Sustainable Agriculture	1
HS 431	Vegetable Production	4
HS 432	Introduction to Permaculture	3
HS 433	Public Garden Administration	3
HS 440	Greenhouse Management	3
HS 442	Floriculture Crop Production	3
HS 451	Plant Nutrition	3
HS 462	Postharvest Physiology	3
HS 471	Landscape Ecosystem Management	4
HS 475		3
HS 476	Crop Physiology and Production in Controlled Environments	3
HS 491	Sustainable Agriculture Entrepreneurship Study Abroad	3
HS 492	Horticulture Internship	1-3
HS 493	Research Experience in Horticultural Science	1-3
HS 495	Experimental Courses in Horticultural Science	1-6
HS 502	Plant Disease: Methods & Diagnosis	2
HS 516	Landscape Planting Design	4
HS 520	Green Infrastructure	3
HS 521	Temperate-Zone Tree Fruits: Physiology and Culture	3
HS 523		3
HS 532	Introduction to Permaculture	3
HS 533	Public Garden Administration	3
HS 541	Plant Breeding Methods	3
HS 550	Environmental Nursery Production	3
HS 551	Plant Nutrition	3
HS 562	Postharvest Physiology	3
HS 576	Crop Physiology and Production in Controlled Environments	3
HS 590	Special Problems in Horticultural Science	1-6
NR 420	Watershed and Wetlands Hydrology	4
NR 460	Renewable Natural Resource Management and Policy	3
NR 491	Special Topics in Forestry and Related Natural Resources	1-4
NR 520	Watershed and Wetlands Hydrology	4

NR 560	Renewable Natural Resource Management and Policy	3
PP 318	Forest Pathology	3
PP 470	Advanced Turfgrass Pest Management	2
PP 502	Plant Disease: Methods & Diagnosis	2
SMT 202	Anatomy and Properties of Renewable Materials	3
SSC 428	Soil Management Principles for Sustainable Agriculture	1
SSC 440	Geographic Information Systems (GIS) in Soil Science and Agriculture	3
SSC 462	Soil-Crop Management Systems	3
SSC 540	Geographic Information Systems (GIS) in Soil Science and Agriculture	3

## ARE/BUS/EC Electives

Code	Title	Hours
ARE 215	Small Business Accounting	3
ARE 260	Marketing and Risk Management in the Pork Industry	1
ARE 270	Principles of Agribusiness Entrepreneurship	3
ARE 295	Special Topics in Agricultural & Resource Economics (200 Level)	1-6
ARE 301	Intermediate Microeconomics	3
ARE 303	Farm Management	3
ARE 304	Agribusiness Management	3
ARE 306	Agricultural Law	3
ARE 309	Environmental Law & Economic Policy	3
ARE 311	Agricultural Markets	3
ARE 312	Agribusiness Marketing	3
ARE 321	Agricultural Financial Management	3
ARE 323	Agribusiness Finance	3
ARE 332	Human Resource Management for Agribusiness	3
ARE 336	Introduction to Resource and Environmental Economics	3
ARE 345	Global Agribusiness Management	3
ARE 370	Agribusiness New Venture Development	3
ARE 395	Special Topics in Agricultural and Resource Economics (300 level)	1-6
ARE 404	Advanced Agribusiness Management	3
ARE 412	Advanced Agribusiness Marketing	3
ARE 413	Applied Agribusiness Marketing	3
ARE 415	Introduction to Commodity Futures Markets	3
ARE 420	Taxation in Agriculture, Production, and Agribusiness	3
ARE 425	Contracts and Organizations in Agriculture	3
ARE 433	U.S. Agricultural Policy	3
ARE 444	Ethics in Agribusiness	3
ARE 448	International Agricultural Trade	3
ARE 455	Agribusiness Analytics	3
ARE 470	Agribusiness Entrepreneurship Clinical Skills Development	3
ARE 475	Food Policy	3
ARE 490	Career Seminar in Agriculture & Resource Economics	1

ARE 492	External Learning Experience	1-6
ARE 493	Special Problems/Research Exploration	1-6
ARE 494	Agribusiness Study Abroad	1-6
ARE 495	Special Topics in Agricultural and Resource Economics	1-6
ARE 590	Special Topics in ARE	1-99
BUS 225	Personal Finance	3
BUS 295	Special Topics in Business Management	1-6
BUS 320	Financial Management	3
BUS 340	Information Systems Management	3
BUS 350	Economics and Business Statistics	3
BUS 351	Introduction to Business Analytics	3
BUS 360	Marketing Methods	3
BUS 370	Operations and Supply Chain Management	3
BUS 420	Financial Management of Corporations	3
BUS 422	Investments and Portfolio Management	3
BUS 425	Advanced Personal Financial Management	3
BUS 426	International Financial Management	3
BUS 428	Financial Analytics	3
BUS 429	Financial Modeling	3
BUS 440	Database Management	3
BUS 441	Business Data Communications and Networking	3
BUS 442	Information Systems Development	3
BUS 443	Web Development for Business Applications	3
BUS 444	Systems Analysis and Design	3
BUS 449	Information Technology Practicum	3
BUS 458	Analytics: From Data to Decisions	3
BUS 459	Business Analytics Practicum	3
BUS 460	Consumer Behavior	3
BUS 461	Channel and Retail Marketing	3
BUS 462	Marketing Research	3
BUS 464	International Marketing	3
BUS 465	Traditional and Digital Brand Promotion	3
BUS 466	Personal Selling	3
BUS 467	Product and Brand Management	3
BUS 468	Marketing Strategy	3
BUS 469	Digital Marketing Practicum	3
BUS 470	Operations Modeling and Analysis	3
BUS 472	Operations Planning and Control Systems	3
BUS 473	Supply Chain Strategy	3
BUS 474	Logistics Management	3
BUS 475	Purchasing and Supply Management	3
BUS 476	Decision Modeling and Analysis	3
BUS 479	Supply Chain Management Undergraduate Practicum	3
BUS 495	Special Topics in Business Management	1-6
BUS 498	Independent Study in Business Management	1-6
BUS 501	Strategic Management Foundations	3
BUS 554	Project Management	3
BUS 571	High Growth Entrepreneurship	3
BUS 590	Special Topics In Business Management	1-6
EC 202	Principles of Macroeconomics	3

EC 301	Intermediate Microeconomics	3
EC 302	Intermediate Macroeconomics	3
EC 305	A Closer Look at Capitalism	3
EC 336	Introduction to Resource and Environmental Economics	3
EC 348	Introduction to International Economics	3
EC 351	Econometrics I	3
EC 404	Money, Financial Markets, and the Economy	3
EC 410	Public Finance	3
EC 413	Industrial Organization	3
EC 431	Labor Economics	3
EC 449	International Finance	3
EC 451	Econometrics II	3
EC 468	Game Theory	3
EC 474	Economics of Financial Institutions and Markets	3
EC 490	Research Seminar in Economics	3
EC 495	Special Topics in Economics	1-6
EC 498	Independent Study in Economics	1-6
FTM 482	Global Brand Management in Textiles and Apparel	3
M 100	Personal and Professional Identity Development	1
MBA 577	Technology Entrepreneurship and Commercialization II	3
MIE 201	Introduction to Business	3
MIE 305	Legal and Regulatory Environment	3
MIE 310	Introduction to Entrepreneurship	3
MIE 330	Managing People	3
MIE 335	Organizational Behavior	3
MIE 412	Finance and Accounting for Entrepreneurs	3
MIE 413	New Venture Planning	3
MIE 419	Entrepreneurship Practicum	3
MIE 432	Employee Relations	3
MIE 434	Rewards and Relationship Management	3
MIE 435	Leading in a Changing World	3
MIE 436	Consultative Skills	3
MIE 438	Talent Management	3
MIE 480	Business Policy and Strategy	3
MSE 577	Technology Entrepreneurship and Commercialization II	3
PRT 406	Sports Law	3
ST 350	Economics and Business Statistics	3

## Semester Sequence

This is a sample.

### First Year

Fall Semester		Hours
AEE 101	Introduction to Career and Technical Education <sup>1</sup>	1
AEE 103	Fundamentals of Agricultural and Extension Education <sup>2</sup>	1
BIO 181	Introductory Biology: Ecology, Evolution, and Biodiversity	4
ENG 101	Academic Writing and Research <sup>1</sup>	4

GEP Mathematical Sciences ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-mathematical-sciences/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-mathematical-sciences/</a> )	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

**Hours 14**

### Spring Semester

AEE 226	Computer Applications and Information Technology in Agricultural & Extension Ed 1	3
BIO 183	Introductory Biology: Cellular and Molecular Biology	4
COM 110	Public Speaking	3
Economics Elective (p. 1)		3
GEP Mathematical Sciences ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-mathematical-sciences/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-mathematical-sciences/</a> )		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

**Hours 17**

### Second Year

#### Fall Semester

AEE 206	Introduction to Teaching Agriculture <sup>1</sup>	3
ARE 215 or BUS 225	Small Business Accounting or Personal Finance	3
BAET 201 or TDE 110	Shop Processes and Management or Materials & Processes Technology	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> )		3
Plant Science Elective (p. 2)		3

**Hours 15**

#### Spring Semester

ANS 150 & ANS 151	Introduction to Animal Science and Introduction to Animal Science Lab	4
ARE 311 or ARE 312	Agricultural Markets or Agribusiness Marketing	3
CH 101 & CH 102	Chemistry - A Molecular Science and General Chemistry Laboratory	4
GEP US Diversity, Equity, and Inclusion ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/</a> )		3

**Hours 14**

### Third Year

#### Fall Semester

AEE 322	Experiential Learning in Agriculture <sup>1</sup>	3
ARE 306 or ARE 309	Agricultural Law or Environmental Law & Economic Policy	3
EDP 304	Educational Psychology <sup>1</sup>	3
SSC 200 & SSC 201	Soil Science and Soil Science Laboratory	4



GEP Interdisciplinary Perspectives ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/</a> )		3
<b>Hours</b>		<b>16</b>
<b>Spring Semester</b>		
AEE 303	Administration and Supervision of Student Organizations <sup>1</sup>	3
AEE 326	Teaching Diverse Learners in AED <sup>1</sup>	3
ARE 303 or ARE 304	Farm Management <sup>1</sup> or Agribusiness Management	3
ED 311	Classroom Assessment Principles and Practices <sup>1</sup>	2
ED 312	Classroom Assessment Principles and Practices Professional Learning Lab <sup>1</sup>	1
ELP 344	School and Society <sup>1</sup>	3
Agricultural Business Elective (p. )		3
<b>Hours</b>		<b>18</b>
<b>Fourth Year</b>		
<b>Fall Semester</b>		
AEE 327	Conducting Summer Programs in Agricultural Education	1
AEE 426	Methods of Teaching Agriculture <sup>1</sup>	3
ARE 321 or ARE 332	Agricultural Financial Management or Human Resource Management for Agribusiness	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> )		3
GEP Interdisciplinary Perspectives ( <a href="http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/">http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/</a> )		2
Free Electives <sup>3</sup>		2
<b>Hours</b>		<b>14</b>
<b>Spring Semester</b>		
AEE 424	Planning Agricultural Educational Programs <sup>1</sup>	3
AEE 427	Student Teaching in Agriculture <sup>1</sup>	8
AEE 491	Seminar in Agricultural Education	1
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> A minimum grade of C- is required for graduation. A minimum grade of C is required for teacher licensure.

<sup>2</sup> Incoming freshmen complete AEE 103 Fundamentals of Agricultural and Extension Education. Transfer students may complete ALS 103 First-year Success in Agriculture and Life Sciences or ALS 303 Transfer Success in Agriculture and Life Sciences.

<sup>3</sup> Total hours of free electives vary in order to allow the minimum hours required for the degree to equal 120 credit hrs.

## Career Opportunities

The Agricultural Business Management Program prepares graduates for careers in management, marketing, sales, finance, supply chain, entrepreneurship, and related fields. The program has sufficient flexibility to provide more extensive course work in science and math for those students desiring to prepare for advanced graduate study. The concentration in biological sciences prepares graduates for management,

marketing, and sales careers in fields such as biotechnology, pharmaceuticals, health care, environmental protection, and food processing. Graduates specializing in agribusiness entrepreneurship are trained in value creation and prepared to address the strong demand in agtech, biotech, and foodtech.

## Career Titles

- Agricultural Inspector
- Agricultural Technician
- Aquaculture Specialist
- Bank and Branch Managers
- Buyer
- Farm and Ranch Manager
- Farm Management Advisor
- Farm Product Buyer
- Farm Products Purchasing Agent
- Farmers and Ranchers
- Financial Analyst
- Food & Drug Inspector
- Greenhouse and Nursery Manager
- Insurance Agent
- Loan Officer
- Market Research Analyst
- Purchasing Manager
- Real Estate Broker
- Sales Representative (Agricultural Products)
- Winemaker / Vintner

## 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.

Focus 2 Apply Assessment (<https://www.focus2career.com/Portal/Register.cfm?SID=1929>) (Available to prospective students)

A career assessment tool designed to support prospective students in exploring and choosing the right major and career path based on your

unique personality, interests, skills and values. Get started with Focus 2 Apply and see how it can guide your journey at NC State.

Agricultural and Applied Economics Association (<https://www.aaea.org/employmentopps/>)

AgCareers.com (<https://www.agcareers.com/newsletters/AgCareers.com-Electronic-Internship-Flyer.htm>)

National Agri-Marketing Association (<https://www.nama.org/>)