

Agricultural Education (BS): Agricultural Business Concentration

To see more about what you will learn in this program, visit the Learning Outcomes website (<https://apps.oirp.ncsu.edu/pgas/>)!

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, including contact information, 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	Counts towards
Orientation			
AEE 103	Fundamentals of Agricultural and Extension Education	1	
or ALS 103	Freshman Transitions and Diversity in Agriculture & Life Sciences		
or ALS 303	Transfer Transitions and Diversity in Agriculture & Life Sciences		
Communication			
COM 110	Public Speaking	3	

Sciences

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

Teaching Content Courses

BAET 201 or TDE 110	Shop Processes and Management Materials & Processes Technology	3
Plant Science Elective (p. 3)		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 ¹	3
ELP 344	School and Society ¹	3
ED 311	Classroom Assessment Principles and Practices ¹	2
ED 312	Classroom Assessment Principles and Practices Professional Learning Lab ¹	1
Concentration Electives		
ARE 215 or BUS 225	Small Business Accounting Personal Finance	3
ARE 303 or ARE 304	Farm Management Agribusiness Management	3
ARE 306 or ARE 309	Agricultural Law Environmental Law & Economic Policy	3
ARE 311 or ARE 312	Agricultural Markets Agribusiness Marketing	3
ARE 321 or ARE 332	Agricultural Financial Management Human Resource Management for Agribusiness	3
ARE, BUS or EC Elective (p. 7)		3
Select one of the following		3
Economics electives:		
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 ¹	4
GEP Humanities (http:// catalog.ncsu.edu/undergraduate/ gep-category-requirements/gep- humanities/)		6
GEP Mathematical Sciences (http:// catalog.ncsu.edu/undergraduate/ gep-category-requirements/gep- mathematical-sciences/)		6
GEP Health and Exercise Studies (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/gep-health-exercise- studies/)		2
GEP Additional Breadth (http:// catalog.ncsu.edu/undergraduate/ gep-category-requirements/) (Mathematical Sciences/Natural Sciences/Engineering)		3
GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/gep-interdisciplinary- perspectives/)		5
GEP U.S. Diversity (http:// catalog.ncsu.edu/undergraduate/ gep-category-requirements/gep-us- diversity/) (verify requirement)		
GEP Global Knowledge (http:// catalog.ncsu.edu/undergraduate/ gep-category-requirements/ gep-global-knowledge/) (verify requirement)		
Foreign Language Proficiency (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/foreign-language- proficiency/) (verify requirement)		
Free Electives		
Free Electives (12 Hr S/U Lmt) ²		2
Total Hours		120

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.

Plant Science Electives

Code	Title	Hours	Counts towards
AEC 423	Introduction to Fisheries Sciences Laboratory	1	
ALS 103	Freshman Transitions and Diversity in Agriculture & Life Sciences	1	
ALS 303	Transfer Transitions and Diversity in Agriculture & Life Sciences	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 312	Grassland Management for Natural Resources Conservation	3	
CS 400	Turf Cultural Systems	3	
CS 410	Community Food Systems	3	
CS 411	Crop Ecology	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	
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	Special Problems	1-6
CSSC 290	Professional Development in Crop & Soil Sciences	1
CSSC 490	Senior Seminar in Crop Science and Soil Science	1
CSSC 492	Professional Internship Experience in Crop and Soil Sciences	1-3
CSSC 493	Research Experience in Crop and Soil Sciences	1-3
CSSC 495	Special Topics in Crop and Soil Sciences	1-6
ENT 402	Forest Entomology	3
ENT 470	Advanced Turfgrass Pest Management	2

FOR 150	Critical Thinking and Data Analysis	2	FOR 353	GIS and Remote Sensing for Environmental Analysis and Assessment	3
FOR 172	Forest System Mapping and Mensuration I	2	FOR 374	Forest Measurement, Modeling, and Inventory	3
FOR 204	Silviculture	2	FOR 402	Forest Entomology	3
FOR 248	Forest History, Technology and Society	3	FOR 405	Forest Management	4
FOR 250	Professional Development II: Communications in Natural Resources	1	FOR 406	Forest Inventory, Analysis and Planning	4
FOR 252	Introduction to Forest Science	3	FOR 408	Hardwood Management	3
FOR 260	Forest Ecology	4	FOR 411	Forest Tree Genetics and Biology	3
FOR 261	Forest Communities	2	FOR 414	World Forestry	3
FOR 264	Forest Wildlife	1	FOR 415	World Forestry Study Tour	1
FOR 265	Fire Management	1	FOR 420	Watershed and Wetlands Hydrology	4
FOR 273	Forest System Mapping and Mensuration II	3	FOR 422	Consulting Forestry	3
FOR 293	Independent Study in Forest Management	1-6	FOR 430	Forest Health and Protection	3
FOR 294	Independent Study in Forest Management	1-6	FOR 434	Forest Operations and Analysis	3
FOR 295	Special Topics in Forestry	1-6	FOR 472	Forest Soils	4
FOR 303	Silvics and Forest Tree Physiology	3	FOR 491	Special Topics in Forestry and Related Natural Resources	1-4
FOR 304	Theory of Silviculture	4	FOR 493	Independent Study in Forest Management	1-6
FOR 318	Forest Pathology	3	FOR 494	Independent Study in Forest Management	1-6
FOR 319	Forest Economics	3	FOR 501	Dendrology	3
FOR 330	North Carolina Forests	3	FOR 502	Forest Measurements	1
FOR 334	Operations Research Applications in Natural Resources	1	FOR 503	Tree Physiology	1
FOR 339	Dendrology	4	FOR 504	The Practice of Silviculture	3
FOR 350	Professional Development III: Ethical Dilemmas in Natural Resource Management	1	FOR 505	Forest Management	4
			FOR 506	Silviculture Laboratory	1
			FOR 507	Silviculture Mini Course	1

FOR 508	Hardwood Management	3	GIS 512	Introduction to Environmental Remote Sensing	3
FOR 509	Forest Resource Policy	1	HS 131	Fruit & Vegetable Production	3
FOR 510	Introduction to GPS	1	HS 144	Weeds & Diseases of Ornamentals	3
FOR 513	Silviculture for Intensively Managed Plantations	3	HS 200	Home Horticulture	3
FOR 514	Woodland Stewardship	3	HS 201	The World of Horticulture: Principles and Practices	3
FOR 519	Forest Economics	3	HS 202	Home Plant Identification	3
FOR 520	Watershed and Wetlands Hydrology	4	HS 203	Home Plant Propagation	3
FOR 522	Consulting Forestry	3	HS 204	Home Landscape Maintenance	3
FOR 531	Wildland Fire Science	3	HS 205	Home Food Production	3
FOR 532	Wildland Firefighter	3	HS 215	Agricultural Genetics	3
FOR 534	Forest Operations and Analysis	3	HS 242	Introduction to Small Scale Landscape Design	3
FOR 540	Advanced Dendrology	3	HS 250	Home Landscape Design: Creating Garden Spaces	3
FOR 561	Forest Communities of the Southeastern Coastal Plain	1	HS 252	Landscape Graphic Communication	2
FOR 562	Forest Communities of the Southern Appalachians	1	HS 272	Landscape Design/Build	6
FOR 565	Plant Community Ecology	4	HS 280	Hands-On-Horticulture	3
FOR 574	Forest Mensuration and Modeling	3	HS 290	Horticulture: Careers and Opportunities	1
FOR 575	Advanced Terrestrial Ecosystem Ecology	3	HS 301	Plant Propagation	4
FOR 583	Tropical Forestry	3	HS 302	Gardening with Herbaceous Perennials	3
FOR 595	Special Topics	1-6	HS 303	Ornamental Plant Identification I	3
FS 462	Postharvest Physiology	3	HS 304	Ornamental Plant Identification II	3
FS 562	Postharvest Physiology	3	HS 357	Landscape Grading and Drainage	4
FW 221	Conservation of Natural Resources	3	HS 400	Residential Landscaping	6
FW 404	Wildlife Habitat Management	3	HS 410	Community Food Systems	3

HS 411	Nursery Management	3	HS 494	Teaching Experience in Horticultural Science	1-3
HS 416	Planting Design	4	HS 495	Experimental Courses in Horticultural Science	1-6
HS 418	Digital Media Graphic for Landscape Designers	3	HS 502	Plant Disease: Methods & Diagnosis	2
HS 420	Green Infrastructure	3	HS 516	Planting Design	4
HS 421	Temperate-Zone Tree Fruits: Physiology and Culture	3	HS 520	Green Infrastructure	3
HS 422	Small Fruit Production	3	HS 521	Temperate-Zone Tree Fruits: Physiology and Culture	3
HS 423	Viticulture	3	HS 523	Viticulture	3
HS 428	Service-Learning in Urban Agriculture Systems	1	HS 532	Introduction to Permaculture	3
HS 431	Vegetable Production	4	HS 533	Public Garden Administration	3
HS 432	Introduction to Permaculture	3	HS 541	Plant Breeding Methods	3
HS 433	Public Garden Administration	3	HS 550	Environmental Nursery Production	3
HS 440	Greenhouse Management	3	HS 551	Plant Nutrition	3
HS 442	Floriculture Crop Production	3	HS 562	Postharvest Physiology	3
HS 451	Plant Nutrition	3	HS 576	Crop Physiology and Production in Controlled Environments	3
HS 462	Postharvest Physiology	3	HS 583	Advanced Floral Crop Production and Handling	3
HS 471	Landscape Ecosystem Management	4	HS 590	Special Problems in Horticultural Science	1-6
HS 475	Horticulture Entrepreneurship	3	NR 420	Watershed and Wetlands Hydrology	4
HS 476	Crop Physiology and Production in Controlled Environments	3	NR 460	Renewable Natural Resource Management and Policy	3
HS 480	Sustainable Food Production (capstone)	1	NR 491	Special Topics in Forestry and Related Natural Resources	1-4
HS 491	Sustainable Agriculture Entrepreneurship Study Abroad	3	NR 520	Watershed and Wetlands Hydrology	4
HS 492	Horticulture Internship	1-3			
HS 493	Research Experience in Horticultural Science	1-3			

NR 560	Renewable Natural Resource Management and Policy	3
PP 144	Weeds & Diseases of Ornamentals	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	Service-Learning in Urban Agriculture Systems	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	Counts towards
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	BUS 429	Financial Modeling	3
ARE 475	Food Policy	3	BUS 440	Database Management	3
ARE 490	Career Seminar in Agriculture & Resource Economics	1	BUS 441	Business Data Communications and Networking	3
ARE 492	External Learning Experience	1-6	BUS 442	Information Systems Development	3
ARE 493	Special Problems/ Research Exploration	1-6	BUS 443	Web Development for Business Applications	3
ARE 494	Agribusiness Study Abroad	1-6	BUS 444	Systems Analysis and Design	3
ARE 495	Special Topics in Agricultural and Resource Economics	1-6	BUS 449	Information Technology Capstone	3
ARE 590	Special Topics in ARE	1-99	BUS 458	Analytics: From Data to Decisions	3
BUS 225	Personal Finance	3	BUS 459	Business Analytics Practicum	3
BUS 295	Special Topics in Business Management	1-6	BUS 460	Consumer Behavior	3
BUS 320	Financial Management	3	BUS 461	Channel and Retail Marketing	3
BUS 340	Information Systems Management	3	BUS 462	Marketing Research	3
BUS 350	Economics and Business Statistics	3	BUS 464	International Marketing	3
BUS 351	Predictive Analytics for Business	3	BUS 465	Traditional and Digital Brand Promotion	3
BUS 360	Marketing Methods	3	BUS 466	Personal Selling	3
BUS 370	Operations and Supply Chain Management	3	BUS 467	Product and Brand Management	3
BUS 420	Financial Management of Corporations	3	BUS 468	Marketing Strategy	3
BUS 422	Investments and Portfolio Management	3	BUS 469	Digital Marketing Practicum	3
BUS 425	Advanced Personal Financial Management	3	BUS 470	Operations Modeling and Analysis	3
BUS 426	International Financial Management	3	BUS 472	Operations Planning and Control Systems	3
BUS 428	Financial Analytics	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	
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 585	Market Research In Textiles	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 437		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 480		3
EC 490	Research Seminar in Economics	3
EC 495	Special Topics in Economics	1-6
EC 498	Independent Study in Economics	1-6
ECG 512	Law and Economics	3
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 Processes	3
MIE 305	Legal and Regulatory Environment	3
MIE 310	Introduction to Entrepreneurship	3
MIE 330	Human Resource Management	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	Labor and Employee Relations	3
MIE 434	Compensation Systems	3
MIE 435	Leadership and Management	3
MIE 436	Training and Development	3
MIE 438	Staffing	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
TTM 585	Market Research In Textiles	3

Semester Sequence

This is a sample.

First Year

Fall Semester		Hours
AEE 101	Introduction to Career and Technical Education ¹	1
AEE 103	Fundamentals of Agricultural and Extension Education ²	1
BIO 181	Introductory Biology: Ecology, Evolution, and Biodiversity	4
ENG 101	Academic Writing and Research ¹	4
GEP Mathematical Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-mathematical-sciences/)		3
GEP Health and Exercise Studies (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/)		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 (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-mathematical-sciences/)		3
GEP Health and Exercise Studies (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/)		1
Hours		17

Second Year

Fall Semester		Hours
AEE 206	Introduction to Teaching Agriculture ¹	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 (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)	3
Plant Science Elective (p. 3)	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 Additional Breadth (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/) (Mathematical Sciences/Natural Sciences/Engineering)		3

Hours **14**

Third Year

Fall Semester

AEE 322	Experiential Learning in Agriculture ¹	3
ARE 306 or ARE 309	Agricultural Law or Environmental Law & Economic Policy	3
EDP 304	Educational Psychology ¹	3
SSC 200 & SSC 201	Soil Science and Soil Science Laboratory	4
GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)		3

Hours **16**

Spring Semester

AEE 303	Administration and Supervision of Student Organizations ¹	3
AEE 326	Teaching Diverse Learners in AED ¹	3
ARE 303 or ARE 304	Farm Management ¹ or Agribusiness Management	3
ED 311	Classroom Assessment Principles and Practices ¹	2
ED 312	Classroom Assessment Principles and Practices Professional Learning Lab ¹	1
ELP 344	School and Society ¹	3
Agricultural Business Elective (p.)		3

Hours **18**

Fourth Year

Fall Semester

AEE 327	Conducting Summer Programs in Agricultural Education	1
AEE 426	Methods of Teaching Agriculture ¹	3
ARE 321 or ARE 332	Agricultural Financial Management or Human Resource Management for Agribusiness	3
GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)		3
GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)		2

Free Electives ³		2
	Hours	14
Spring Semester		
AEE 424	Planning Agricultural Educational Programs ₁	3
AEE 427	Student Teaching in Agriculture ¹	8
AEE 491	Seminar in Agricultural Education	1
	Hours	12
	Total Hours	120

¹ A minimum grade of C- is required for graduation. A minimum grade of C is required for teacher licensure.

² Incoming freshmen complete AEE 103 Fundamentals of Agricultural and Extension Education. Transfer students may complete ALS 103 Freshman Transitions and Diversity in Agriculture & Life Sciences or ALS 303 Transfer Transitions and Diversity in Agriculture & Life Sciences.

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