



All students must complete two Global Issues courses (▲). All students must take a Social Diversity requirement in the GE by completing Rural Sociology 1500 or Sociology 1101.

FAES 1100 (0.5 cr hr) and HCS 1100 (0.5 cr hr)	.5, .5	Social Science 2 (AED Econ 2001 or Econ 2001)	3
Writing Level 1 (English 1110)	3	Historical Study (see approved CFAES GE List)	3
Writing Level 2 (2367) see approved CFAES GE List	3	Culture & Ideas or Historical Study (see approved CFAES GE List)	3
Agr Comm 3130 or Comm 2110	3	Literature (see approved CFAES GE List)	3
Math 1130, 1148, 1150, 1151, or 1156	4 or 5	Art (see approved CFAES GE List)	3
Data Analysis (HCS 2260 recommended)	3	Contemporary Issues (see approved CFAES GE List)	3
Physical Science Chem 1110, 1210, or 1220	5	Internship (FAES 3191.01 and HCS 4191.01)	0.2
Biological Science (Bio 1113 req'd)	4	TOTAL GE Credit Hours	57 or 58
Add'l. Sci. (HCS 2201 Ecological Mng'd Plt Sys. req'd)	4	SPS – Agronomy Specialization	42-43
Opt. 1 (HCS 2202 Frm & Fxn Cult Plt req'd)	4	SPS – Minor Equivalent	15-18
Social Science 1 (Rural Soc 1500 or Sociol 1101)	3	Electives	2-7
		TOTAL Credit Hours	121

AGRONOMY SPECIALIZATION 42-43

Required Courses – Agronomy Specialization 36

HCS	3100	Introduction to Agronomy	3
HCS	3310	Crop Responses to the Environment	3
HCS	3420	Seed Science	3
HCS	4325	Plant Genetics	3
HCS	5100	Advanced Cropping Systems (Capstone)	3
HCS	5411	Domestic & Util. Agron. Crops	3
HCS	5412	Agroecol. of Grasslands and Prairies	3
HCS	5422	Biology & Mgmt. of Weeds and Invasive Plants	3
ENR	3000	Soil Science	3
ENR	3001	Soil Science Laboratory	1
ENTMLGY	4600	Intro to Insect Science	1
ENTMLGY	4601	General Insect Pest Management	2
PLNTPTH	3001	General Plant Pathology	3
PLNTPTH	3002	General Plant Pathology Lab	2

Elective Courses – Agronomy Specialization 6-7

HCS	3220	Crop Origins and Diversity	2
HCS	3488.01	Profess. Devel. in Hort and Crop Science	1-3
HCS	4193	Individual Studies	1-3
HCS	4560	Creating a Virtual Perspective	3
HCS	4998	Undergraduate Research ¹	1-12
HCS	4999	Research with Distinction ¹	1-12
HCS	4999H	Honors Research with Distinction ¹	1-12
HCS	5097.01-.04	Study Abroad Pre-Departure Course	1
HCS	5797.01-.04	Study Abroad	3
HCS	5601	Digital Portfolio Development	1
HCS	5602	Ecology of Agriculture (Capstone)	3
HCS	5621	Physiology of Cultivated Plants	3
HCS	5622	Biochemical Processes in Cultivated Plants ²	3
HCS	5887	Introduction to Experimental Design	3

¹Students may take up to 12 credits of any combination of 4193, 4998, 4999, or 4999H, but only up to 6 credits can count towards the major electives

² Prerequisite of CHEM 2310 or 2510.

³ CHEM 2310 prerequisites: 1110, 1220 (122), 1250 (125), 1620, or 1920H.

Not open to students with credit for 2510 (251), 2610, or 2910H

⁴ Prerequisite of CHEM 1220 and CHEM 2310 or 2510.

⁵ Prerequisite of BIO 1114 or 1114H.

MINOR EQUIVALENT 15-18

Students must take the following two courses (5-6 credits), as well as 10 to 13 credits from one of the groups in the next column.

Required Courses 5-6

AGSYSMT	4580	Precision Agriculture	2
or ENR	3700	Intro to Spatial Info for ENR	3
ENR	5270	Soil Fertility	3

Group A – Farm Production and Management 10-13

AEDECON	2105	Managerial Records and Analysis	3
AEDECON	3101	Principles of Agribusiness Management	3
AEDECON	3104	Farm Business Management	3
AEDECON	3113	Commodity Futures and Option Markets	2
AEDECON	3123	Grain Merchandising	2
AEDECON	3170	Agribusiness Law	3
AGSYSMT	2370	Environmental Hydrology	2
AGSYSMT	2580	Introduct. To Digital Agric.	2
AGSYSMT	3232	Engines and Power Transmission	3
or AGSYSMT	3360	Agricultural Machinery Management	3
AGSYSMT	3330	Grain Handling, Drying, Milling	3
ANIMSCI	2200.01	Intro to Animal Sciences	3
ANIMSCI	2200.02	Intro to Animal Sciences Lab	1
ENR	3280	Water Quality Management	2
ENR	4260	Soil Resource Management	3
ENTMLGY	5600	Integrated Pest Management	3
ENTMLGY	5800	Pesticide Science	3
PLNTPTH	5140	Diseases of Field Crops	2
PLNTPTH	5603	Plant Disease Management	3

Group B – Consulting and Industry 10-13

AEDECON	3101	Principles of Agribusiness Management	3
AEDECON	3102	Principles of Agribusiness Marketing	3
or BUSML	3150	Foundations of Marketing	3
AEDECON	3160	Human Resource Mgmt in Small Business	3
or BUS-MHR	3100	Foundations of Management and HR	3
AGSYSMT	2371	Land Surveying for Agric. & Environ. Sys.	1
AGSYSMT	2580	Introduct. To Digital Agric.	2
AGSYSMT	3330	Grain Handling, Drying, Milling	3
AGSYSMT	3580	UAS and Remote Sensing in Agriculture	3
AGSYSMT	4300	Engineering Applications in Ag.	4
AEDECON	3121	Salesmanship in Agribusiness	2
BUS-MHR	2000	Introduction to International Business	1.5
ENR	4260	Soil Resource Management	3
ENTMLGY	5600	Integrated Pest Management	3
ENTMLGY	5800	Pesticide Science	3
PLNTPTH	5140	Diseases of Field Crops	2
PLNTPTH	5603	Plant Disease Management	3

Group C – Research 10-13

CHEM	2310	Introductory Organic Chemistry ³	4
BIOCHEM	4511	Introduction to Biological Chemistry ⁴	4
EEOB	3310.01 or 3310.02	Evolution ⁵	4
EEOB	3410	Ecology	4
ENR	5261	Environmental Soil Physics	3
ENR	5262	Env. Soil Chem. and Remediation	3
ENR	5263	Biology of Soil Ecosystems	3
ENR	5268	Soils and Climate Change	2
ENR	5273	Environ. Fate Impact of Cont. Soil Water	3
GEOG	5900	Weather, Climate, & Global Warming	3