

B.S. Agricultural & Food Systems
Agriculture & Food Security Major
Advising Sheet 2021-2022

University Common Requirements (UCORE):

34 credit minimum required, with no more than three, three-credit courses within the major.

First Year Experience (3 credits) [ROOT]	Credits	Term	Grade	Offered
HISTORY 105: Roots of Contemporary Issues	3			F, S, SS

Foundational Competencies (9 credits minimum)	Credits	Term	Grade	Offered
<i>Written Communication (3) [WRTG]</i>				
ENGLISH 101: Introductory Writing	3			F, S, SS
<i>Communication (3) [COMM] [WRTG]</i>				
H_D 205: Dev. Effective Com. or COM 102: Com. in Info. Soc.	3 - 4			F, S, SS
<i>Quantitative Reasoning (3) [QUAN]</i>				
STAT 212: Intro to Stat Methods	4			F, S, SS

Ways of Knowing (16 credits minimum)	Credits	Term	Grade	Offered
<i>Inquiry in the Social Sciences (3) [SSCI]</i>				
ECONS 101: Fundamental Microeconomics	3			F, S, SS
<i>Inquiry in the Humanities (3) [HUM]</i>				
Elective	3			F, S, SS
<i>Inquiry in the Creative and Professional Arts (3) [ARTS]</i>				
Elective	3			F, S, SS
<i>Inquiry in the Natural Sciences (7 minimum) [BSCI] [PSCI] [SCI]</i>				
Major requirements (two of three): BIOLOGY 106: Intro to Organismal or BIOLOGY 107: Intro to Cell Bio & Genetics or BIOLOGY 120: Intro to Botany	4			BIO 106: F, S, SS BIO 107: F, S, SS BIO 120: F
CHEM 101: Intro to Chem or CHEM 105: Prin. Of Chem I	4			F, S, SS

Integrative and Applied Learning (6 credits minimum)	Credits	Term	Grade	Offered
<i>Diversity (3) [DIVR]</i>				
Elective	3			F, S, SS
<i>Integrative Capstone (3) [CAPS]</i>				
AFS 401: Adv. Systems Analysis & Design in AFS	3			S

Agricultural & Food Systems Core Requirements:

Course	Credits	Term	Grade	Offered
AFS 201: System Skills Development for AFS	3			S
ANIM_SCI 101: Introduction to Animal Science, or FS 110: Introduction to Food Science	3			F, S
SOIL_SCI 201: Soil: A Living System	3			F, S
CROP_SCI/HORT 102: Cultivated Plants	3			F, S online
CROP_SCI 360: World Agricultural Systems	3			F, S online
BIOLOGY 106, BIOLOGY 107, or BIOLOGY 120	4			See above
CHEM 102: Chem Related to Life Sciences or CHEM 106: Princ. Of Chem II	4			CHEM 102: S, SS CHEM 106: F, S, SS
ECONS 350: Intro to Farm & Ranch Mgmt. or ECONS 352 Business Mgmt. Economics	3			ECONS 350: F ECONS 352: S
<i>Three credits from the following systems based courses:</i>	3			
AGTM 305: Ag Precision Systems (3)(F); AGTM 310: Small Engine Maintenance & Repair (3)(F); ANIM_SCI 464: Companion Animal Mgmt [M] (3)(F); ANIM_SCI 472: Dairy Cattle Production (3)(F); ANIM_SCI 474: Beef Cattle Production (3)(S); BIOLOGY 372: Gen Ecol (4)(F,S); CROP_SCI 302: Forage Crops (3)(S odd); ECONS 351: Intro Food/Ag Mktg (3)(F); HORT 320: Olericulture (3)(F odd); SOE 300: Nat Res Ecol (3)(F,S); SOIL_SCI 368: Into ArcGIS (3)(F) or other systems courses approved by your advisor				

Agriculture & Food Security Major Requirements:

Course	Credits	Term	Grade	Offered
AFS 336: Ag. Environment & Community	3			F
CROP_SCI/HORT 202: Crop Growth & Development	4			S
CROP_SCI 305: Ecology & Management of Weeds	3			F
CROP_SCI 403: Adv. Cropping Systems	3			F
ENTOM 343: [M] General Entomology	3			F
ENTOM 351: Ecological & Integrated Pest Management	3			S
IPM 452: Pesticides and the Environment	2			S
PL_P 300: Disease of Fruit Crops	2			F even
PL_P 429: General Plant Pathology	3			F
AFS 302: [M] Intro to Agroecology or SOIL_SCI 414/415: Environmental Biophysics	3			S
SOIL_SCI 441: Soil Fertility	3			S
400/500 level Seminar in any CAHNRS Dept.	1			F, S
FS 220: Food Safety and Quality	3			S

Open Electives:

Course*	Credits	Term	Grade	Offered

CHECK LIST FOR THIS MAJOR:

Writing in the Major (2 [M] courses)		
Writing Portfolio		
40 Upper Division Credits		
UCORE	36-37 credits	
AFS Core	29 credits	
Agriculture & Food Security Major	36 credits	
Open Electives	19 credits	
Total (at least 120 credits)		

NOTES:

Students may be admitted to the Agriculture & Food Security Major upon making their intention known to the department.

**Electives are chosen by the student and are needed to reach the minimum 120 credits to graduate.*

Electives can be used towards a minor. Contact an advisor or the department for more information on courses for your minor interest. Suggested minors could be Business Administration, Economics, Agribusiness Economics, Environmental and Resource Economics, Sustainable Development, Communications, Animal Sciences, Crop Science, Horticulture, Natural Resources, Soil Science, Political Science, Global Politics, a foreign language, etc.

Last Updated 10/4/2021

FOUR-YEAR PLAN

	Fall Semester	Hours	Spring Semester	Hours
First Year	ANIM_SCI 101	3	ENGLISH 101 [WRTG]	3
	CHEM 101 or CHEM 105 [PSCI]	4	CHEM 102 or CHEM 106	4
	CROP_SCI/HORT 102	3	CROP_SCI/HORT 202	4
	HISTORY 105 [ROOT]	3	H_D 205 or COM 102 [COMM]	3 or 4
	ECONS 101 [SSCI]	3		
Second Year	BIOLOGY 107 or BIOLOGY 120 [BSCI]	4	BIOLOGY 106	4
	AFS 201	3	Creative & Professional Arts [ARTS]	3
	SOIL_SCI 201	3	STAT 212 [QUAN]	4
	Diversity [DIVR]	3	Elective	3
	Humanities [HUM]	3	Complete Writing Portfolio	
Third Year	ENTOM 343 [M]	3	AFS 302 ² [M]	3
	CROP_SCI 305	3	IPM 452	2
	CROP_SCI 360	3	AFS Core Systems Elective ³	3
	ECONS 350 ¹	3	ENTOM 351	3
	Elective	6	Elective	3
			FS 220	3
Fourth Year	PL_P 300	2	AFS 401 [CAPS]	3
	PL_P 429	3	SOIL_SCI 441	3
	CROP_SCI 403	3	Elective	6
	AFS 336	3	CAHNRS 400/500 Level Seminar	1
	Elective	6		

Footnotes

- ¹ ECONS 352, which is only offered in the spring, may be used as an alternative for ECONS 350.
- ² AFS Core Systems Electives: AGTM 310, ANIM SCI 464 [M], 472 [M], 474 [M], BIOLOGY 372 [M], CROP SCI 302, ECONS 351, HORT 320, SOE 300, SOIL SCI 368, or other systems courses approved by your advisor.
- ³ SOIL SCI 414 and 415 can be taken as an alternative to SOIL SCI 302 [M]. However another [M] course will be required.
- ⁴ 400–500–level Seminar: AGTM 451, CROP SCI/SOIL SCI 412, HORT/VIT ENOL 409, or as approved by advisor.