MAJOR IN AGRICULTURAL BUSINESS, FARM AND RANCH MANAGEMENT CONCENTRATION

The Farm and Ranch Management concentration builds skills in applied decision making required in production agriculture. The program of study allows students to apply a solid understanding of economics and the underlying physical and biological sciences that drive agricultural technology to problems facing modern farmers and ranchers.

Requirements
Effective Fall 2023

Freshman

		AUCC	Credits
AREC 192	Orientation to Agricultural and Resource Econ		1
AREC 202	Agricultural and Resource Economics (GT-SS1)	3C	3
CHEM 103	Chemistry in Context (GT-SC2)	3A	3
CO 150	College Composition (GT-CO2)	1A	3
ECON 204	Principles of Macroeconomics (GT-SS1)	3C	3
MATH 117	College Algebra in Context I (GT-MA1)	1B	1
MATH 118	College Algebra in Context II (GT-MA1)	1B	1
MATH 124	Logarithmic and Exponential Functions (GT-MA1)	1B	1
Select one course from the following:			3-4
ANEQ 101	Food Animal Science		
ANEQ 102	Introduction to Equine Science		
FTEC 110	Food-From Farm to Table		
HORT 100	Horticultural Science	3A	
SOCR 100	General Crops		
Select one course from the following:[1]			3-4
AREC 230	Agricultural Data Management and Analysis		
BUS 150	Business Computing Concepts and Applications		
CS 110	Personal Computing		
Select four credits from the following:			4
BZ 110 & BZ 111	Principles of Animal Biology (GT-SC2)	3A	
BZ 120	Principles of Plant Biology (GT-SC1)	3A	
LIFE 102	Attributes of Living Systems (GT-SC1)	3A	
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)		1C	3
	Total Credits		**29-30**

Sophomore

ACT 205	Fundamentals of Accounting		3
AREC 305	Agricultural and Resource Enterprise Analysis		3
MATH 141	Calculus in Management Sciences (GT-MA1)	1B	3
SPCM 200	Public Speaking		3
Advanced Writing (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#advanced-writing)		2	3
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		3B	6
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		3D	3
Agricultural Science Electives[2]			3

Elective			3
	Total Credits		**30**
Junior			
Select one course from the following:			3
AREC 330	Data-Driven Ag and Res Econ Decision Making		
AREC 335/ECON 335	Introduction to Econometrics		
AREC 408	Agricultural Finance		3
MKT 305	Fundamentals of Marketing		3
MKT 362	Professional Selling		3
STAT 301	Introduction to Applied Statistical Methods		3
Select two courses from the following:			6
AREC 310	Agricultural Marketing		
AREC 311	Agricultural and Resource Product Marketing		
AREC 412	Agricultural Commodities Marketing		
AREC 415	International Agricultural Trade		
AREC 428	Agricultural Business Management		
Agricultural Sciences Electives[2]			6
Electives			3
	Total Credits		**30**
Senior			
AREC 375	Agricultural Law		3
AREC 405	Agricultural Production Management	4A,4C	3
AREC 492	Senior Seminar in Ag and Resource Economics		1
ECON 306	Intermediate Microeconomics		3
Select one course from the following:			3
AREC 460	Ag- and Resource-Based Economic Development	4B	
AREC 478	Agricultural Policy	4A,4B,4C	
Agricultural Science Electives[2]			6
AREC/ECON Electives[3]			6
Electives[4]			5-6
	Total Credits		**31**
	Program Total Credits:		**120**

[1] AREC 230 is recommended.

[2] Select a total of 15 credits from courses in AB, AGED, AGRI, ANEQ, AREC, BSPM, FSHN, FTEC, HORT, LAND, NR, RS, SOCR, or WR. A maximum of six AREC credits may be used as Agricultural Science Electives.

[3] Select from AREC and/or ECON courses.

[4] Select enough elective credits to bring the program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400-level).

Major Completion Map

Freshman

Semester 1		**Critical**	**Recommended**	**AUCC**	**Credits**
AREC 192	Orientation to Agricultural and Resource Econ				1
AREC 202	Agricultural and Resource Economics (GT-SS1)	X		3C	3
MATH 117	College Algebra in Context I (GT-MA1)	X		1B	1
MATH 118	College Algebra in Context II (GT-MA1)	X		1B	1
MATH 124	Logarithmic and Exponential Functions (GT-MA1)			1B	1
Select four credits from the following:					4
BZ 110 & BZ 111	Principles of Animal Biology (GT-SC2)			3A	

BZ 120	Principles of Plant Biology (GT-SC1)			3A	
LIFE 102	Attributes of Living Systems (GT-SC1)			3A	
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)				1C	3
	Total Credits				**14**
Semester 2		**Critical**	**Recommended**	**AUCC**	**Credits**
CHEM 103	Chemistry in Context (GT-SC2)			3A	3
CO 150	College Composition (GT-CO2)	X		1A	3
ECON 204	Principles of Macroeconomics (GT-SS1)			3C	3
Select one course from the following:					3-4
ANEQ 101	Food Animal Science				
ANEQ 102	Introduction to Equine Science				
FTEC 110	Food-From Farm to Table				
HORT 100	Horticultural Science			3A	
SOCR 100	General Crops				
Select one course from the following:		X			3-4
AREC 230	Agricultural Data Management and Analysis				
BUS 150	Business Computing Concepts and Applications				
CS 110	Personal Computing				
AUCC 1B (Quantitative Reasoning) must be completed by the end of Semester 2.		X			
	Total Credits				**15-16**
Sophomore					
Semester 3		**Critical**	**Recommended**	**AUCC**	**Credits**
ACT 205	Fundamentals of Accounting				3
AREC 305	Agricultural and Resource Enterprise Analysis				3
Advanced Writing (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#advanced-writing)				2	3
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)				3D	3
Agricultural Sciences Elective (See List on Concentration Requirements Tab)					3
	Total Credits				**15**
Semester 4		**Critical**	**Recommended**	**AUCC**	**Credits**
MATH 141	Calculus in Management Sciences (GT-MA1)	X		1B	3
SPCM 200	Public Speaking				3
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)				3B	6
Elective					3
ECON 204 and ACT 205 must be completed by the end of Semester 4.		X			
	Total Credits				**15**
Junior					
Semester 5		**Critical**	**Recommended**	**AUCC**	**Credits**
MKT 305	Fundamentals of Marketing				3
STAT 301	Introduction to Applied Statistical Methods	X			3
Select one course from the following:					3
AREC 310	Agricultural Marketing				
AREC 311	Agricultural and Resource Product Marketing				
AREC 412	Agricultural Commodities Marketing				
AREC 428	Agricultural Business Management				
Agricultural Sciences Elective (See List on Concentration Requirements Tab)					3
Elective					3
AREC 310 must be completed by the end of Semester 5.		X			
	Total Credits				**15**

Semester 6		Critical	Recommended	AUCC	Credits
Select one course from the following:		X			3
AREC 330	Data-Driven Ag and Res Econ Decision Making				
AREC 335/ ECON 335	Introduction to Econometrics				
AREC 408	Agricultural Finance				3
MKT 362	Professional Selling				3
Select one course from the following:					3
AREC 310	Agricultural Marketing				
AREC 311	Agricultural and Resource Product Marketing				
AREC 408	Agricultural Finance				
AREC 412	Agricultural Commodities Marketing				
AREC 428	Agricultural Business Management				
Agricultural Sciences Elective (See List on Concentration Requirements Tab)					3
	Total Credits				**15**

Senior

Semester 7		Critical	Recommended	AUCC	Credits
AREC 375	Agricultural Law				3
ECON 306	Intermediate Microeconomics		X		3
AREC/ECON Electives					6
Elective					3
AREC 335 must be completed by the end of Semester 7.		X			
	Total Credits				**15**

Semester 8		Critical	Recommended	AUCC	Credits
AREC 405	Agricultural Production Management	X		4A,4C	3
AREC 492	Senior Seminar in Ag and Resource Economics	X			1
Select one course from the following:		X			3
AREC 460	Ag- and Resource-Based Economic Development			4B	
AREC 478	Agricultural Policy			4A,4B,4C	
Agricultural Sciences Electives		X			6
Elective		X			2-3
The benchmark courses for the 8th semester are the remaining courses in the entire program of study.		X			
	Total Credits				**16**
	Program Total Credits:				**120**