

MAJOR IN ANIMAL SCIENCE

Major Completion Map

Distinctive Requirements for Degree Program: A minimum grade of "C-" (1.667) is required for BMS 300, SOCR 330, and each of the ANEQ courses which are required to complete the major.

A maximum of five credits is allowed for ANEQ 352, ANEQ 353, ANEQ 354, ANEQ 355, ANEQ 356, ANEQ 357, ANEQ 361, ANEQ 362, ANEQ 363, and ANEQ 364.

A maximum of 12 credits is allowed for any combination of the following: ANEQ 352, ANEQ 353, ANEQ 354, ANEQ 355, ANEQ 356, ANEQ 357, ANEQ 361, ANEQ 362, ANEQ 363, ANEQ 364, ANEQ 384, ANEQ 487A, ANEQ 495, and ANEQ 496.

Freshman

Semester 1		Critical	Recommended	AUCC	Credits
ANEQ 101	Food Animal Science	X			4
ANEQ 193	Student Seminar--Exploring Student Success	X			1
LIFE 102	Attributes of Living Systems (GT-SC1)	X		3A	4
Select at least three credits from the following:		X			3-4
MATH 117	College Algebra in Context I (GT-MA1)			1B	
MATH 118	College Algebra in Context II (GT-MA1)			1B	
MATH 120	College Algebra (GT-MA1)			1B	
MATH 124	Logarithmic and Exponential Functions (GT-MA1)			1B	
MATH 125	Numerical Trigonometry (GT-MA1)			1B	
MATH 126	Analytic Trigonometry (GT-MA1)			1B	
MATH 127	Precalculus (GT-MA1)			1B	
MATH 141	Calculus in Management Sciences (GT-MA1)			1B	
MATH 155	Calculus for Biological Scientists I (GT-MA1)			1B	
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)			X	1C	3
Total Credits					16

Semester 2		Critical	Recommended	AUCC	Credits
CO 150	College Composition (GT-CO2)	X		1A	3
Select one course from the following:		X			1-4
ANEQ 105	Introduction to Large Animal Anatomy				
BMS 305	Domestic Animal Gross Anatomy				
Select one course from the following:		X			2-4
AREC 230	Agricultural Data Management and Analysis				
BUS 150	Business Computing Concepts and Applications				
CS 110	Personal Computing				
CS 152	Python for STEM				
Select one group from the following:		X			5
Group A:					
CHEM 107	Fundamentals of Chemistry (GT-SC2)			3A	
CHEM 108	Fundamentals of Chemistry Laboratory (GT-SC1)			3A	
Group B:					
CHEM 111	General Chemistry I (GT-SC2)			3A	
CHEM 112	General Chemistry Lab I (GT-SC1)			3A	
Electives			X		0-6
Total Credits					16

Sophomore

Semester 3		Critical	Recommended	AUCC	Credits
Select one course from the following:		X			3-4
ANEQ 230	Farm Animal Anatomy and Physiology				
ANEQ 305	Functional Large Animal Physiology				
BMS 300	Principles of Human Physiology				
Select one course from the following:		X			3

AREC 202	Agricultural and Resource Economics (GT-SS1)			3C	
ECON 202	Principles of Microeconomics (GT-SS1)			3C	
Select one course from the following:		X			3
STAT 201	General Statistics (GT-MA1)			1B	
STAT 301	Introduction to Applied Statistical Methods				
STAT 307	Introduction to Biostatistics				
Business/Economics Elective		X			3
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)			X	3D	3
Total Credits					15-16
Semester 4		Critical	Recommended	AUCC	Credits
AN EQ 293	Professional Development and Career Success	X			1
AN EQ 310	Animal Reproduction	X		4B	3
AN EQ 320	Principles of Animal Nutrition	X		4B	3
SPCM 200	Public Speaking	X			3
Select one course from the following:		X			3
AN EQ 328	Foundations in Animal Genetics				
SOCR 330	Principles of Genetics				
Elective			X		0-3
Total Credits					13
Junior					
Semester 5		Critical	Recommended	AUCC	Credits
AN EQ 360	Principles of Meat Science	X		4B	3
Select one course from the following:		X			3
RS 300	Rangeland Conservation and Stewardship				
SOCR 320	Sustainable Forage Management for Livestock				
Experience Animal Science Elective (Select a minimum of 2 credits from the following):		X			2
AN EQ 487A	Internship: Animal				
Department-approved Study Abroad					
Science Elective (See list on Program Requirements tab)		X			2
Advanced Writing (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#advanced-writing)			X	2	3
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			X	3B	3
Total Credits					16
Semester 6		Critical	Recommended	AUCC	Credits
AN EQ 321	Principles of Applied Animal Nutrition	X			1
AN EQ 330	Principles of Animal Breeding	X		4B	3
Applied Animal Science Electives (See list on Program Requirements tab)		X			4
Science Elective (See list on Program Requirements tab)		X			3-6
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			X	3B	3
Electives					0-3
Total Credits					17
Senior					
Semester 7		Critical	Recommended	AUCC	Credits
Select one course from the following:		X			3-4
AN EQ 313	Prevention and Control of Livestock Diseases				
AN EQ 346	Equine Disease Management				
Select one course from the following:		X			3-4
AN EQ 470	Meat Processing Systems			4A,4C	
AN EQ 472	Sheep Systems			4A,4C	

ANEQ 473	Dairy Systems			4A,4C	
ANEQ 474	Swine Systems			4A,4C	
ANEQ 476	Feedlot Systems			4A,4C	
ANEQ 478	Beef Systems			4A,4C	
Specialization Animal Science Electives (See list on Program Requirements tab)		X			3
Elective			X		3
Total Credits					14
Semester 8		Critical	Recommended	AUCC	Credits
Select one course not previously taken:		X			3-4
ANEQ 470	Meat Processing Systems			4A,4C	
ANEQ 472	Sheep Systems			4A,4C	
ANEQ 473	Dairy Systems			4A,4C	
ANEQ 474	Swine Systems			4A,4C	
ANEQ 476	Feedlot Systems			4A,4C	
ANEQ 478	Beef Systems			4A,4C	
Business/Economics Elective		X			3
Specialization Animal Science Electives (See list on Program Requirements tab)		X			6
Elective		X			0-3
The benchmark courses for the 8th semester are the remaining courses in the entire program of study.		X			
Total Credits					12-15
Program Total Credits:					120