ANIMAL SCIENCE (ANIMAL INDUSTRY) - BACHELOR OF SCIENCE IN AGRICULTURE

The animal industry concentration includes courses that prepare you for work in many phases of the livestock industry, such as livestock production on farms and ranches, the meat industry, the feed industry, livestock breed associations, and livestock publications.

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Area I: Communications		
English Composition - Level 1 [1]		*4*
English Composition - Level 2 [1]		*3*
Oral Communication		*3*
Area II: Mathematics		
MATH 1220G	College Algebra [2]	3-4
or MATH 1511G	Calculus and Analytic Geometry I	
Area III/IV: Laboratory Sciences and Social/Behavioral Sciences		
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	4
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
Choose one from the following:		3
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Principles of Microeconomics	
Area V: Humanities [1]		*3*
Area VI: Creative and Fine Arts [1]		*3*
General Education Elective [1]		*3-4*
Viewing A Wider World [3]		**6**
Departmental/College Requirements [4]		
ANSC 1110	Animal Science Careers	1
ANSC 1120	Introduction to Animal Science	3
or ANSC 1120H	Introduction to Animal Science Honors	
ANSC 1120L	Introduction to Animal Science Lab	1
ANSC 303	Livestock, Meat and Wool Evaluation	4
or ANSC 308	Horse Evaluation	
ANSC 304	Feeds and Feeding	3
ANSC 370	Anatomy and Physiology of Farm Animals	4
ANSC/RGSC 402	Animal Science Seminar (or)	1
or ANSC 402 H	Animal Science Seminar	
ANSC 421	Physiology of Reproduction	4
ANSC 422	Animal Nutrition	3
ANSC 423	Animal Breeding	3
Ag Electives: choose a total of 6 credit with no more than 3 credits in ANSC Experience		*6*
RGSC 2110	Introduction to Rangeland Management	
ANSC 1160	Introductory Horse Science	
ANSC 1180	Companion Animal in Society	
ANSC 1140	Introduction to Dairy Science	
ANSC 2310	Introduction to Meat Science	
ANSC 301	Animal and Carcass Evaluation	
ANSC Experience		
ANSC 390	Internship	
ANSC 391	Undergraduate Research Experience	
ANSC 392	Animal Sciences Teaching/Extension Experience	
Concentration		
AEEC 2120	Introduction to Food and Agribusiness Accounting	3
or ACCT 2110	Principles of Accounting I	
ANSC 2330	Animal Production	3
ANSC 2340	Genetics in Animal Science	3
or ANSC 305	Principles of Genetics	
ANSC 1170	Introduction to Animal Metabolism	3
Electives		
Production Electives		
Select 9 credits from production courses offered in the department		9
ANSC 424	Swine Production	
ANSC 425	Horse Science and Management	
ANSC 426	Beef Production: Cow-Calf Management	
ANSC 427	Dairy Production	
ANSC 428	Sheep and Wool Production	
ANSC 429	Beef Production: Feedlot Management	
ANSC 468	Advanced Dairy Herd Management	
Ranch Management Electives		
Select three courses from the following:		9
AEEC 2140	Technology and Communication for Business Management	
AEEC 3270	Spreadsheet Applications in Food and Agriculture	
ANSC 383	Equine Reproductive Management	
ANSC 480	Environmental Physiology of Domestic Animals	
RGSC 316	Rangeland Plants	
RGSC 318	Watershed Management	
RGSC 325	Rangeland Restoration Ecology	
RGSC 458	Livestock Behavior, Welfare and Handling	
Or any AEEC or RGSC numbered 300/3000 & above except AEEC 3210 and AEEC 4530		
Business Electives		
Select one from the following:		
AEEC 3210	Marketing and Food Agricultural Products	
AEEC 4530	Case Studies in Food and Agribusiness Management	
MGMT 361	Small Business Management	
MKTG 312	Personal Selling	
Or any BUSA, MGMT, MKTG numbered 300/3000 & above that are not VWW courses		
Non-Departmental Requirements (in addition to Gen.Ed/VWW)		
A ST 311	Statistical Applications	3
Second Language: (not required)		

Electives, to bring the total to 120 [5]	**13-15**
Total Credits	**120**

1. See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) section of the catalog for a full list of courses.
2. MATH 1220G College Algebra or MATH 1511G Calculus and Analytic Geometry I is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G or MATH 1511G first.
3. See the Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext) section of the catalog for a full list of courses
4. Required of Industry and Science Options
5. Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.