

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

## A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1220G College Algebra and ENGL 1110G Composition I. The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

### First Year

Semester 1		Credits
ENGL 1110G or ENGL 1110H	Composition I <sup>1</sup> or Composition I Honors	4
MATH 1220G	College Algebra <sup>1</sup>	3
ANSC 1120 or ANSC 1120H	Introduction to Animal Science or Introduction to Animal Science Honors	3
ANSC 1120L	Introduction to Animal Science Lab	1
ACES 1120	Freshman Orientation	1
Choose from one of the following AG Elective Options:		3
RGSC 2110	Introduction to Rangeland Management	
ANSC 1160	Introductory Horse Science	
ANSC 1180	Companion Animal in Society	
ANSC 2310	Introduction to Meat Science	
<b>Credits</b>		<b>15</b>

### Semester 2

ACOM 1130G or COMM 1115G or HNRS 2175G	Effective Leadership and Communication in Agriculture <sup>1</sup> or Introduction to Communication or Introduction to Communication Honors	3
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
ANSC 1110	Animal Science Careers	1
Area V: Humanities Course <sup>2</sup>		3
Choose an elective course. Consider a minor in horse management, human animal interaction, dairy science range science or ranch management.		3
<b>Credits</b>		<b>14</b>

### Second Year

Semester 1		Credits
ENGL 2210G or ENGL 2210H	Professional and Technical Communication <sup>1</sup> or Professional and Technical Communication	3
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and Evolution	3
BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	1
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
ANSC 303 or ANSC 308	Livestock, Meat and Wool Evaluation or Horse Evaluation	4
<b>Credits</b>		<b>15</b>

### Semester 2

BIOL 2110G	Principles of Biology: Cellular and Molecular Biology	3
BIOL 2110L	Principles of Biology: Cellular and Molecular Biology Laboratory	1
ECON 1110G	Survey of Economics	3
ANSC 304	Feeds and Feeding	3
Area VI: Creative and Fine Arts - see catalog for complete list		3
VWW: Viewing a Wider World Course <sup>3</sup>		3
<b>Credits</b>		<b>16</b>

### Third Year

Semester 1		Credits
CHEM 313	Organic Chemistry I <sup>1</sup>	3
ANSC 370	System Physiology of Farm Animals	4
ANSC 305	Principles of Genetics <sup>1</sup>	3
Designated Elective II: see catalog for complete list		3-5
<b>Credits</b>		<b>13-15</b>

### Semester 2

ANSC 421	Physiology of Reproduction (Spring Only) <sup>1</sup>	4
CHEM 314	Organic Chemistry II <sup>1</sup>	3
CHEM 315	Organic Chemistry Laboratory	2
Choose from one of the following:		4
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab <sup>1</sup>	
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab <sup>1</sup>	
MATH 1511G or MATH 1511H	Calculus and Analytic Geometry I <sup>1</sup> or Calculus and Analytic Geometry I Honors	
MATH 1521G or MATH 1521H	Calculus and Analytic Geometry II <sup>1</sup> or Calculus and Analytic Geometry II Honors	
Choose an elective course. Consider a minor in horse management, human animal interaction, dairy science range science or ranch management.		3
<b>Credits</b>		<b>16</b>

### Fourth Year

Semester 1		Credits
ANSC 422	Animal Nutrition <sup>1</sup>	3
ANSC 423	Animal Breeding <sup>1</sup>	3
ANSC 402 or ANSC 402 H or RGSC 402	Animal Science Seminar or Animal Science Seminar or Seminar	1
A ST 311	Statistical Applications	3
BCHE 395	Biochemistry I	3
Choose an elective course. Consider a minor in horse management, human animal interaction, dairy science range science or ranch management.		3
<b>Credits</b>		<b>16</b>

### Semester 2

VWW: Viewing a Wider World Course <sup>3</sup>		3
Choose an elective course. Consider a minor in horse management, human animal interaction, dairy science range science or ranch management.		3
AG Elective: see catalog for complete list		3
Choose any two production courses from the following:		6
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	

2 Animal Science (Science) - Bachelor of Science in Agriculture

ANSC 429	Beef Production: Feedlot Management
ANSC 468	Advanced Dairy Herd Management
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<b>Credits</b>	<b>15</b>
<b>Total Credits</b>	<b>120-122</b>

<sup>1</sup> These courses have prerequisites and it is the students responsibility to check and fulfill all course prerequisites listed for these courses.

<sup>2</sup> See the General Education (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/>) section of the catalog for a full list of courses.

<sup>3</sup> 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.