

**Department of Animal and Range Sciences, NMSU**  
**Example Degree Plan to Fulfill the Requirements for a**  
**Bachelor of Science Degree in Animal Science**

*\*Courses in green can be substituted for other equivalent classes.*

*See list of course substitutions after example course plan.*

**Freshman Year**

Fall Semester	credit hours	Spring Semester	credit hours
<b>ANSC 100 Introductory Animal Science (3 credits) + Lab (1 credit)</b> <i>(Lecture: Tue/Th 8:55am-10:10am; Lab: Th 1:30-3:20pm OR 3:30-5:20pm; offered fall only)</i>	4	<b>CHEM 111G General Chemistry I + Lab (4 credits)</b> <i>(offered at various times; fall, spring, or summer)</i> <b>CHEM 101 General Supplemental Instruction (1 credit)</b> - *Not required but <b>HIGHLY</b> recommended <i>(offered at various times; fall or spring)</i>	4  (1)
<b>ANSC 112 Companion Animals in Society</b> <i>(Lecture: M/W/F 12:30-1:20pm; offered fall only)</i>	3	<b>ANSC 285 Companion Animal Management</b> <i>(Lecture: M/W/F 8:30-9:20am; offered spring only)</i>	3
<b>ACES 111 Freshman Orientation</b> <i>(Lecture: Tue/Th 11:45-12:30 OR 1:10-2:00; first Mini Semester (ends ~ October 14); offered fall only)</i>	1	<b>ANSC 220 Animal Science Career Development</b> <i>(Lecture: Mon 12:30-1:20pm; offered spring only)</i>	1
<b>ENGL 111G Rhetoric and Composition</b> <i>(offered at various times; fall, spring, or summer)</i>	4	<b>ENGL 218G Technical and Scientific Communication</b> <i>(offered at various times; fall, spring, or summer)</i>	3
<b>MATH 120 Intermediate Algebra</b> <i>(*some students may be eligible to start with MATH 121)</i> <i>(offered at various times; fall, spring or summer)</i>	3	<b>MATH 121G College Algebra</b> <i>(offered at various times; fall, spring or summer)</i>	3
<b>Humanities and Fine Arts or Social Behavioral Sciences General Education Elective</b> <i>(*See NMSU undergraduate catalog for list of courses.)</i>	3	<b>AXED 201G Effective Leadership &amp; Communication in Agricultural Organizations (3 credits) + Lab (0 credits)</b> <i>(offered at various times; fall or spring)</i>	3
<b>Total credit hours</b>	<b>18</b>	<b>Total credit hours</b>	<b>17-18</b>

**Sophomore Year**

Fall Semester	credit hours	Spring Semester	credit hours
<b>CHEM 112G General Chemistry II (4 credits) + Lab (0 credits)</b> <i>(offered at various times; fall, spring or summer)</i> <b>CHEM 102 General Supplemental Instruction II (1 credit)</b> <i>*Not required but <b>HIGHLY</b> recommended</i> <i>(offered at various times; fall or spring)</i>	4  (1)	<b>CHEM 313 Organic Chemistry I</b> <i>(Lecture: M/W/F 10:30-11:20am spring; also offered summer and fall)</i>	3
<b>BIOL 111G Natural History of Life (3 credits) + BIOL 111GL (Lab) (1 credit) + Workshop (0 credits)</b> <i>(offered at various times; fall, spring, or summer)</i>	4	<b>BIOL 211G Cellular and Organismal Biology (3 credits) + BIOL 211GL (Lab) (1 credit)</b> <i>(offered at various times; fall, spring or summer)</i>	4
<b>ANSC 311 Companion Animal Behavior and Training</b> <i>(Lecture: Tue/Th 8:55-10:10am; offered fall only)</i>	3	<b>ANSC 304 Feeds &amp; Feeding (3 credits) + Lab (0 credits)</b> <i>(Lecture: Tue/Th 10:20-11:35am; Lab: Wed 1:30-3:20pm OR 3:30-5:20pm; also offered fall)</i>	3
<b>ECON 201G Introduction to Economics</b> <i>(satisfies Social/Behavioral Sciences Elective)</i> <i>(offered at various times; fall, spring or summer)</i>	3	<b>ANSC 308 Horse Evaluation (4 credits) + Lab (0 credits)</b> <i>(Lecture: Tue/Th 1:30-2:20pm; Lab: Tue/Th 2:40-4:30pm; offered spring only)</i>	4
<b>Humanities and Fine Arts or Social Behavioral Sciences General Education Elective</b> <i>(*See NMSU undergraduate catalog for list of courses.)</i>	3	<b>Humanities and Fine Arts or Social Behavioral Sciences General Education Elective</b> <i>(*See NMSU undergraduate catalog for list of courses.)</i>	3
<b>Total credit hours</b>	<b>17-18</b>	<b>Total credit hours</b>	<b>17</b>

## Junior Year

Fall	credit hours	Spring	credit hours
<b>ANSC 370 Anatomy and Physiology (4 credits) + Lab (0 credits)</b> (Lecture: Tue/Th 7:30-8:45am; Lab: Wed 1:30-3:20pm; offered fall only)	4	<b>ANSC 305 Principle of Genetics</b> (Lecture: M/W/F 8:30-9:20am; also offered fall)	3
<b>ANSC 312V Companion Animals and the Human/Animal Bond</b> (Lecture: M/W/F 10:30-11:20am; offered fall only)	3	<b>ANSC 425 Horse Science Management (3 credits) + Lab (0 credits)</b> (Lecture: M/W 10:30-11:20am Lab 12:00-1:50pm; offered spring only)	3
<b>CHEM 314 Organic Chemistry II (3 credits) + CHEM 315 Organic Chemistry Lab (2 credits)</b> (Lecture: Tue/Th 6:00-7:15pm or M/W/F 10:30-11:20am; Lab: offered at various times; also offered spring and summer)	5	<b>ANSC 421 Physiology of Reproduction (4 credits) + Lab (0 credits)</b> (Lecture: M/W/F 7:30-8:20am; Lab: Mon 1:30-3:20pm or 3:30-5:20pm; offered spring only)	4
<b>RGSC 294 Range Management</b> (Lecture: M/W/F 9:30-10:20am; also offered spring)	3	<b>BCHE 395 Biochemistry I</b> (Lecture: M/W/F 2:30-3:20pm or Tue 6:00-9:00pm; also offered spring)	3
<b>Humanities and Fine Arts or Social Behavioral Sciences General Education Elective</b> (*See NMSU undergraduate catalog for list of courses.)	3	<b>VWW elective</b> (*See NMSU undergraduate course catalogue for a list of courses.)	3
<b>Total credit hours</b>	<b>18</b>	<b>Total credit hours</b>	<b>16</b>

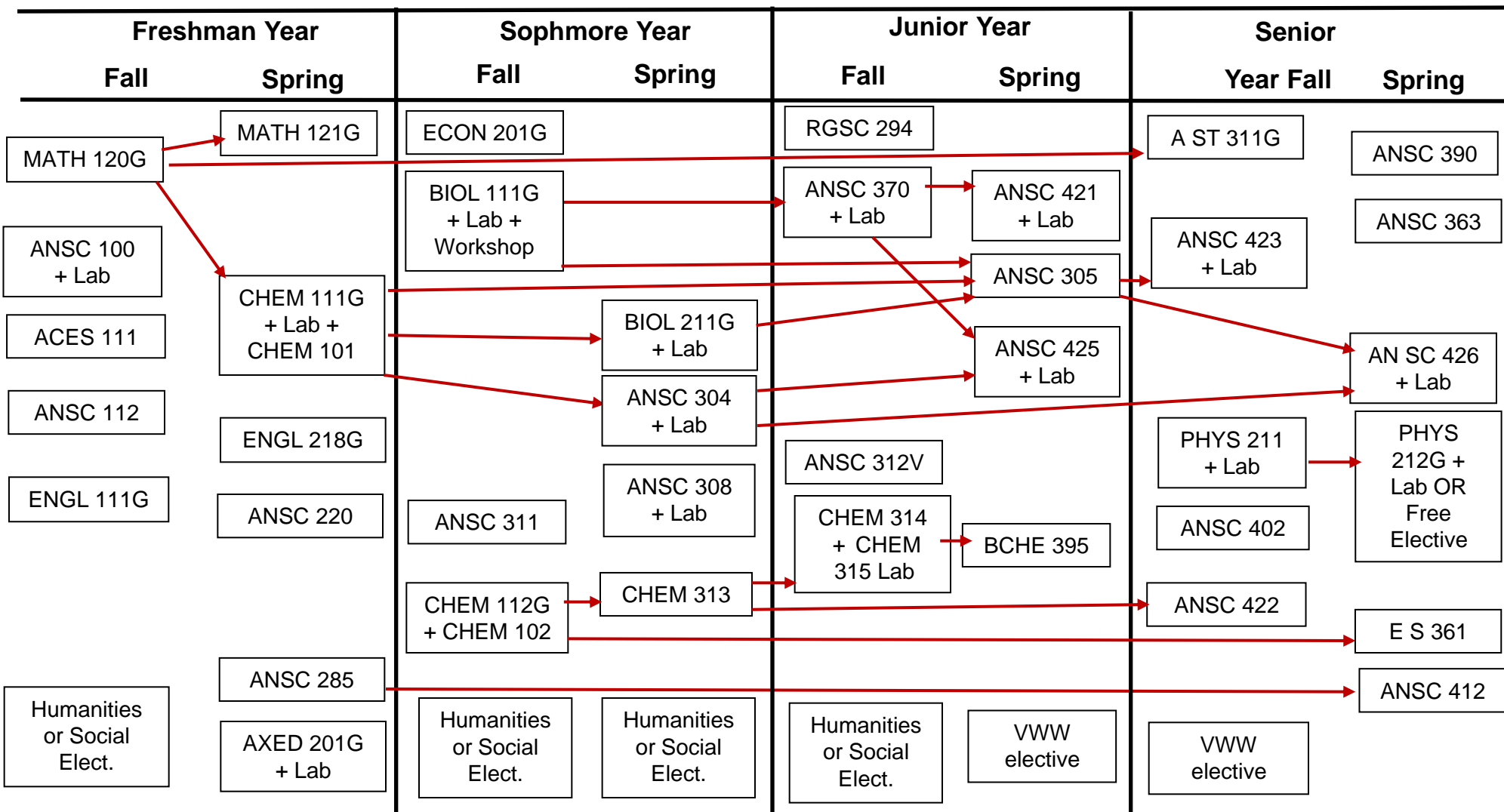
## Senior Year

Fall		Spring	
<b>ANSC 422 Animal Nutrition</b> (Lecture: M/W/F 10:30-11:20am; offered fall only)	3	<b>E S 361 Basic Toxicology</b> (Lecture: Tue/Th 11:45-1:00pm; also offered fall)	3
<b>ANSC 423 Animal Breeding (3 credits) + Lab (0 credits)</b> (Lecture: M/W 9:30-10:20am; Lab: Th 1:10-3:00pm or 3:10-5:00pm; offered fall only)	3	<b>ANSC 426 Beef Production (3 credits) + Lab (0 credits)</b> (Lecture: M/W 8:30-9:20am; Lab Th 1:10-3:00pm or 3:10-5:00pm; offered spring only)	3
<b>PHYS 211G General Physics I (3 credits) + PHYS 211GL General Physics I Lab (1 credit)</b> (offered at various times; spring, summer, and fall)	4	<b>ANSC 363 Meat Technology</b> (Lecture: Tue/Th 8:55-10:10am; offered spring only)	3
<b>VWW elective</b> (*See NMSU undergraduate course catalogue for a list of courses.)	3	<b>ANSC 412 Companion Animal Health and Diseases</b> (Lecture: M/W/F 12:30-1:20pm; offered spring only)	3
<b>ANSC 402 Animal Science Seminar</b> (Lecture: M 1:30-2:20; also offered spring)	1	<b>ANSC 390 Internship</b> (offered fall, spring or summer)	3
<b>A ST 311G Statistical Applications</b> (offered at various times; spring, summer, and fall)	3	<b>Free Elective OR PHYS 212G General Physics II (3 credits) + PHYS 212GL General Physics II Lab (1 credit)</b> (Lecture: Tue/Th 1:10-2:25pm; Lab: offered at various times) *May be required by some Vet schools	(3-4)
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>15-19</b>

135-141 total credits

# Department of Animal and Range Sciences, NMSU

## Flow Chart for Bachelor of Science in Animal Science Example Degree Plan *Companion Animal Science Emphasis*



→ Course prerequisite

### Freshman Year Course Prerequisites

CHEM 111G – Prerequisite – grade of C or better in Math 120 OR adequate math placement exam score

- B or better in 2<sup>nd</sup> semester high school chemistry OR grade of C or better in CHEM 100 Or ACT score of at least 22

ENG 111G – Prerequisite – ACT standard score in English of 16 or higher OR a Compass score of 76 or higher

MATH 120G – Prerequisite – adequate score on math placement exam

MATH 121G – Prerequisite – grade of C or better in Math 120 OR adequate score on math placement exam