

Note: No Major or Support courses may be selected as credit/no credit.

MAJOR COURSES		
ASCI 101	Introduction to the Animal Sciences	2
ASCI 112	Principles of Animal Science	4
ASCI 211	Meat Science	4
ASCI 220	Introductory Animal Nutrition and Feeding	4
ASCI 229	Anatomy and Physiology of Farm Animals	4
ASCI 290 or ASCI 490	Animal Production & Mgmt Enterprise Advanced Animal Production and Management Enterprise	4
ASCI 302	Animal Genetics	4
ASCI 304	Animal Genomics	3
ASCI 340	Animal Welfare and Ethics	4
ASCI 351	Reproductive Physiology	4
ASCI 363	Undergraduate Seminar	2
ASCI 477 or ASCI 478 or ASCI 479	Senior Project - Research Experience in Animal Sci Senior Project - Advanced Internship Experience in Animal Science Senior Project - Current Topics in Animal Science	3
<b>Production Courses- Select one from each:</b>		12
<b>Ruminants:</b> ASCI 221 OR ASCI 223 or DSCI 230		
<b>Nonruminants:</b> ASCI 222 or ASCI 225		
<b>Companion Animals or Range Mgmt:</b> ASCI 224 or ASCI 227 or ASCI 239		
<b>Biochemistry/Chemistry- Select from the following:</b>		4-5
ASCI 319	Physiological Chemistry of Animals (Upper-division B) <sup>1</sup>	
CHEM 314	Biochemistry: Fundamentals and Applications (Upper-division B) <sup>1</sup>	
CHEM 369	Biochemical Principles (Upper-division B) <sup>1</sup>	
<b>Nutrition- Select from the following:</b>		4
ASCI 346	Equine Nutrition	
ASCI 350	Nonruminant Nutrition	
ASCI 355	Ruminant Nutrition	
ASCI 419	Animal Metabolism and Nutrition	
DSCI 301	Dairy Cattle Nutrition	
<b>Physiology- Select from the following:</b>		4-5
ASCI 333	Equine Reproduction	
ASCI 366	Veterinary Pharmacology	
ASCI 405	Domestic Livestock Endocrinology	
ASCI 406	Applied Animal Embryology & Assisted Reproduction	
ASCI 438	Systemic Animal Physiology	
ASCI 440	Immunology and Diseases of Animals	
ASCI 455	Advanced Equine Reproductive Technologies	
DSCI 321	Lactation Physiology	
DSCI 330	Artificial Insemination and Embryo Biotechnology	
<b>Approved Electives</b> <sup>2,3</sup>		16
Select 16 units of any course with an ASCI or DSCI prefix at the 300-500 level.		
<b>Total Major Units</b>		<b>82-84</b>
SUPPORT COURSES		
BIO 111 or BIO 161	General Biology (B2 & B3) <sup>1</sup> Introduction to Cell and Molecular Biology	4
CHEM 127	Gen CHEM for Ag & Life Science I (B1 & B3) <sup>1</sup>	4
CHEM 128	Gen CHEM for Ag & Life Science II	4
CHEM 216 or CHEM 312	Organic Chemistry I <sup>4</sup> Organic Chemistry: Fundamentals and Applications	5
MATH 118 or MATH 161	Precalculus Algebra (B4) <sup>1,5</sup> Calculus for the Life Sciences I	4
STAT 218	App. Statistics for the Life Sciences (GE Electives) <sup>1</sup>	4
<b>Total Support Units</b>		<b>25</b>

GENERAL EDUCATION		
<b>Area A English Language Communication and Critical Thinking</b>		
A1	Oral Communication	4
A2	Written Communication	4
A3	Critical Thinking	4
<b>Area B Scientific Inquiry and Quantitative</b>		
B1	Physical Science (4 units in Support) <sup>1</sup>	0
B2	Life Science (4 units in Support) <sup>1</sup>	0
B3	One lab taken with either a B1 or B2 course	
B4	Mathematics/Quantitative Reasoning (4 units in Support) <sup>1</sup>	0
Upper-Division B (4 units in Major) <sup>1</sup>		0
<b>Area C Arts and Humanities</b>		
<b>Lower-division courses in Area C must come from three different subject prefixes.</b>		
C1	Arts	4
C2	Humanities	4
Lower-Division C Elective - Select a course from either C1 or C2		4
Upper-Division C		4
<b>Area D Social Sciences - Select courses in Area D</b>		
D1	American Institutions (Title 5, Section 40404 Requirement)	4
D2	Lower-Division D	4
Upper-Division D		4
<b>Area E Lifelong Learning and Self-Development</b>		
Lower-Division E		4
<b>Area F Ethnic Studies</b>		
F	Ethnic Studies	4
<b>GE Electives in Areas B, C, and D</b>		
Select courses from two different areas; may be lower-division or upper-division courses.		
GE Electives (4 units B in Support) <sup>1</sup>		0
GE Electives (Area C or D)		4
<b>Total GE Units</b>		<b>52</b>
<b>FREE ELECTIVES</b> <sup>6</sup>		<b>19-21</b>
4 units of free electives must be at the 300-500 level to ensure completion of the required minimum of 60 units of upper-division courses.		
<b>TOTAL DEGREE UNITS</b>		<b>180</b>
<b>FOOTNOTES</b>		
<sup>1</sup> Required in Major or Support; also satisfies General Education (GE) requirement.		
<sup>2</sup> If a course is taken to meet a Major or Support requirement, it cannot be double-counted in the Approved Elective category.		
<sup>3</sup> The Approved Elective category may include a maximum of 6 units between ASCI 339 or ASCI 490.		
<sup>4</sup> CHEM 212 accepted in lieu of CHEM 312, but not for upper-division credit.		
<sup>5</sup> MATH 115 or MATH 116, and MATH 117 substitute for MATH 118.		
<sup>6</sup> Students should consult a faculty advisor before electing Credit/No Credit grading for any course. Courses elected for Credit/No Credit grading may not be recognized by post-graduate academic programs. If a 500-level course is used to satisfy their free elective requirements it cannot be used towards a graduate program.		