

BS ANIMAL SCIENCE

2019-2020

*updated
04.02.19*

Units Required 180

NOTE: This document can be used as a compact display of courses and other curricular requirements at the time of publication of the 2019-2020 catalog. The Degree Progress Report must be used to track students' progress in all degree requirements, throughout their Cal Poly career.

Note: No major or support courses may be taken selected as credit/no credit.

MAJOR COURSES (88-93)	<i>Units</i>
ASCI 101 Intro to the Animal Sci	2
ASCI 112 Principles of Animal Sci	4
ASCI 211 Meat Science	4
ASCI 220 Intro Animal Nutr & Feed	4
ASCI 229 Anat/Phys Farm Animals	4
ASCI 290 or 490 Enterprise	4
ASCI 304 Animal Genomics	3
ASCI 351 Reproductive Physiology	4
ASCI 363 Undergraduate Seminar	2
ASCI 477 or 478 or 479	3
<i>Production courses: (select one from each)</i>	
Ruminants: ASCI 221 or ASCI 223 or DSCI 230	
Nonruminants: ASCI 222 or ASCI 225	
Companion Animals: ASCI 224 or 227 or 239	12

From the Biochemistry/Chemistry, Nutrition, Physiology, Technology/Management and Approved Electives courses, 26-32 units must be upper-division, depending on the number of upper-division units taken in Support courses.

<i>Biochemistry/Chemistry (select one)</i> ASCI 320, CHEM 313, CHEM 371	4/5
<i>Nutrition (select one)</i> ASCI 346, 350, 355, 420; DSCI 301	3/4
<i>Physiology (select one)</i> ASCI 333, 347, 366, 405, 406, 438, 440, 455; DSCI 321, 330	3-5
<i>Technology/Management (select two)</i> AG/ASCI 360 or AG 450; ASCI 310, 311, 312, 315, 325, 330, 340, 342, 366, 370, 372, 403, 406, 407, 410, 415, 440, 450, 455, 460, 465, 484	8-9
Approved Electives <i>Select courses from the list of approved electives; see Approved Electives Guide on reverse. Depending on course selections in other areas, up to 14 units of 300-400 level courses may be required. Please consult with faculty and/or academic advisor to verify Upper Division unit requirements.</i>	24

SUPPORT COURSES (29-30)

BIO 111 or BIO 161 (B2 & B4) ¹	4
BIO 302 or BIO 303 or BIO 351.....	4/5
CHEM 127 Chem for Ag and Life Sci I (B3&B4) ¹	4
CHEM 128 Chem for Ag and Life Sci II.....	4
CHEM 312 or CHEM 216 ²	5
MATH 118 ³ or MATH 161 (B1) ¹	4
STAT 218 Applied Stat/Life Sci (B1) ¹	4

GENERAL EDUCATION (GE)

72 units required, 16 of which are listed in Major/Support.

Minimum of 12 units required at the 300 level.

Area A Communication

A1 Expository Writing	4
A2 Oral Communication	4
A3 Reason, Argument, & Writing.....	4

Area B Math, Science, and Quantitative Reasoning

B1 Math/Statistics (8 units in Support) ¹	
B2 Life Science (4 units in Support) ¹	
B3 Physical Science (4 units in Support) ¹	
B4 One lab taken with either a B2 or B3 course	
B7 Upper-division elective	4

(formerly Area F)

Area C Arts and Humanities

C1 Literature	4
C2 Philosophy	4
C3 Fine/Performing Arts	4
C4 Upper-division elective	4
C1-C5 Elective.....	4

Area D Society and the Individual

D1 The American Experience (40404)	4
D2 Political Economy	4
D3 Comparative Social Institutions	4
D5 Upper-division elective	4

Area E Lifelong Learning and Self-Development

(formerly Area D4)	4
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FREE ELECTIVES 1-7

¹ Required in Support; also satisfies GE

² CHEM 212 accepted in lieu of CHEM 312, but not for upper division credit.

³ MATH 116 and MATH 117 substitute

OTHER DEGREE REQUIREMENTS:

- **Cal Poly, Higher Ed, and Major GPA must all be at least 2.00**
- **For students admitted Fall 2016 and after, a grade of C- or higher is required in GE A1, A2, A3, and one GE B1 course**

All students must complete:

- **United States Cultural Pluralism Requirement**
- **Graduation Writing Requirement**
- **60 units Upper Division (any 300-400 level classes)**
- **Upper Division units in the Major: 27**
- **Residency Requirements: See Degree Progress Report for details**

Approved Electives Guide

Approved electives have been organized by area of interest to guide students in their selections. Any course on this list can be used as an elective; courses not on this list can serve as an elective but require faculty advisor approval. Consultation with a faculty advisor is recommended to ensure that the required number of upper-division units is met. Also, bear in mind that selection may impact pursuit of post-baccalaureate studies and/or goals.

Approved Career Elective Areas..... 24

Pre-Veterinary Medicine

ASCI 227⁴, 290/490⁵, 310⁴, 315⁴, 320⁴, 333⁴, 339⁵,
340, 347⁴, 366⁴, 405⁴, 420⁴, 438⁴, 440⁴;
BIO 160, 161⁴, 162, 303⁴, 351⁴, 361, 363;
CHEM 129, 217, 218, 220, 223, 371⁴, 372;
DSCI 330⁴;
MATH/HNRS 141 or MATH 161⁴ (B1);
MATH/HNRS 142 or MATH 162 (B1);
MCRO 221;
PHYS 121, 122, 123, 132, 133, 141, 200

Biotechnology

ASCI 290/490⁵, 339⁵, 366⁴, 403⁴, 405⁴,
406⁴, 407, 440⁴;
BIO 161⁴, 162, 231, 232, 351⁴, 410;
BIO/CHEM 202, 475, 476;
CHEM 129, 216⁴, 217, 220, 373, 377, 474, 477;
MCRO 221, 224, 225, 320, 421

Food Animal Production

AEPS 150
AG/ASCI 360⁴ (B7);
AGB 322;
ASCI 212, 221⁴, 222⁴, 223⁴, 225⁴, 226, 260
290⁵, 311⁴, 312⁴, 339⁵, 340, 450⁴;
BIO 427;
DSCI 230, 241, 301, 330;
NR 142; NR/LA 218;
SPAN 101;
SS 120

Comparative Animal Biology Studies

ASCI 203, 290/490⁵, 321, 339⁵;
BIO 162, 227, 263, 327, 442, 444;
PSY 458;
MSCI 324, 330

Equine Science

ASCI 214, 224⁴, 228, 265, 290/490⁵, 315⁴,
324, 333⁴, 339⁵, 344, 345, 346⁴,
347⁴, 455⁴
AG 243

Poultry Management

ASCI 225⁴, 290/490⁵, 325⁴, 330⁴, 339⁵, 342, 350⁴, 415⁴, 440⁴;
AGB 310;
BUS 207, 212, 346;
ENGL 310;
FSN 275, 334, 335, 370

Rangeland Resource Management

AG/ASCI 360⁴ (B7);
ASCI 239, 290, 311⁴, 370, 372, 460, 465, 490⁵;
BIO 263, 435;
NR 306, 320, 335, 418;
NR/CRP 404; NR/LA 218;
SS 120, 130, 321

Meat Science

ASCI 290, 339⁵, 415⁴, 425, 484, 490⁵;
FSN 125, 275, 370;
MCRO 221, 421

Agribusiness

AGB 212, 301, 310, 312, 313, 322;
AGB 214 or BUS 212
ASCI 212, 260, 290⁵, 311⁴, 412, 415⁴, 484

4 If any of these courses is taken to meet a major/support requirement, it cannot be double-counted as an approved elective.

5 A maximum of 6 units of CR/NC courses may be counted toward approved electives.