

2011-13 Cal Poly Catalog**Animal Science Department****BS ANIMAL SCIENCE**

- ☐ 60 units upper division ☐ GWR
 ☐ 2.0 GPA ☐ USCP

* = Required in Support; also satisfies GE

Note: No major or support courses that are graded
 may be taken 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 Intro. Animal Nutrition and Feeding	4
ASCI 229 Anatomy/Phys of Farm Animals.....	4
ASCI 290 Animal Production and Management Enterprise/ASCI 490 Advanced Animal Production and Management Enterprise	4
ASCI 304 Animal Genomics	3
ASCI 320/CHEM 313/CHEM 371	4-5
ASCI 351 Reproductive Physiology.....	4
ASCI 477 or ASCI 478 or ASCI 479 Senior Project	3
ASCI 363 Undergraduate Seminar	2
Production courses (select one from each of the three categories):.....	12
<u>Ruminants</u> : ASCI 221 Intro. Beef Prod. (4) or ASCI 223 Syst. Sheep Prod. (4)	
<u>Nonruminants</u> : ASCI 222 Syst. Swine Prod. (4) or ASCI 225 Intro. Poultry Mgmt (4)	
<u>Companion Animals</u> : ASCI 224 Equine Science (4) or ASCI 227 Companion Animal Sci. (4)	
Nutrition (select one).....	3-4
ASCI 346, 350, 355, 420; DSCI 301	
Physiology (select one).....	3-5
ASCI 333, 347, 366, 405, 406, 438, 440, 455; DSCI 321, 330 (2/2/17)	
Technology/Management (select two).....	6-9
AG 360/AG 450; ASCI 310, 311, 312, 315, 325, 329, 330, 342, 370, 384, 403, 406, 407, 410, 415, 440, 450, 455 (3/24/14) (12/11/14)(2/2/17)	
Approved electives.....	27-34
Select courses from a career elective area (CEA); see Approved Electives Guide, below.	

96**SUPPORT COURSES**

BIO 111 General Biology or BIO 161 Intro to Cellular and Molecular Biology (B2 & B4)*.....	4
BIO 302/BIO 303/BIO 351	4/5
CHEM 111/127 Survey of Chemistry (B3&B4)*.....	5/4
¹ CHEM 312 Survey of Organic Chemistry or CHEM 316 Organic Chemistry (transfer equivalents CHEM 212, 216)	5
MATH 118 Pre-Calculus Algebra (MATH 116 & 117 substitute) or MATH 161 Calculus Life Sciences I (B1)*	4
STAT 218 Applied Statistics/Life Sciences (B1)*	4

25-27**GENERAL EDUCATION (GE)**

72 units required, 16 of which are specified in Support.

→See page 39 for complete GE course listing.

→Minimum of 12 units required at the 300 level.

Area A Communication (12 units)

A1 Expository Writing	4
A2 Oral Communication	4
A3 Reasoning, Argumentation, and Writing.....	4

Area B Science and Mathematics (no add'l units req'd)

B1 Mathematics/Statistics * 8 units in Support	0
B2 Life Science * 4 units in Support.....	0
B3 Physical Science * 4 units in Support	0
B4 One lab taken with either a B2 or B3 course	

Area C Arts and Humanities (20 units)

C1 Literature	4
C2 Philosophy	4
C3 Fine/Performing Arts	4
C4 Upper-division elective	4
Area C elective (Choose one course from C1-C4)	4

Area D/E Society and the Individual (20 units)

D1 The American Experience (40404)	4
D2 Political Economy	4
D3 Comparative Social Institutions	4
D4 Self Development (CSU Area E)	4
D5 Upper-division elective	4

Area F Technology Elective (upper division) (4 units)...**56****FREE ELECTIVES.....****1-3****180****Approved Electives Guide**

Approved electives have been categorized by career area to guide students in their selections. Advisor approval of electives is not required, but consultation with an advisor is recommended. Bear in mind that selection may impact pursuit of post-baccalaureate studies and/or goals.

Approved Career Elective Areas 27-34

Select Career Elective Area (CEA) of choice:

Pre-Veterinary Medicine Career Elective Area

a) Core (26 units):

BIO 162;

¹CHEM 128, 129, 317 or 217 and 220;

PHYS 121, 122;

b) Select 1-8 units from:

ASCI 290/490^{††}, 310[†], 315[†], 320[†], 333[†],

339^{††}, 347[†], 366[†], 405[†], 420[†], 438[†], 440[†];

BIO 161[†], 303[†], 351[†];

¹CHEM 318 or 218, 371[†], 372; DSCI 330[†];

MATH/HNRS 141/MATH 161[†] (B1);

MATH/HNRS 142/MATH 162 (B1);

MCRO 221; PHYS 123 (4/11/15) (12/1/15)

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

^{††} A maximum of 6 units of CR/NC courses may be counted toward the degree.

¹ Students substituting 200-level organic chemistry will need extra units of upper-division to meet 60 units of undergraduate requirements for degree. Select approved electives accordingly. (12/1/15)

Biotechnology Career Elective Area

ASCI 290/490^{††}, 339^{††}, 366[†], 403[†], 405[†],
 406[†], 407, 440[†]; (3/18/16)
 BIO 161[†], 162, 351[†],
 BIO/CHEM 375, 476;
¹CHEM 128, 129, 313[†], 316[†], 317 or 217 and
 220, 373, 377, 474, 477, 478; (4/11/15) (12/1/15)
 MCRO 221, 224, 225;
 SCM 201

Food Animal Production Career Elective Area

AG 360[†] (GE Area F) or 450[†];
 AGB 321, 322, 401 (USCP);
 ASCI 221[†], 222[†], 223[†], 225[†], 226, 290/490^{††},
 311[†], 312[†], 329[†], 339^{††}, 355[†], 410[†], 450[†];
 BIO 427;
 CRSC 123;
 DSCI 230, DSCI 301[†];
 NR 142; NR/LA 318;
 SPAN 101;
 SS 121 (4/11/15)

Comparative Animal Biology Studies Career Elective Area

ASCI 203, 290/490^{††}, 321, 339^{††};
 BIO 113, 162, 227, 263, 325, 327;
 PSY 458;
 ZOO 321, 323, 341, 425, 437

Equine Science Career Elective Area

ASCI 214, 224[†], 228, 265, 290/490^{††}, 315[†],
 324, 329[†], 333[†], 339^{††}, 344, 345, 346[†],
 347[†], 455[†]

Poultry Management Career Elective Area

- a) Core (23 units):
 ASCI 225[†], 325[†], 330[†], 342, 350[†], 415[†];
 b) Select 4-11 units from:
 AGB 310, 409;
 ASCI 290/490^{††}, 339^{††}, 440[†];
 BUS 207, 212, 346;
 ENGL 310;
 FSN 270, 275, 334, 335

Rangeland Resource Management Career Elective Area

AG 360[†] (GE Area F);
 ASCI 290/490^{††}, 311[†], 329[†];
 BIO 263, 435;
 NR 306, 320, 335, 418;
 NR/CRP 404; NR/LA 318;
 SS 121, 321

Meat Science Career Elective Area

ASCI 216, 290/490^{††}, 339^{††}, 384[†], 415[†],
 425, 480;
 FSN 125, 270, 275;
 MCRO 221, 421

Agribusiness Career Elective Area

- a) Core (28 units):
 AGB 212, 301, 310, 312, 322, 401 (USCP);
 AGB 214/AGB 321/BUS 212
 b) Select 0-6 units from:
 AGB 313, 315;
 ASCI 290/490^{††}, 311[†], 329[†], 384[†], 415[†]

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

^{††} A maximum of 6 units of CR/NC courses may be counted toward the degree.

¹ Students substituting 200-level organic chemistry will need extra units of upper-division to meet 60 units of undergraduate requires for degree. Select approved electives accordingly. (12/1/15)