### BS ANIMAL SCIENCE

#### 2015-2017

**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 2015-2017 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 (90-97)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASCI 101 Intro to the Animal Sci</td>
<td>2</td>
</tr>
<tr>
<td>ASCI 112 Principles of Animal Sci</td>
<td>4</td>
</tr>
<tr>
<td>ASCI 211 Meat Science</td>
<td>4</td>
</tr>
<tr>
<td>ASCI 220 Intro Animal Nutr &amp; Feed</td>
<td>4</td>
</tr>
<tr>
<td>ASCI 229 Anat/Phys Farm Animals</td>
<td>4</td>
</tr>
<tr>
<td>ASCI 290 Enterprise</td>
<td>4</td>
</tr>
<tr>
<td>ASCI 351 Reproductive Physiology</td>
<td>4</td>
</tr>
<tr>
<td>ASCI 363 Undergraduate Seminar</td>
<td>2</td>
</tr>
<tr>
<td>ASCI 477/478/479 Senior Project</td>
<td>3</td>
</tr>
</tbody>
</table>

**Production courses: (select one from each)**
- **Ruminants**: ASCI 221 or ASCI 223
- **Nonruminants**: ASCI 222 or ASCI 225
- **Companion Animals**: ASCI 224 or 227

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.

**Biochemistry/Chemistry (select one)**
- ASCI 320, CHEM 313, CHEM 371 4/5

**Nutrition (select one)**
- ASCI 346, 350, 355, 420 3/4

**Physiology (select one)**
- ASCI 333, 347, 366, 405, 406, 438, 440 3-5

**Technology/Management (select two)**

**Approved Electives**
- Select courses from a career elective area(CEA); see reverse for list. (max 6 units of CR/NC courses) 28

#### SUPPORT COURSES (25-27)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 111 or BIO 161 (B2 &amp; B4)</td>
<td>4</td>
</tr>
<tr>
<td>BIO 302/BIO 303/BIO 351</td>
<td>4/5</td>
</tr>
<tr>
<td>CHEM 111/127 Sur of Chem (B3&amp;B4)</td>
<td>5/4</td>
</tr>
<tr>
<td>CHEM 312 or CHEM 216</td>
<td>5</td>
</tr>
<tr>
<td>MATH 118 or MATH 161 (B1)</td>
<td>4</td>
</tr>
<tr>
<td>STAT 218 Applied Stat/Life Sci (B1)</td>
<td>4</td>
</tr>
</tbody>
</table>

#### GENERAL EDUCATION (GE)

- **56 units required, 16 of which are specified in 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 Science and Mathematics (no add'l units req'd)**
- 16 units are listed in Support

**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/E Society and the Individual**
- 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 (upper div)......................... 4

**FREE ELECTIVES ........................................ 0-9**

1. ASCI 490 may be substituted for ASCI 290.
2. Required in Support; also satisfies GE
3. CHEM 212 accepted in lieu of CHEM 312, but not for upper division credit.
4. 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 categorized by career area to guide students in their selections. Advisor approval of electives is not required, but consultation with an 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...................... 28
Select Career Elective Area (CEA) of choice:

Pre-Veterinary Medicine Career Elective Area
a) Core (25 units):
   BIO 162;
   CHEM 128, 129, 217, 220;
   PHYS 121, 122;
b) Select 3 units from the following:
   ASCI 227†, 290/490††, 310†, 315†, 320†, 333†, 339††, 347†, 366†, 405†, 420†, 438†, 440†;
   BIO 160, 161†, 303†, 351†, 361;
   CHEM 218, 223, 371†, 372;
   DSCI 330†;
   MATH/HNRS 141/MATH 161† (B1);
   MATH/HNRS 142/MATH 162 (B1);
   MCRO 221;
   PHYS 123, 131, 132, 133, 141, 200

Biotechnology Career Elective Area
   ASCI 290/490††, 339††, 366†, 403†, 405†, 406†, 407, 440†;
   BIO 161†, 162, 202, 231, 232, 351†,
   BIO/CHEM 475, 476;
   CHEM 128, 129, 216†, 217, 220, 373, 377, 474, 477, 478;
   MCRO 221, 224, 225

Food Animal Production Career Elective Area
   AEPS 150
   AG/ASCI 360† (GE Area F);
   AGB 322;
   ASCI 212, 221†, 222†, 223†, 225†, 226, 260
   290/490††, 311†, 312†, 329†, 339††, 450†;
   BIO 427;
   DSCI 230, 301, 330;
   NR 142; NR/LA 218;
   SPAN 101;
   SS 121

Comparative Animal Biology Studies Career Elective Area
   ASCI 203, 290/490††, 321, 339††;
   BIO 162, 227, 263, 327, 442;
   PSY 458;
   ZOO 321, 323, 341, 425

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 5 units from:
   AGB 310, 390;
   ASCI 290/490††, 339††, 440†;
   BUS 207, 212, 346;
   ENGL 310;
   FSN 275, 334, 335, 370

Rangeland Resource Management Career Elective Area
   AG/ASCI 360† (GE Area F);
   ASCI 290/490††, 311†, 329†, 370, 460;
   BIO 263, 435;
   NR 306, 320, 335, 418;
   NR/CNP 404; NR/LA 218;
   SS 121, 321

Meat Science Career Elective Area
   ASCI 290/490††, 339††, 384†, 415†,
   425;
   FSN 125, 275, 370;
   MCRO 221, 421

Agribusiness Career Elective Area
   AGB 212, 301, 310, 312, 313, 315, 322,
   AGB 214/BUS 212
   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 approved electives.