2011-13 Cal Poly Catalog

Agricultural Education & Communication Department

BS AGRICULTURAL SCIENCE

- 60 units upper division
- 2.0 GPA
- USCP
- W = Required in Support; also satisfies GE

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

MAJOR COURSES

AGED 102 Intro. to Agricultural Education or AGC 102 Orientation to Agricultural Communication ........................................ 2
AGED 404 Agricultural Leadership ........................................ 3
AGC 426 Presentation Methods in Agricultural Communication or EDUC 412 Schooling in a Democratic Society ................. 4
AGED 460 Research Methodology in Agricultural Education and Communication ........................................... 1
AGED/AGC 461 Senior Project ........................................ 1
AGED/AGC 462 Senior Project ........................................ 1
AG 360 (4) or ASCI 476 (4) or AG 450 (4) or AG 452 (4) or AGC 470 (4) (12/7/16) .......................... 3-4
AG 202 Communication, Leadership and Management Skills for Agribusiness ........................................ 4
AG 301 Food and Fiber Marketing ........................................ 4
AG 401 Managing Cultural Diversity in Agricultural Labor Relations (USCP) or AG 369 (8/11/15) ................. 4
ASCI 112 Principles of Animal Science .................................... 4
ASCI 225 Introduction to Poultry Management ......................... 4
BRAE 121 Agricultural Mechanics ........................................ 2
BRAE 141 Agricultural Machinery Safety ................................ 3
CRSC 123/FRSC 230/VGSC 230/VGSC 190 ................................ 4
DSCI 230 General Dairy Husbandry ....................................... 4
2 DSCI 231 General Dairy Manufacturing (3) and DSCI 232 Gen Dairy Mfg Lab (1), or FSN 230 Elements of Food Processing (4) ........................................ 4
EHS 230 Environmental Horticulture .................................... 4
HCS 120 Principles of Horticulture & Crop Science ................. 4
SS 121 Introductory Soil Science ........................................ 4
Concentration courses (see below) ..................................... 22

86

SUPPORT COURSES

CHEM 110 World of Chemistry (B3 & B4)* .................................. 4
BRAE 340 Irrigation Water Management or BRAE 348 Energy for a Sustainable Society (Area F)* (2/28/12) ...... 4
MATH 118 Pre-Calculus Algebra (B1)* (MATH 116 & MATH 117 substitute) ........................................ 4
NR 308 Fire and Safety or NR 323 Human Dimensions in Natural Resources Management (DS)* .................................... 4

1 Approved electives ..................................................... 26
12-20 units must be 300-400 level depending on concentration. Career area programs may be selected from teaching agriculture, agricultural communication, or individualized:

Teaching Agriculture

BUS 212 or AGB 214 or AGB 321 (4), (3/16/15)
AGED 330 (6) or AGED 303 (4) & AGED 350 (2),
AGED 410 (2), (8/29/13)

Select 8 units from the following:

EDUC 410 (4), EDUC 412 (4), EDUC 414 (4),
EDUC 416 (3) & EDUC 417 (1), EDUC 418 (3) &
EDUC 419 (1) (3/15/17)

Plus six units from any of the following (if BUS 212 is taken, then 4 units of 300-400 required):

Any course with a prefix in AG, AGB, ASCI, BRAE, CRSC, DSCI, ERSC, FRSC, FSN, HCS, NR, PPSC, RPTA, SS, VGSC, WVIT;
AGED 220; BUS 207; IME 142,
ECON 201, 222; KINE 250, 255, 305;
PHYS 121, 131

Agricultural Communications

AGC 339 (6), AGC 407 (4); JOUR 203 (4),
JOUR 205 (4), COMS 301 (4),
Plus one of the following:

ENGL 310; GRC 377;
JOUR 312, 331; RPTA 320, 420

Individualized

Courses that meet the requirements leading to a minor at Cal Poly. 12 to 20 units must be at the 300-400 level to meet graduate requirements.

GENERAL EDUCATION (GE)

72 units required, 16 of which are specified in Support.
Note: 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 (8 units)

B1 Mathematics/Statistics * 4 units in Support plus
B2 Life Science .......................................................... 4
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)

Area D/E Society and the Individual (16 units)

D1 The American Experience (40404)
Note: POLS 112 is required for teaching credential candidates .......................... 4

1 Consultation with advisor is recommended prior to selecting approved electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.
2 DSCI 231 taken for 4 units may substitute for DSCI 231 (3) and DSCI 232 (1) requirement. (1/7/16)
<table>
<thead>
<tr>
<th>Area D</th>
<th>Courses</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Political Economy</td>
<td>D2 Political Economy ....................................</td>
<td>4</td>
</tr>
<tr>
<td>Comparative Social Institutions</td>
<td>D3 Comparative Social Institutions  ..................</td>
<td>4</td>
</tr>
<tr>
<td>Self Development (CSU Area E)</td>
<td>D4 Self Development (CSU Area E)</td>
<td>4</td>
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<tr>
<td>Note: KINE 250 is required for teaching credential candidates</td>
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<td>4</td>
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<tr>
<td>Upper-division elective *4 units in Support.</td>
<td>D5 Upper-division elective *4 units in Support.</td>
<td>0</td>
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</tbody>
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**Area F Technology Elective (upper division)**

* 4 units in Support........................................... 4

**FREE ELECTIVES**

Note: Electives within the College (CAFES), excluding AGED courses, are required for teaching credential candidates. 8

**CONCENTRATIONS (select one)**

**Agricultural Engineering Technology Concentration**

BRAE 133 Engineering Design Graphics ........................... 1
BRAE 237 Intro to Engineering Surveying ...................... 2
BRAE 321 Agricultural Safety .................................. 3
BRAE 335 Internal Combustion Engines .......................... 4
Approved electives (3 units at 300–400 level) ............. 12

Select 12 units from the following:

BRAE 129, 142, 151, 152, 231, 239, 240, 301, 324, 331, 337, 348, 438, 439, 481

Total: 22

**Agricultural Supplies and Services Concentration**

AGB 212 Agricultural Economics ................................. 4
AGB 214 Agribusiness Financial Accounting .................. 4
AGB 310 Agribusiness Credit and Finance .................... 4
AGB 312 Agricultural Policy .................................. 4
Approved electives .............................................. 6

Select 6 units from the following:

AGB 303, 313, 314, 318, 322, 323, 331, 370, 404, 409, 410, 440, 443, 445, 455

Total: 22

**Animal Science Concentration**

Select two: ASCI 221, 222, 223 .................................. 4, 4
ASCI 220 Intro Animal Nutrition and Feeding
or DSCI 101 Dairy Feeds and Feeding ........................... 4
DSCI 330 Artificial Insemination and Embryo Biotechnology  | 4
Approved electives .............................................. 6

Select 6 units from the following:

ASCI 311, 326, 329, 384, 412, 413, 415, 425, 430, 476, 480;
ASCI 305, 325, 330, 342;
DSCI 301, 333, 435

Total: 22

**Crop and Soil Science Concentration**

ERSC 202 Soil Erosion and Water Conservation .... 4
CRSC 123/FRSC 230/VGSC 230/VGSC 190
(Select course not taken in major column) ................. 4
PPSC 311 Agricultural Entomology ............................. 4
SS 221 Fertilizers .............................................. 4
Approved electives .............................................. 6

Select 6 units from the following:

CRSC 333, 445;
FRSC 342;
HCS 421;
VGSC 423, 424

Total: 22

**Forestry and Natural Resources Concentration**

BIO 227 Wildlife Conservation Biology ....................... 4
NR 142 Environmental Management ................................ 3
NR 208 Dendrology ............................................... 4
NR 306 Natural Resource Ecology and Habitat Management  | 4
Approved electives .............................................. 7

Select 7 units from the following:

NR 312, 320, 321, 402;
NR/CRP 404, 408;
NR/ES 308 or NR 323;
NR/ES 360;
NR/GEOG/LA 317;
NR/LA 318

Total: 22

**Ornamental Horticulture Concentration**

EHS 123 Landscape Installation and Maintenance .................. 4
HCS 124 Plant Propagation ..................................... 4
EHS 438 Teaching Methods in Environmental Horticulture .......... 4
Approved electives .............................................. 10

Select 10 units from the following:

EHS 324, 332, 343, 402, 421, 424, 433, 434, 437; Corrected effective Summer 2011
EHS/RPTA 430

Total: 22

1 Consultation with advisor is recommended prior to selecting approved electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.

2 May substitute any upper division AEPS or EHS coursework for 4 units. (8/10/16)