

**2011-13 Cal Poly Catalog****Agricultural Education & Communication  
Department****BS AGRICULTURAL SCIENCE**

☐ 60 units upper division ☐ GWR

☐ 2.0 GPA ☐ USCP

\* = 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
AGB 202 Communication, Leadership and Management Skills for Agribusiness .....	4
AGB 301 Food and Fiber Marketing.....	4
AGB 401 Managing Cultural Diversity in Agricultural Labor Relations (USCP) or AGB 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
<sup>2</sup> 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
	<b>86</b>

**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)*.....	4
(MATH 116 & MATH 117 substitute)	
NR 308 Fire and Safety or NR 323 Human Dimensions in Natural Resources Management (D5)*.....	4
<sup>1</sup> 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.**42****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 (8 units)**

B1 Mathematics/Statistics * 4 units in Support plus	4
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)	4

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

D1 The American Experience (40404) Note: POLS 112 is required for teaching credential candidates .....	4
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<sup>1</sup> 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.<sup>2</sup> DSCI 231 taken for 4 units may substitute for DSCI 231 (3) and DSCI  
232 (1) requirement. (1/7/16)

D2 Political Economy .....	4
D3 Comparative Social Institutions .....	4
D4 Self Development (CSU Area E)	
Note: KINE 250 is required for teaching credential candidates.....	4
D5 Upper-division elective *4 units in Support.	0
<b>Area F Technology Elective (upper division)</b> * 4 units in Support.....	0
	<b>56</b>

**FREE ELECTIVES**

Note: Electives within the College (CAFES), excluding AGED courses, are required for teaching credential candidates .....	<b>8</b>
	<b>192</b>

**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
<sup>1</sup> Approved electives (3 units at 300–400 level) .....	12
<i>Select 12 units from the following:</i> BRAE 129, 142, 151, 152, 231, 239, 240, 301, 324, 331, 337, 348, 438, 439, 481	
	<b>22</b>

**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
<sup>1</sup> Approved electives .....	6
<i>Select 6 units from the following:</i> AGB 303, 313, 314, 318, 322, 323, 331, 370, 404, 409, 410, 440, 443, 445, 455	
	<b>22</b>

**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
<sup>1</sup> Approved electives .....	6
<i>Select 6 units from the following:</i> ASCI 311, 326, 329, 384, 412, 413, 415, 425, 430, 476, 480; ASCI 305, 325, 330, 342; DSCI 301, 333, 435	
	<b>22</b>

**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
<sup>1</sup> Approved electives.....	6
<i>Select 6 units from the following:</i> CRSC 333, 445; FRSC 342; HCS 421; VGSC 423, 424	
	<b>22</b>

**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
<sup>1</sup> Approved electives.....	7
<i>Select 7 units from the following:</i> 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	
	<b>22</b>

**Ornamental Horticulture Concentration**

EHS 123 Landscape Installation and Maintenance	4
HCS 124 Plant Propagation .....	4
<sup>2</sup> EHS 438 Teaching Methods in Environmental Horticulture .....	4
<sup>1</sup> Approved electives.....	10
<i>Select 10 units from the following:</i> EHS 324, <del>337</del> , 343, 402, 421, 424, 433, 434, <del>437</del> ; <i>Corrected effective Summer 2011</i> EHS/RPTA 430	
	<b>22</b>

<sup>1</sup> 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.

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