2009-11 Cal Poly Catalog

Agricultural Education & Communication Department

BS AGRICULTURAL SCIENCE

- 60 units upper division
- 2.0 GPA
- * = 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/ASCI 476/AG 452 (2/28/11) ................................................. 3
- 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) ................................................................. 4
- ASCI 112 Principles of Animal Science ................................................. 4
- BRAE 121 Agricultural Mechanics ...................................................... 2
- BRAE 141 Agricultural Machinery Safety ............................................. 3
- CRSC 123 Forage Crops or CRSC 132 California Field Crops or HCS 120 (5/7/10) (4/7/11) ......................................................... 4
- DSCI 230 General Dairy Husbandry ..................................................... 4
- 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
- FRSC 230/VGSC 230/VGSC 190 .......................................................... 4
- PM 225 Introduction to Poultry Management ....................................... 4
- SS 121 Introductory Soil Science ......................................................... 4
- \textbf{Advisor approved electives} ......................................................... 0 \textsuperscript{1}

(\textit{Corrected 5/20/10})

Concentration courses (see below) ...................................................... 22

\textbf{Support Courses} ................................................................. 86 \textsuperscript{1}

- CHEM 110 World of Chem/Essentials (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
  \textit{(MATH 116 & MATH 117 substitute)}
- NR 308 Fire and Safety or NR 323 Human Dimensions in Natural Resources Management (D5)* ...................................................... 4

1 \textsuperscript{1} Approved electives \textit{(Corrected 5/20/10)} \textsuperscript{2} \textsuperscript{2} \textsuperscript{2}

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)
- EDUC 410 (4), EDUC 414 (4),

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, PM, PPSC, RPTA, SS, VGSC, VS, 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.

\textbf{General Education (GE)}

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

->See page 50 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

\textsuperscript{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.

\begin{flushright}
2009-2011 Cal Poly Catalog
\end{flushright}
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
Area F Technology Elective (upper division)
* 4 units in Support............................................. 0
56
FREE ELECTIVES
Note: Electives within the College (CAFES), excluding AGED courses, are required for teaching credential candidates....................... 8 - 0
192

CONCENTRATIONS (select one)

Agricultural Engineering Technology Concentration
BRAE 133 Engineering Design Graphics .................. 2
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) ........ 11
Select 11 units from the following:
BRAE 129, 142, 151, 152, 231, 239, 240, 301, 324, 331, 337, 348, 438, 439, 481
22

Agricultural Supplies and Services Concentration
AGB 212 Agricultural Economics............................ 4
AGB 310 Agribusiness Credit and Finance................. 4
AGB 312 Agricultural Policy................................... 4
\(^*\) Approved electives (2 units at 300-400 level) ......... 10
Select 10 units from the following:
AGB 214, 303, 313, 314, 318, 322, 323, 331, 370, 404, 409, 410, 427, 440, 443, 445, 455
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
\((5/27/10)\)
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/PM 305, 325, 330, 342;
DSCI 301, 333, 435
22

Crop and Soil Science Concentration
ERSC 202 Soil Erosion and Water Conservation .... 4
FRSC 230 California Fruit Growing or VGSC 230 Introduction to Vegetable Science
(Select course not taken in major column) .............. 4
PPSC 311 Agricultural Entomology ....................... 4
SS 221 Fertilizers............................................. 4
1 Approved electives ........................................... 6
Select 6 units from the following:
CRSC 333, 421, 445;
CRSC/FRSC 422;
FRSC 342;
HCS 421;
VGSC 423, 424
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
22

Ornamental Horticulture Concentration
EHS 123 Landscape Installation and Maintenance 4
HCS 120 Principles of Horticulture and Crop Science ................................................................. 4
HCS 124 Plant Propagation .................................. 4
EHS 438 Teaching Methods in Environmental Horticulture ......................................................... 4
\(^*\) Approved electives ...................................... 6
Select 6 units from the following:
EHS 324, 325, 337, 343, 402, 421, 422, 424, 433, 434;
EHS/RPTA 430
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.