

**2009-11 Cal Poly Catalog**  
**BioResource and Agricultural**  
**Engineering Dept**

**BS AGRICULTURAL SYSTEMS  
MANAGEMENT**

☐ 60 units upper division ☐ GWR

☐ 2.0 GPA ☐ USCP

\* = Required in Major/Support; also satisfies GE

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

**MAJOR COURSES**

BRAE 128 Careers in Bioresource/Agric. Engr.....	2
BRAE 129 Laboratory Skills and Safety .....	1
BRAE 133 Engineering Design Graphics .....	2
BRAE 141 Agricultural Machinery Safety .....	3
BRAE 142 Agric Power and Machinery Mgt .....	4
BRAE 151 CAD for Agricultural Engineering .....	1
BRAE 203 Agricultural Systems Analysis.....	3
BRAE 237 Intro to Engineering Surveying <i>or</i>	
BRAE 239 Engineering Surveying .....	2/4
BRAE 301 Hydraulic/Mechanical Power Systems	4
BRAE 321 Agricultural Safety .....	3
BRAE 324 Principles Agricultural Electrification...	4
BRAE 340 Irrigation Water Management.....	4
BRAE 342 Agricultural Materials .....	4
BRAE 343 Mechanical Systems Analysis .....	4
BRAE 348 Energy for a Sustainable Society	
(Area F)* .....	4
BRAE 418 Agricultural Systems Management I ....	4
BRAE 419 Agricultural Systems Management II ....	4
BRAE 425 Computer Controls for Agriculture .....	3
BRAE 432 Agricultural Buildings .....	4
BRAE 460 Senior Project Organization.....	1
BRAE 461 Senior Project I.....	2
BRAE 462 Senior Project II.....	2
<sup>1</sup> Approved electives .....	16

Select 16 units from the following, with a minimum of 8 units upper division, and no more than 4 units internship or enterprise:  
any AGB course eligible for the AGB minor;  
AGED 202, 330;  
any ASCI course except ASCI 101, 200, 212, 400, 412, 413, 425;  
BRAE 152, 236, 302, 331, 335, 344, 345, 405, 435, 438, 439, 440, 447, 448, 532;  
any DSCI course except DSCI 123;  
CHEM 212;  
any course in CM minor;  
any CRSC course;  
FNR 306, 318, 408, 416;  
FSN 125, 204, 230, 230, 270, 270, 275, 323, 330, 334, 341, 354, 444;  
any HCS course except HCS 110;  
IME 141, 142, 143, 144, 157, 319, 320;  
IT 260, 327, 330, 341;  
any PPSC course except PPSC 110;  
any PM course;

SS 221;  
any VGSC course;  
any WVIT course except WVIT 101

Total units for MAJOR COURSES: **81/83**

**SUPPORT COURSES**

AGB 212 Agricultural Economics .....	4
AGB 301 Food and Fiber Marketing .....	4
AGB 310 Agribusiness Credit and Finance.....	4
AGB 401 Managing Cultural Diversity in	
Agricultural Labor.....	4
BUS 212 Financial Accounting for Nonbusiness	
Majors or AGB 321 Farm Records .....	4
CHEM 110 World of Chemistry - Essentials <i>or</i>	
CHEM 111 Survey of Chemistry (B3 & B4)* ....	4/5
CSC 110/CSC 113/CSC 232.....	3
ENGL 148 Reasoning, Argumentation, and	
Professional Writing <i>or</i> ENGL 145 Reasoning,	
Argumentation and Writing (A3)* (6/23/09) .....	4
MATH 118 Pre-Calculus Algebra (B1)* .....	4
MATH 119 Pre-Calculus Trigonometry (B1)*.....	4
PHYS 121 College Physics I .....	4
SS 121 Introductory Soil Science .....	4
Animal or plant production course.....	3
Any ASCI, CRSC, DSCI, FRSC, HCS, PM,	
PPSC, VGSC course except for internship or	
enterprise courses.	

**50/51**

**GENERAL EDUCATION (GE)**

72 units required, 20 of which are specified in Major/Support.

→See page 50 for complete GE course listing.

→Minimum of 12 units required at the 300 level.

**Area A Communication (8 units)**

A1 Expository Writing .....	4
A2 Oral Communication .....	4
A3 Reasoning, Argumentation, and Writing * 4	
units in Support .....	0

**Area B Science and Mathematics (4 units)**

B1 Mathematics/Statistics * 8 units in Support ....	0
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 (20 units)**

D1 The American Experience (40404) .....	4
D2 Political Economy .....	4
D3 Comparative Social Institutions .....	4

<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.

D4 Self Development (CSU Area E) .....	4
D5 Upper-division elective .....	4
<b>Area F Technology Elective (upper division)</b>	
* 4 units in Major .....	<u>0</u>
	<b>52</b>
<b>FREE ELECTIVES</b> .....	<u>0</u>
	<b>183</b>