

**BS AGRICULTURAL SYSTEMS  
MANAGEMENT**

**2007-09 Cal Poly Catalog**

***BioResource and Agricultural Engineering Dept  
Agricultural Engineering Bldg. (08), Room 101  
(805) 756-2378, FAX: (805) 756-2626***

- 60 units upper division       GWR
- 2.0 GPA                               USCP

\* = Satisfies General Education requirement

**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
Advisor approved electives .....	16
Selected from: plant production, livestock pro- duction, food processing, environment information management, water/irrigation, agricultural waste management, process and manufacturing, or teaching agriculture	

**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/AG 250 .....	3
ENGL 148 Reasoning, Argumentation, and Professional Writing (A3)* .....	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

**50/51**

**GENERAL EDUCATION (GE)**

72 units required; 20 units are in Major/Support.  
→See page 56 for complete GE course listing.  
→Minimum of 12 units required at the 300-400 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
D4 Self Development (CSU Area E) .....	4
D5 Upper-division elective .....	4

**Area F Technology Elective (upper division)**

* 4 units in Major.....	0
	<b>52</b>

**ELECTIVES .....** **0**  
**183**