

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
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	

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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
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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
D4 Self Development (CSU Area E)	4
D5 Upper-division elective	4

Area F Technology Elective (upper division)

* 4 units in Major.....	0
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ELECTIVES

0

183