

2011-13 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	1
BRAE 141 Agricultural Machinery Safety	3
BRAE 142 Agric Power and Machinery Mgt.....	4
BRAE 151 CAD for Agricultural Engineering.....	1
BRAE 152 3-D Solids Modeling.....	1
BRAE 203 Agricultural Systems Analysis	3
BRAE 237 Intro to Engineering Surveying or	
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
¹ 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 102, 330; any ASCI course except ASCI 101, 200, 212, 400, 412, 413, 425; BRAE 200[†] 236, 302, 331, 335, 337, 344, 345, 400[†], 405, 434, 435, 438, 439, 440, 447, 448, 532; (4/19/12)(5/15/15) any DSCI course except DSCI 123; CHEM 212; any course in CM minor; any CRSC course; any FRSC course;

FSN 125, 204, 230, 270 or 370, 275, 275, 323, 330, 334, 341, 354, 444; (6/13/13) any HCS course except HCS 110; IME 141, 142, 143, 144, 157, 319, 320; IT 260, 330, 341; NR 306, 318, 408, 416; any PPSC course except PPSC 110; SS 221; any VGSC course; any WVIT course except WVIT 101

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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 or AGB 369 (10/5/15)	4
BUS 212 Financial Accounting for Nonbusiness	
Majors or AGB 214 Agribus Financial Acctg.....	4
CHEM 110 World of Chemistry - Essentials or	
CHEM 111 Survey of Chemistry (B3 & B4)*	4/5
² CSC 110/CSC 113/CSC 232.....	3
ENGL 148 Reasoning, Argumentation, and	
Professional Writing or ENGL 145 Reasoning,	
Argumentation and 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
Any ASCI, CRSC, DSCI, FRSC, HCS, 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 39 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

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.

² May substitute 3 units of any advisor approved elective. (4/11/15)

[†] 4 unit maximum. (5/15/15)

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	<u>0</u>
	52
FREE ELECTIVES	<u>0</u>
	183