

Note: No Major or Support courses may be selected as credit/no credit.

MAJOR COURSES		
AGC 102	Orientation to Ag. Communication & Ag. Science	2
AGC 404	Foundations of Agricultural Leadership	3
AGC 452	Current Trends & Issues in Ag. Communication	4
or AG 360	Holistic Management	
or AG 452	Issues Affecting California Agriculture	
AGC 463	Senior Project	3
AGED 410	Computer Applications in Agricultural Education ⁴	2-4
or AGC 314	California Fairgrounds and Expositions ⁴	
Foundation in Agriculture Courses		
Agribusiness		
AGB 202	Introduction to Sales	4
AGB 212	Agricultural Economics	4
AGB 301	Food and Fiber Marketing	4
or WVIT 343	Branded Wine Marketing	
Animal Science		
ASCI 112	Principles of Animal Science (B2) ¹	4
Select from the following		8
ASCI 221	Introduction to Beef Production	
ASCI 222	Systems of Swine Production	
ASCI 223	Systems of Small Ruminant Management	
ASCI 224	Equine Science	
ASCI 225	Introduction to Poultry Management	
DSCI 230	General Dairy Husbandry	
Ag Systems Technology		
BRAE 121	Agricultural Mechanics	2
BRAE 141	Agricultural Machinery Safety	3
BRAE 321	Agricultural Safety	3
BRAE 340	Irrigation Water Mgmt (Upper-Division B) ¹	4
Plant Science		
PLSC 120	Principles of Horticulture and Crop Science	4
PLSC 190	California Vegetable Production	4
or PLSC 230	Environmental Horticulture	
or PLSC 240	Commercial Seed Production	
or PLSC 245	Horticultural Production Techniques	
Natural Resources		
NR/ES 308	Fire and Society (Upper-Division D) ¹	4
or NR 323	Human Dimensions in Natural Resources Mgmt	
SS 120	Introductory Soil Science (GE Electives) ¹	4
or SS 130	Soils in Environmental & Agricultural Systems	
Safe Practices in Handling Food Products		
DSCI 229	General Dairy Manufacturing	4
or FSN 230	Elements of Food Processing	
FSN 275	Elements of Food Safety	4
Approved Electives in Emphasis Area ^{3,4} (see list on reverse)		22-24
Total Major Units		98

SUPPORT COURSES		
Foundation Science and Mathematics		
BOT 121 or MCRO 221 or PHYS 121	General Botany Microbiology College Physics I	4
CHEM 110 or CHEM 127	World of Chemistry (B1 & B3) ¹ General Chemistry for Agriculture and Life Science I	4
MATH 118 or MATH 119 or MATH 141 or MATH 161 or MATH 221	Precalculus Algebra (B4) ^{1,2} Precalculus Trigonometry Calculus I Calculus for the Life Sciences I Calculus for Business and Economics	4
Total Support Units		12

GENERAL EDUCATION		
Area A English Language Communication and Critical Thinking		
A1	Oral Communication	4
A2	Written Communication	4
A3	Critical Thinking	4
Area B Scientific Inquiry and Quantitative Reasoning		
B1	Physical Science (4 units in Support) ¹	0
B2	Life Science (4 units in Major) ¹	0
B3	One lab taken with either a B1 or B2 course	
B4	Mathematics/Quantitative Reasoning (4 units in Support) ¹	0
Upper-Division B (4 units in Major) ¹		0
Area C Arts and Humanities		
Lower-division courses in Area C must come from three different subject prefixes.		
C1	Arts	4
C2	Humanities	4
Lower-Division C Elective - Select a course from either C1 or C2		4
Upper-Division C		4
Area D Social Sciences - Select courses in Area D from at least two different prefixes		
D1	American Institutions (Title 5, Section 40404 Requirement)	4
D2	Lower-Division D	4
Upper-Division D (4 units in Major) ¹		0
Area E Lifelong Learning and Self-Development		
Lower-Division E		4
Area F Ethnic Studies		
F	Ethnic Studies	4
GE Electives in Areas B, C, and D		
Select courses from two different areas; may be lower-division or upper-division courses.		
GE Electives (4 units B in Major) ¹		0
GE Electives (Area C or D)		4
Total GE Units		48
FREE ELECTIVES ³		22
TOTAL DEGREE UNITS		180

FOOTNOTES

¹ Required in Major or Support; also satisfies General Education (GE) requirement.

² MATH 116 and MATH 117 substitute.

³ At least 29 units of Approved Electives and Free Electives must be at the 300-400 level. Students are encouraged to consult with the academic advisor in developing a plan for fulfilling degree requirements.

⁴ Depending on which option you choose between AGED 410 (2 units) and AGC 314 (4 units), will determine the number of units you will need for your Approved Electives Area (22 or 24).

Guide to Approved Agricultural Electives - Emphasis Areas

Approved Agricultural Electives have been categorized by Emphasis Area to guide students. Advisor approval of Agricultural Electives is not required, but consultation with an advisor is recommended to ensure that the required number of upper-division units is met. Also, bear in mind that selection may impact pursuit of post-baccalaureate studies and/or goals. It is imperative for students seeking a teaching credential to select one Emphasis Area and adhere to the approved list of courses.

Emphasis Areas^{3,4}

Select Emphasis Area of choice:	22-24
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Agricultural Engineering Technology

BRAE 142 Agricultural Power and Machinery Management
 BRAE 150 Design Graphics and CAD for Agricultural Engineering
 BRAE 152 3-D Solids Modeling
 BRAE 240 Agricultural Engineering Laboratory
 BRAE 244 Precision Farming
 BRAE 333 Aquacultural Engineering
 BRAE 335 Internal Combustion Engines
 BRAE 337 Landscape Irrigation
 BRAE 348 Energy for a Sustainable Society
 BRAE 438 Drip/Micro Irrigation
 BRAE 440 Agricultural Irrigation Systems
 BRAE 481 Advanced Agricultural Mechanics

Agribusiness

AGB 214 Agribusiness Financial Accounting
 AGB 260 Agribusiness Data Literacy
 AGB 304 Innovation and Entrepreneurship in Agriculture
 AGB 309 Advanced Sales Techniques
 AGB 310 Agribusiness Credit and Finance
 AGB 312 Agricultural Policy
 AGB 313 Agriculture Economic Analysis
 AGB 322 Principles of Agribusiness Management
 AGB 323 Decision Making with AGB Accounting Information
 AGB 369 Agricultural Personnel Management
 AGB 370 World Food Economy
 AGB 404 Food Retail Management
 AGB 440 Field Studies in Agribusiness
 AGB 445 Produce Marketing
 AGC 314 California Fairgrounds and Expositions
 AGC 318 Fairgrounds and Facility Management
 AGC 475 Crisis Communication in Food and Agriculture

Animal Science

ASCI 211 Meat Science
 ASCI 212 Livestock Show Management
 ASCI 220 Introductory Animal Nutrition and Feeding
 ASCI 221 Introduction to Beef Production
 ASCI 222 Systems of Swine Production
 ASCI 223 Systems of Small Ruminant Management
 ASCI 225 Introduction to Poultry Management
 ASCI 226 Livestock Evaluation
 ASCI 232 General Animal Science Laboratory
 ASCI 239 Principles of Rangeland Management
 ASCI 311 Advanced Beef Cattle System Management
 ASCI 321 Zoonoses and Veterinary Public Health Concerns
 ASCI 325 Egg Production, Processing and Distribution
 ASCI 330 Poultry Meat Production and Processing
 ASCI 342 Poultry Business Management
 ASCI 350 Nonruminant Nutrition
 ASCI 425 Meat Industry Study Tour
 DSCI 230 General Dairy Husbandry
 DSCI 241 Dairy Cattle Selection, Breeds, Fitting and Showing
 DSCI 301 Dairy Cattle Nutrition
 DSCI 330 Artificial Insemination and Embryo Biotechnology
 DSCI 333 Dairy Animal Health, Safety and Applied Technology

Crop and Soil Science

PLSC 150 Forage Crops
 PLSC 190 California Vegetable Production
 PLSC 240 Commercial Seed Production
 PLSC 245 Horticultural Production Techniques
 PLSC 321 Weed Biology and Management
 PLSC 355 Citrus and Avocado Fruit Production
 PLSC 421 Postharvest Technology of Horticultural Crops
 SS 221 Soil Health and Plant Nutrition
 SS 322 Soil Plant Relationships
 SS 444 Soil Judging

Forestry and Natural Resources

BIO 227 Wildlife Conservation Biology
 NR 142 Environmental Management
 NR 208 Dendrology
 NR 306 Natural Resource Ecology and Habitat Management
 NR/ES 308 Fire and Society
 NR 312 Technology of Wildland Fire Management
 NR/LA 317 The World of Spatial Data & Geographic Info Tech
 NR 321 Water Resources Technology and Society
 NR 323 Human Dimensions in Natural Resources Mgmt
 NR/ES 360 Ethnicity and the Land
 NR 402 Forest Health
 NR/CRP 404 Environmental Law
 NR/CRP 408 Water Resource Law and Policy

Ornamental Horticulture

BOT 121 General Botany
 BRAE 337 Landscape Irrigation
 PLSC 123 Landscape Installation and Maintenance
 PLSC 124 Plant Propagation
 PLSC 341 Cut Flower Production
 PLSC 342 Potted Plant Production
 PLSC 343 Turfgrass Management
 PLSC 381 Native Plants for California Landscapes
 PLSC 424 Nursery Crop Production
 PLSC 432 Specialized Operations for Golf Courses & Athletic Fields
 PLSC 437 Park and Public Space Management