

2011-13 Cal Poly Catalog**Horticulture and Crop Science Department****BS AGRICULTURAL AND ENVIRONMENTAL PLANT SCIENCES**

☐ 60 units upper division ☐ GWR

☐ 2.0 GPA ☐ USCP

* = Required in Support; also satisfies GE

Note: No major, support or concentration courses may be taken as credit/no credit unless so listed.

MAJOR COURSES

HCS 110 Orientation to Horticulture/Crop Science	2
HCS 120 Principles of Horticulture/Crop Science	4
HCS 124 Plant Propagation	4
HCS 304 Plant Breeding	4
HCS 327 Abiotic Plant Problems	3
HCS 410 Crop Physiology	4
HCS 461 Senior Project I	2
HCS 462 Senior Project II	2
² HCS 463 Senior Seminar	1
PPSC 311 Agricultural Entomology	4
PPSC 321 Weed Biology and Management	4
BOT 121 General Botany (B2 & B4)*	4
BOT 323 Plant Pathology	4
SS 121 Introductory Soil Science	4
Concentration courses (see below)	42
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SUPPORT COURSES

BRAE 340 Irrigation Water Mgmt (Area F)*	4
BUS 212 Financial Acctg/Nonbusiness Majors	4
CHEM 111 Survey of Chemistry (B3&B4)*	5
CHEM 312 Survey of Organic Chemistry	5
ECON 201 Survey of Economics (D2)*	4
MATH 118 Pre-Calculus Algebra (B1)*	4
SPAN 111 Elem Hispanic Lang/Culture (USCP)	4
SS 221 Fertilizers and Plant Nutrition	4
STAT 218 Applied Statistics/Life Sciences (B1)*	4
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GENERAL EDUCATION (GE)

72 units required, 24 of which are specified in Support.

→See page 39 for complete GE course listing.

→Minimum of 12 units required at the 300 level.

Area A Communication (12 units)

A1 Expository Writing	4
A2 Oral Communication	4
A3 Reasoning, Argumentation, and Writing	4

Area B Science and Mathematics (no additional units req'd)

B1 Mathematics/Statistics * 8 units in Support	0
B2 Life Science * 4 units in Support	0
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 (16 units)

D1 The American Experience (40404)	4
D2 Political Economy * 4 units in Support	0
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 Support	0
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48**FREE ELECTIVES**..... **6****180****CONCENTRATIONS (select one)****Crop Science Concentration**

VGSC 190 California Vegetable Production	4
VGSC 202 or CRSC 203 Enterprise Project	2
HCS 231 Commercial Seed Production	4
CRSC 411 Experimental Techniques/Analysis	4
HCS 421 Postharvest Technology/Hort Crops	4
CRSC 445 Cropping Systems	4
¹ Approved electives	20

Select 20 units from the following:

AG 315, 360;
AGB 301, 310, 312, 321, 336, 401;
CRSC 123, 244, 333; CRSC 402 or VGSC 402;
FRSC 132, 231, 331, 342;
HCS 200 [†] , 339 [†] , 340, 400 [†] , 450;
PPSC 327, 405, 421, 427, 431, 441;
SS 321, 322; VGSC 423

*Corrected (10/22/12)***42****Fruit Science Concentration**

FRSC 123 Beekeeping	3
FRSC 132, 133 Pomology I, II	4,4
FRSC 202 Enterprise Project	2
FRSC 231 Viticulture I	4
FRSC/WVIT 331 Viticulture II <i>or</i> WVIT 332 <i>or</i> WVIT 333 (2/5/16)	4
FRSC 342 Citrus and Avocado Fruit Production	4
CRSC 411 Experimental Techniques and Analysis	4
HCS 421 Postharvest Technology/Hort Crops	4
¹ Approved electives	9

Select 9 units from the following:

AGB 260, 301, 310, 315, 321, 401;
CRSC 333, 445;
CRSC 402 or FRSC 402 or VGSC 402;
FRSC 415;
HCS 200 [†] , 339 [†] , 400 [†] , 450;
PPSC 327, 405, 414, 421, 431, 441;
SS 321, 322;
VGSC 190 <i>or</i> 230, 423; WVIT 433

42¹ 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 1 unit of any upper-division free elective. (12/11/14)

Greenhouse and Nursery Plant Production Concentration

EHS 127 Horticulture and Landscape Design	4
¹ EHS 210 <i>or</i> EHS 310 Enterprise Project (I or II).....	2
EHS 231, 232 Plant Materials I, II	4,4
EHS 245 Horticultural Production Techniques	3
EHS 315 Herbaceous & Specialty Plant Production	4
EHS 342 Potted Plant Production	4
HCS 340 Principles of Greenhouse Environment	4
PPSC 427 Disease and Pest Control Systems for Ornamental Plants.....	4
² Approved electives.	9

Select 9 units from the following:

- AGB 401;
- BUS 310, 346, 409;
- CRSC 333;
- EHS 210 or 310, 324, 341, 381, 382, 402, 424;
- HCS 200[†], 339[†], 400[†], 421;
- PPSC 327, 405, 421, 431, 441

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Plant Protection Science Concentration

CRSC 411 Experimental Techniques and Analysis	4
FRSC/VGSC 202 <i>or</i> CRSC/FRSC/VGSC 402 <i>or</i> EHS 210/310/402 <i>Corrected (7/2/12)</i>	2
PPSC 327 Vertebrate Pest Management	4
PPSC 405 Advanced Weed Management.....	4
PPSC 421 Plant-Pest Interactions <i>or</i> AEPS 427 (6/25/15).	4
PPSC 431 Insect Pest Management.....	4
PPSC 441 Biological Control for Pest Management	4
² Approved electives.	16

Select 16 units from the following:

- AG 315;
- BIO 114;
- BOT 326;
- BRAE 331;
- CHEM 313;
- CRSC 123, 244, 333, 445;
- EHS 245, 315, 341, 342, 343;
- FRSC 132, 133, 231, 331, 342;
- HCS 200[†], 231, 339[†], 340, 400[†], 421, 450;
- MCRO 221, 436;
- PPSC 427;
- SS 322, 422;
- VGSC 190

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Public Horticulture Concentration

EHS 123 Landscape Installation and Maintenance	4
EHS 127 Horticulture and Landscape Design	4
EHS 231, 232 Plant Materials I, II	4,4
EHS 343 Turfgrass Management.....	4
EHS 437 Park and Public Space Management.....	4
PPSC 427 Disease and Pest Control Systems for Ornamental Plants.....	4
² Approved electives.	14

Select 14 units from the following:

- BRAE 331, 337;
- EHS 215, 225, 301, 324, 381, 382, 402, 421, 427, 434;
- HCS 200[†], 339[†], 340, 400[†];
- PPSC 405, 431, 441
- May take up to two (2) courses from the following:
- BOT 313, 326, 335;
- ~~RPTA-330~~; *Corrected (3/14/13)*
- SS 310, 433

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Sustainable Landscape Management and Design Concentration

EHS 123 Landscape Installation and Maintenance	4
EHS 126 Landscape Construction.....	3
EHS 127 Horticulture and Landscape Design.....	4
EHS 231, 232 Plant Materials I, II.....	4,4
EHS 331 Landscape Contracting	4
EHS 343 Turfgrass Management	4
² Approved electives.....	15

Select ~~16~~ 15 units from the following:

- AGB 401;
- BRAE 331, 337;
- EHS 301, 324, 381, 382, 421, 433, 434, 427, 437;
- HCS 200[†], 339[†], 400[†];
- PPSC 327, 405, 421, 431, 441

Corrected (11/19/12)

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Turfgrass and Sports Field Management Concentration

EHS 231, 232 Plant Materials I, II.....	4,4
EHS 343 Turfgrass Management	4
EHS 430 Sports Field Construction/Management....	4
EHS 433 Golf Course Management Operations.....	4
EHS 434 Landscape Management	4
HCS 339 Internship in Horticulture/Crop Science	4
PPSC 427 Disease and Pest Control Systems for Ornamental Plants	4
² Approved electives.....	10

Select 10 units from the following:

- BOT 326;
- BRAE 331, 337;
- CRSC 411;
- EHS 301, 324, 381, 421, 437;
- HCS 200[†], 400[†];
- PPSC 327, 405, 431;
- SS 310, 322

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¹ The course selected to satisfy this requirement may not be taken again for credit as an approved elective.

² 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.

[†] HCS 200 and 400 up to 2 units each; HCS 339 up to 4 units.