

# Agricultural and Environmental Plant Sciences Major

## Summer, 2018 – Spring, 2019 Projected Course Offerings\*

Course	Course Title	Summer	Fall	Winter	Spring	Prerequisites**
AEPS 101	Orientation to Horticulture and Crop Science		✓			None.
AEPS 110	People, Pests and Plagues		✓	✓	✓	None. Note: <b>Not open to AEPS or WVIT majors (Viticulture concentration).</b>
AEPS 120	Principles of Horticulture and Crop Science		✓	✓	✓	None.
AEPS 123	Landscape Installation and Maintenance			✓		AEPS 120.
AEPS 124	Plant Propagation				✓	AEPS 120 and BOT 121.
AEPS 126	Landscape Construction		✓			AEPS 120.
AEPS 127	Horticulture and Landscape Design			✓		None.
AEPS 132	Pomology I			✓		AEPS 120. Note: <b>Not open to students with credit in AEPS 250.</b>
AEPS 133	Pomology II				✓	AEPS 132.
AEPS 150	Forage Crops		✓			None.
AEPS 175	Beekeeping		✓		✓	None.
AEPS 190	California Vegetable Production				✓	AEPS 120.
AEPS 200	Special Problems for Undergraduates	✓	✓	✓	✓	Consent of instructor.
AEPS 202	Orchard and Vegetable Enterprise Project		✓	✓	✓	None.
AEPS 203	Organic Enterprise		✓	✓	✓	None.
AEPS 204	Greenhouse Vegetable Enterprise			✓	✓	None.
AEPS 210	Viticultural Practices			✓	✓	None. Crosslisted as WVIT 210. (This course is offered only as WVIT 210.)

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AEPS 212	Environmental Horticulture Enterprise Project I		✓	✓	✓	None.
AEPS 215	Floral Design I		✓	✓		None.
AEPS 225	Floral Design II				✓	AEPS 215.
AEPS 230	Environmental Horticulture					None. Note: <b>Not open to AEPS majors.</b>
AEPS 233	Plant Materials I				✓	None.
AEPS 234	Plant Materials II		✓			None.
AEPS 240	Commercial Seed Production				✓	AEPS 120 or AEPS 260.
AEPS 244	Precision Farming			✓		AEPS 133 or AEPS 190 or AEPS 260 or BRAE 237 or BRAE 239. Crosslisted as BRAE 244. <b>(This course is offered <i>only</i> as AEPS 244.)</b>
AEPS 245	Horticultural Production Techniques		✓			None.
AEPS 250	California Fruit Growing					None. Note: Not open to AEPS majors or students with credit in AEPS 132. <b>No longer offered</b>
AEPS 260	Introduction to Vegetable Science					None. Note: Not open to AEPS majors or students with credit in AEPS 190. <b>No longer offered.</b>
AEPS 270	Selected Topics					Open to undergraduate students and consent of instructor.
AEPS 301	Principles of Landscape Design					AEPS 127, and AEPS 233 or AEPS 234.
AEPS 304	Plant Breeding			✓	✓	AEPS 120 and STAT 218. Recommended: One of the following: AEPS 132, AEPS 190, AEPS 230, AEPS 245, AEPS 250, or WVIT 233.
AEPS 312	Environmental Horticulture Enterprise Project II		✓	✓	✓	Consent of instructor.
AEPS 313	Agricultural Entomology		✓		✓	AEPS 120 or BOT 121; and of the following: CHEM 110, CHEM 111 or CHEM 127.

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AEPS 315	Organic Crop Production		✓		✓	Junior standing and completion of GE Area B. Note: Fulfills GE Area F. Crosslisted as AG 315. (This course is offered only as AEPS 315.)
AEPS 321	Weed Biology and Management		✓		✓	AEPS 120 or BOT 121.
AEPS 323	Plant Pathology		✓		✓	BIO 162 or BOT 121. Crosslisted as AEPS/BOT 323. (This course is offered only as AEPS 323.)
AEPS 327	Vertebrate Pest Management			✓		Junior standing.
AEPS 329	Plants, Food, and Biotechnology		✓			Junior standing and completion of one of the following: AEPS 120, BIO 111, BIO 114, BIO 161, or BOT 121. Not open to AEPS majors. Fulfills GE Area F.
AEPS 331	Advanced Viticulture - Fall	✓	✓			WVIT/AEPS 231 or WVIT 232 or WVIT 233. Crosslisted as WVIT 331. [This course is offered only as WVIT 331.]
AEPS 332	Landscape Contracting					AEPS 126 and AEPS 127.
AEPS 333	Greenhouse Vegetable Production		✓			AEPS 120; CHEM 111 or CHEM 127; and SS 221.
AEPS 339	Internship in Horticulture and Crop Science	✓	✓	✓	✓	Consent of instructor. Note: Degree credit limited to 6 units.
AEPS 340	Principles of Greenhouse Environment				✓	AEPS 245.
AEPS 341	Cut Flower Production		✓			AEPS 120.
AEPS 342	Potted Plant Production			✓		AEPS 245.
AEPS 343	Turfgrass Management		✓			AEPS 120 or BOT 121; and SS 121.
AEPS 350	Abiotic Plant Problems			✓		AEPS 124; CHEM 111 or CHEM 127; and SS 121.
AEPS 351	Experimental Techniques and Analysis			✓		Junior standing and MATH 118 or equivalent, and STAT 218.
AEPS 355	Citrus and Avocado Fruit Production				✓	AEPS 120 or AEPS 250. Offered odd years only.

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AEPS 381	Native Plants for California Landscapes				✓	BOT 121 and junior standing.
AEPS 400	Special Problems for Advanced Undergraduates	✓	✓	✓	✓	Consent of instructor.
AEPS 402	Fruit Enterprise Project Management					AEPS 202 and consent of instructor. Total credit limited to 4 units. <b>No longer offered.</b>
AEPS 403	Organic Enterprise Project Management					AEPS 203 and consent of instructor. Total credit limited to 4 units. <b>No longer offered.</b>
AEPS 404	Vegetable Enterprise Project Management					AEPS 204 and consent of instructor. Total credit limited to 4 units. <b>No longer offered.</b>
AEPS 406	Advanced Weed Management			✓		AEPS 321.
AEPS 410	Crop Physiology				✓	AEPS 120 or BIO 263; BIO 162 or BOT 121; and CHEM 216, CHEM 312 or CHEM 316.
AEPS 414	Grape Pest Management		✓			AEPS/WVIT 231, WVIT 232 or WVIT 233; AEPS 313; AEPS/BOT 323. Crosslisted as WVIT 414. <b>[This course is offered only as WVIT 414]</b>
AEPS 421	Postharvest Technology of Horticultural Crops			✓		Junior standing.
AEPS 423	Advanced Vegetable Science					AEPS 190 or AEPS 260.
AEPS 424	Nursery Crop Production			✓		AEPS 124. <b>(This course offered even years, only)</b>
AEPS 425	Arboriculture					AEPS 123, AEPS 233, and AEPS 234 or NR 208 for FNR majors.
AEPS 427	Disease and Pest Control Systems for Ornamental Plants			✓		AEPS 120, AEPS 313, AEPS 321, and AEPS/BOT 323.
AEPS 431	Insect Pest Management				✓	AEPS 313.
AEPS 432	Specialized Operations for Golf Courses and Athletic Fields					AEPS 343. Not open to students with credit in AEPS 430 or AEPS 433.
AEPS 434	Landscape Management					AEPS 123 and AEPS 126 and junior standing.

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AEPS 435	Advanced Landscape Design					AEPS 233, AEPS 234, AEPS 301. Recommended: AEPS 381.
AEPS 437	Park and Public Space Management		✓			Junior standing.
AEPS 441	Biological Control for Pest Management		✓			AEPS 313.
AEPS 445	Cropping Systems			✓		AEPS 120; or BOT 121 and SS 121; or graduate standing.
AEPS 461	Senior Project I		✓	✓	✓	Junior standing, completion of GE Area A1, and STAT 218.
AEPS 462	Senior Project II	✓	✓	✓	✓	Consent of instructor.
AEPS 470	Selected Advanced Topics: Nut Crop Production				✓	Consent of instructor. Recommended: AEPS 132 or AEPS 250. <i>(This course offered even years, only)</i>
AEPS 470	Selected Advanced Topics: Current Issues in the Strawberry Industry				✓	Recommended: AEPS 120 or BOT 121.
AEPS 471	Selected Advanced Laboratory					Consent of instructor.
AEPS 500	Individual Study in Horticulture and Crop Science	✓	✓	✓	✓	Consent of instructor. Total credit limited to 6 units.
AEPS 539	Graduate Internship in Horticulture and Crop Science	✓	✓	✓	✓	Consent of instructor. Degree credit limited to 6 units.
AEPS 570	Selected Topics in Horticulture and Crop Science					Consent of instructor. Total credit limited to 12 units.
AEPS 571	Selected Topics Laboratory in Horticulture and Crop Science					Consent of instructor. Total credit limited to 12 units.
AEPS 575	Applied Systematics for Agriculture			✓		Graduate standing. Recommended: a course in basic entomology, plant pathology, and weed science. <i>(This course offered even years, only)</i>
AEPS 581	Graduate Seminar in Crop/Fruit Production			✓		Graduate standing. <i>(This course offered odd years, only)</i>
AEPS 596	Thesis in Crop Science		✓	✓	✓	Graduate standing and consent of instructor. Degree credit limited to 6 units.

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AEPS 597	Thesis in Environmental Horticultural Science		✓	✓	✓	Graduate standing and consent of instructor. Degree credit limited to 6 units.
AEPS 598	Thesis in Fruit Science		✓	✓	✓	Graduate standing and consent of instructor. Degree credit limited to 6 units.
AEPS 599	Thesis in Plant Protection Science		✓	✓	✓	Graduate standing and consent of instructor. Degree credit limited to 6 units. Total credit limited to 9 units.

### Support Courses for AEPS Major

Course	Course Title	Summer	Fall	Winter	Spring	Prerequisites**
AGB 214	Agribusiness Financial Accounting		✓	✓	✓	None.
BOT 121	General Botany		✓	✓	✓	None.
BRAE 340	Irrigation Water Management		✓	✓	✓	Junior standing, completion of GE Area B, and MATH 118 or higher.
BUS 212	Financial Accounting for Nonbusiness Majors		✓	✓	✓	None.
CHEM 127	General Chemistry for Agriculture and Life Science I	✓	✓	✓	✓	Passing score on ELM examination, or an ELM exemption, or credit in MATH 96 (formally MATH 104). Recommended: High school chemistry or equivalent.
CHEM 128	General Chemistry for Agriculture and Life Science II	✓	✓	✓	✓	CHEM 127 or AP Chemistry score of 5.
CHEM 312	Survey of Organic Chemistry	✓	✓	✓	✓	CHEM 125 or CHEM 128.
MATH 118	Pre-Calculus Algebra	✓	✓	✓	✓	Completion of ELM requirement and passing score on appropriate Mathematics Placement Examination. MATH 118 is equivalent to MATH 116 and MATH 117. Not open to students with credit in MATH 117, MATH 141, MATH 161, or MATH 221.

Course	Course Title	Summer	Fall	Winter	Spring	Prerequisites**
SPAN 101	Elementary Spanish I		✓	✓	✓	None. Note: Credit not available for students who have completed SPAN 104 or SPAN 111.
SPAN 102	Elementary Spanish II		✓	✓	✓	SPAN 101, SPAN 111, or appropriate score on placement exam or consent of instructor. Note: Not open to students with credit in SPAN 104.
SPAN 103	Elementary Spanish III		✓	✓	✓	SPAN 102 or appropriate score on placement exam or consent of instructor. Note: Not open to students with credit in SPAN 104.
SPAN 111	Elementary Hispanic Language and Culture			✓		None. Note: Not open to students who have credit in SPAN 101. Fulfills USCP.
SS 121	Introductory Soil Science		✓	✓	✓	College chemistry and passing score on ELM examination, or an ELM exemption, or credit in MATH 96 (formally MATH 104).
SS 221	Fertilizers and Plant Nutrition		✓	✓	✓	SS 121.
STAT 218	Applied Statistics for the Life Sciences	✓	✓	✓	✓	Passing score on the ELM examination, or an ELM exemption, or credit in MATH 96 (formally MATH 104). Note: Not open to students with credit in STAT 217 or STAT 251. Fulfills GE B1; for students admitted Fall 2016 or later, a grade of C- or better in one GE B1 course is required to fulfill GE Area B.

### Concentration Approved Electives: Extra-departmental Courses

Course	Course Title	Summer	Fall	Winter	Spring	Prerequisites**
AG/ASCI 360	Holistic Management		✓	✓	✓	Junior standing and completion of GE Area B. Notes: Not open to students with credit in AG 450. Fulfills GE Area F.
BRAE 337	Landscape Irrigation			✓		MATH 118.
BRAE 405	Chemigation				✓	BRAE 236 or BRAE 340; or graduate standing.

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BRAE 438	Drip/Micro Irrigation			✓		BRAE 236 or BRAE 340; or graduate standing.
BRAE 440	Agricultural Irrigation Systems				✓	BRAE 340 or graduate standing.
BUS 346	Principles of Marketing	✓	✓	✓	✓	ECON 201 or ECON 222 with a grade of C- or better; or consent of instructor.
CHEM 313	Survey of Biochemistry and Biotechnology	✓	✓	✓	✓	CHEM 212, CHEM 216, CHEM 312, or CHEM 316.
FSN 275	Elements of Food Safety				✓	None.
MCRO 221	Microbiology	✓	✓	✓	✓	CHEM 110 or CHEM 111 or CHEM 124 or CHEM 127 or PSC 102.
SS 321	Soil Morphology	✓	✓	✓	✓	SS 121.
SS 322	Soil Plant Relationships			✓		SS 221, CHEM 111 or CHEM 128.
WVIT 233	Basic Viticulture	✓	✓	✓	✓	AEPS 120 or BOT 121; CHEM 111 or CHEM 127; SS 121. Not open to students with credit in WVIT 231. Formally WVIT 232.
WVIT 331	Advanced Viticulture – Fall	✓	✓			WVIT/AEPS 231 or WVIT 232 or WVIT 233.
WVIT 332	Advanced Viticulture - Winter			✓		WVIT/AEPS 231 or WVIT 232 or WVIT 233.
WVIT 333	Advanced Viticulture - Spring				✓	WVIT/AEPS 231 or WVIT 232 or WVIT 233.

\* Though every attempt is made to accurately project what will be offered in the coming year, course offerings may change due to instructor availability and/or budgetary constraints. Spring, 2019 courses are based on what was taught Spring, 2018.

\*\* Prerequisites are those described in the 2017-2019 catalog.