

Sustainable Agriculture and Food Systems

Core Subject Matter Requirements

Note: Students graduating with this major are required to attain at least a C average (2.0 GPA) in all courses taken at the university in Depth Subject Matter *and* pass all coursework. All major course *must* be taken for a letter grade. See requirements of the College of Agriculture & Environmental Science in the UC Davis General Catalog.

<u>Core Courses (24-26 Units)</u>		<u>Prerequisites</u>	<u>Quarter(s)</u>	<u>Units</u>	<u>Completed</u>
<u>Plant Sciences</u>					
PLS 15	Introduction to Sustainable Agriculture		III	4	_____
PLS 190	Seminar on Alternatives in Agriculture	upper division standing or consent of instructor	II	2	_____
<u>Community and Regional Development</u>					
CRD 20	Food Systems		I	4	_____
<u>Agricultural and Resource Economics</u>					
ARE 121	Economics of Agricultural Sustainability	PLS 15; CRD 20; ECN 1A; MAT 12 or equivalent	II	4	_____
<u>Environmental and Science Policy</u>					
ESP 191A*	Workshop on Food System Sustainability	PLS 15, CRD 20, ARE 121, PLS 150, or consent	I	3	_____
ESP 191B*	Workshop on Food System Sustainability	PLS 15, CRD 20, ARE 121, PLS 150, ESP 191A	II	3	_____
<u>Choose one:</u>					
PLS 150	Sustainability and Agroecosystem Management	SSC 10, CHE 2A, PLS 2, BIS 1C or 2C	III	4	_____
ANS 112	Sustainable Animal Agriculture	ANS 1 or BIS 2B; Rec: STA 100 or PLS 120	III	3	_____
<u>Applied Production (6-9 Units)</u>		<u>Prerequisites</u>	<u>Quarter(s)</u>	<u>Units</u>	<u>Completed</u>
<i>(choose one below)</i>					
PLS 49	Organic Crop Production Practices		I, III	3	_____
VEN 101A	Viticultural Practices	VEN 2	I	3	_____
ENH 120	Management of Container Media	SSC 10	I	3	_____
PLS 131*	Identification and Ecology of Grasses	BIS 1 or PLS 2; PLB 102 & Junior standing rec.		2	_____
<i>(choose one below)</i>					
ANS 49 A-J	Animal Management Practices		I:B,C,D,E,G,H,I,J,K II:C,E,G,H,I,J,K III:B,C,D,F,G,H,J	2	_____
ANS 41L	Domestic Animal Production Laboratory	ANS 41	I, II	2	_____
<i>(choose one below)</i>					
ABT 49	Field Equipment Operation		III	2	_____
ABT 52	Field Equipment Welding	ABT 16 or consent of instructor	II	2	_____
ABT 101	Engine Technology	Upper division standing or consent of instructor	II	3	_____
ABT 142	Equipment and Technology for Small Farms		III	2	_____
FST 50	Introduction to Food Preservation	CHE 2A, BIS 2A, STA 13 (can be concurrent)	I	3	_____

Don't forget your 8 units of internship and 20 upper division units of restricted electives!

*Offered odd years, **=offered even years, †=future availability unknown

I=Fall Quarter, II=Winter Quarter, III=Spring Quarter, IV=Summer Session

Sustainable Agriculture and Food Systems

ALL TRACKS

Preparatory Subject Matter Requirements

<u>Preparatory Subject Matter</u>	<u>Quarter(s) Offered</u>	<u>Units</u>	<u>Completed</u>	<u>Notes</u>
<u>Chemistry</u>				
CHE 2A General Chemistry	I, II, IV	5	_____	_____
<u>Plant Sciences</u>				
PLS 2 Botany and Physiology of Cultivated Plants	II	4	_____	_____
<u>Food Science</u>				
FST 1 Principles of Food Science	III	3	_____	_____
<u>Economics</u>				
ECN 1A Principles of Microeconomics	I, II, III, IV	4	_____	_____
<u>Community and Regional Development</u>				
CRD 1 The Community	I, II	4	_____	_____
<u>Philosophy</u> (<i>Choose one</i>)				
PHI 14 Ethical and Social Problems in Contemporary Society	II, III	4	_____	_____
PHI 15 Introduction to Bioethics	I, IV	4	_____	_____
PHI 24 [†] Introduction to Ethics and Political Philosophy		4	_____	_____
<u>Communications</u>				
CMN 1 Introduction to Public Speaking	I, II, III, IV	4	_____	_____

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Sustainable Agriculture and Food Systems
Track I: Agriculture and Ecology
Additional Preparatory Subject Matter Requirements

<u>Preparatory Subject Matter</u>		<u>Quarter(s) Offered</u>	<u>Units</u>	<u>Completed</u>	<u>Notes</u>
<u>Biological Sciences</u>					
BIS 2A	Introduction to Biology: Essentials of Life on Earth	I, II, III, IV	5	_____	_____
BIS 2B	Principles of Ecology and Evolution	I, II, III, IV	5	_____	_____
<u>Mathematics</u>					
MAT 16A	Short Calculus	I, II, III, IV	3	_____	_____
MAT 16B	Short Calculus	I, II, III, IV	3	_____	_____
<u>Chemistry</u>					
CHE 2B	General Chemistry	II, III	5	_____	_____
<u>Physics</u>					
PHY 1A	Principles of Physics	I, II, IV	3	_____	_____
<u>Statistics/Plant Sciences</u> (Choose one)					
STA 100	Applied Statistics for Biological Sciences	I, II, III, IV	4	_____	_____
PLS 120	Applied Statistics in Agricultural Science	I	4	_____	_____
<u>Animal Sciences</u> (Choose one)					
ANS 1	Domestic Animals and People	I	4	_____	_____
ANS 2	Introductory Animal Science	III	4	_____	_____
<u>Human Society</u> (choose one)					
POL 4	Basic Concepts in Political Theory	I, II, III, IV	4	_____	_____
ANT 2	Cultural Anthropology	I, II, III, IV	4	_____	_____
SOC 1	Introduction to Sociology	I, II, III, IV	5	_____	_____
SOC 3	Social Problems	I, II, III, IV	4	_____	_____

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Sustainable Agriculture and Food Systems

Track I: Agriculture and Ecology

Depth Subject Matter Requirements

<u>Depth Subject Matter</u>	<u>Prerequisites</u>	<u>Quarter(s) Offered</u>	<u>Units</u>	<u>Completed</u>
<u>Agricultural and Resource Economics</u> (choose one)				
ARE 120 Agricultural Policy	ARE 100A	III	4	_____
ARE 147* Resource and Environmental Policy Analysis	ECN 1A	II	3	_____
<u>Environmental Science and Policy</u> (choose one)				
ESP 161 Environmental Law	Upper-Div Standing; one course in ESP/ESM or POL recommended	II	4	_____
ESP 169 Water Policy and Politics	ECN 1A or POL 1 recommended	III	3	_____
<u>Soil Science</u> (choose one)				
SSC 100 Principles of Soil Science	CHE 2A-B, PHY 1A-B, BIS 1A	I	5	_____
SSC 109 Sustainable Nutrient Management	SSC 100	III	4	_____
<u>Select one from below</u>				
ANS 129* Environmental Stewardship in Animal Production Systems	BIS 10 <u>or</u> BIS 1; CHE 2 <u>and</u> CHE 8		3	_____
ENH 160** Restoration Ecology	PLB/EVE 117 or EVE 121	III	3	_____
ESP 100 General Ecology	BIS 2, MAT 16/17/21	I	4	_____
EVE 101 Introduction to Ecology	BIS 1 or 2, MAT 16	I, II, III, IV	4	_____
PLS 105 Concepts in Pest Management	BIS 1C or 2, CHE 8	I	3	_____
PLS 142 Ecology of Crop Systems	PLS 2 or BIS2C or MAT 16A or PHY 1A, or consent of instructor.		4	_____
WFC 154 Conservation Biology	EVE 101 or ESP 100	I	4	_____

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