

# 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>
<b><u>Plant Sciences</u></b>					
PLS 15	Introduction to Sustainable Agriculture		III	4	_____
PLS 190	Seminar on Alternatives in Agriculture	upper division standing or consent of instructor	II	2	_____
<b><u>Community and Regional Development</u></b>					
CRD 20	Food Systems		I	4	_____
<b><u>Agricultural and Resource Economics</u></b>					
ARE 121	Economics of Agricultural Sustainability	PLS 15; CRD 20; ECN 1A; MAT 12 or equivalent	II	4	_____
<b><u>Environmental and Science Policy</u></b>					
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	_____
<b><u>Choose one:</u></b>					
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>
<b><i>(choose one below)</i></b>					
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	_____
<b><i>(choose one below)</i></b>					
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	_____
<b><i>(choose one below)</i></b>					
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>
<b><u>Chemistry</u></b>				
CHE 2A      General Chemistry	I, II, IV	5	_____	_____
<b><u>Plant Sciences</u></b>				
PLS 2      Botany and Physiology of Cultivated Plants	II	4	_____	_____
<b><u>Food Science</u></b>				
FST 1      Principles of Food Science	III	3	_____	_____
<b><u>Economics</u></b>				
ECN 1A      Principles of Microeconomics	I, II, III, IV	4	_____	_____
<b><u>Community and Regional Development</u></b>				
CRD 1      The Community	I, II	4	_____	_____
<b><u>Philosophy</u></b> ( <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 <sup>†</sup> Introduction to Ethics and Political Philosophy		4	_____	_____
<b><u>Communications</u></b>				
CMN 1      Introduction to Public Speaking	I, II, III, IV	4	_____	_____

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Sustainable Agriculture and Food Systems  
Track III: Economics and Policy  
**Additional Preparatory Subject Matter Requirements**

<u>Preparatory Subject Matter</u>		<u>Quarter(s) Offered</u>	<u>Units</u>	<u>Completed</u>	<u>Notes</u>
<b><u>Mathematics</u></b>					
MAT 16A	Short Calculus	I, II, III, IV	3	_____	_____
MAT 16B	Short Calculus	I, II, III, IV	3	_____	_____
<b><u>Biological Sciences</u></b> (choose one)					
BIS 2A	Introduction to Biology: Essentials of Life on Earth	I, II, III, IV	5	_____	_____
BIS 10	Everyday Biology	I, II, III	4		
<b><u>Sociology / Statistics</u></b> (choose one)					
SOC 46B	Introduction to Social Research	I, II, IV	5	_____	_____
STA 13	Elementary Statistics	I, II, III, IV	4		
<b><u>Select one:</u></b>					
EVE 2	Biodiversity		3		
BIS 2B	Introduction to Biology: Principles of Ecology and Evolution	I, II, III, IV	5		
ESP 1	Environmental Analysis	I	4	_____	_____
ESP 30**	World Ecosystems & Geography	Alt. years	3		
WFC 10	Wildlife Ecology and Conservation	I, III	4		
WFC 11	Introduction to Conservation Biology	Alt. years	3		
<b><u>Select one:</u></b>					
ARE 106	Econometric Theory and Applications	I, II, III, IV	4		
STA 103	Applied Statistics for Business and Economics	I, II, III, IV	4	_____	_____
SOC 106	Intermediate Social Statistics	I, II	5		
<b><u>Soil Science</u></b>					
SSC 10	Soils in Our Environment	I	3	_____	_____
<b><u>Economics</u></b>					
ECN 1B	Principles of Macroeconomics	I, II, III, IV	4	_____	_____
<b><u>Human Society</u></b>					
POL 4	Basic Concepts in Political Theory	I, II, III, IV	4	_____	_____
(choose one below):					
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 III: Economics and Policy

### Depth Subject Matter Requirements

<u>Depth Subject Matter</u>	<u>Prerequisites</u>	<u>Quarter(s) Offered</u>	<u>Units</u>	<u>Completed</u>
<b><u>Agricultural and Resource Economics</u> (choose one)</b>				
ARE 112	Fundamentals of Organization Management	upper division standing	I, II, III, IV	4
ARE 150	Agricultural Labor	ARE 100	III	4
ARE 157	Analysis for Operations and Production Management	Requires ARE 155	II	4
<b><u>Choose 11-12 units from below:</u></b>				
ARE 120	Agricultural Policy	ARE 100A	III	4
ARE 130	Agricultural Markets	ARE 106	I	4
ARE 147	Resource and Environmental Policy Analysis	ECN 1A	II	3
ARE 176	Environmental Economics	ARE 100 or ECN 100B	II	4
ESP 160	The Policy Process	POL 1; ECN 1A and STA 13 recommended	III	4
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
ESP 172	Public Lands Management	ECN 1A recommended	I	4
ESP 179	Environmental Impact Assessment	ESP 1	II	4
<b><u>Choose 8 units from below:</u></b>				
ANT 101**	Ecology, Nature, and Society	ANT 1 or 2 or ESP 30 or EVE 100 or BIS 101 rec	II	4
ANT 104N	Cultural Politics of the Environment	ANT 2 recommended	III	
CRD 118	Technology and Society	CRD 1 or CRD 2 or SOC 1 or ANT 2	I	4
CRD 142	Rural Change in the Industrialized World	CRD 1 or CRD 2 or SOC 1 or ANT 2	II	4
CRD 149*	Community Development Perspectives on Environmental Justice		III	4
CRD 152	Community Development	CRD1 or 151 or SOC 2 or ANT 2 or ASA 100 or CHI 132 or AAS 101 or consent of instructor	III	4
SOC 130	Race Relations		I	4
SOC 160	Sociology of the Environment	Recommended: SOC 1, SOC 2, or SOC 3	I, II, III	4

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