

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 II: Food and Society
Additional Preparatory Subject Matter Requirements

| <u>Preparatory Subject Matter</u> | <u>Quarter(s) Offered</u> | <u>Units</u> | <u>Completed</u> | <u>Notes</u> |
|--|-------------------------------|--------------|------------------|--------------|
| Philosophy (choose one) | | | | |
| PHI 5 Critical Reasoning | I, II, III, IV | 4 | _____ | _____ |
| PHI 31 Appraising Scientific Reasoning | I, IV | 4 | _____ | _____ |
| Biological Sciences (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 | _____ | _____ |
| Sociology / Statistics (choose one) | | | | |
| SOC 46B Introduction to Social Research | I, II, III | 5 | _____ | _____ |
| STA 13 Elementary Statistics | I, II, III, IV | 4 | _____ | _____ |
| Select one: | | | | |
| CRD 151 Community Field Research: Theory and Analysis | III | 4 | _____ | _____ |
| LDA/ABT 150 Introduction to Geographic Information Systems | I | 4 | _____ | _____ |
| STA 103 Applied Statistics for Business and Economics | I, II, III, IV | 4 | _____ | _____ |
| SOC 106 Intermediate Social Statistics | I, II | 5 | _____ | _____ |
| Community and Regional Development | | | | |
| CRD 2 Ethnicity and American Communities | I, III | 4 | _____ | _____ |
| Soil Science | | | | |
| SSC 10 Soils in Our Environment | I | 3 | _____ | _____ |
| Choose one: | | | | |
| 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 | _____ | _____ |
| Human Society | | | | |
| 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 II: Food and Society

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 (choose one)</u> | | | | |
| ARE 112 | Fundamentals of Organization Management | upper division standing | I, II, III, IV | 4 |
| ARE 150 | Agricultural Labor | ARE 100 | III | 4 |
| <u>Select one from below:</u> | | | | |
| 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 rec. | 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 |
| <u>Choose 12 units from below:</u> | | | | |
| 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 | 4 |
| 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 |
| <u>Select one from below:</u> | | | | |
| AMS 101G | New Directions in American Culture Studies | | N/A '17-'18 | 4 |
| AMS 156 | Race, Culture and Society in the United States | | III | 4 |
| HIS 108/109A | Global Environmental History | | N/A '17-'18 | 4 |
| HIS 172 | American Environmental History | HIS 17A | '17: IV; '18: III | 4 |
| NAS 123 | Native Foods and Farming of the Americas | NAS 7A concurrently; completion of NAS 16C or demonstrate required proficiency level on diagnostic exam | N/A '17-'18 | 4 |
| NAS 162 | California Indian Environmental Policy II | | II | 4 |
| PHI 109* | Philosophy of the Social Sciences | one course in philosophy or a social science recommended | II | 4 |
| WMS 104 | Feminist Approaches to Inquiry | WMS 50 recommended or consent of instructor | III | 4 |
| WMS 136 | Topics in Gender, Production, Consumption and Meaning | | | |

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