

Select one course from: Animal Science 129, Environmental Horticulture 160 or, Environmental Science and Policy 100, Evolution and Ecology 101, Plant Sciences 105, 142, Wildlife, Fish, and Conservation Biology 154 ..... 4-5  
Additional upper-division restricted electives chosen in consultation with the track faculty adviser..... 20

### Track II: Food and Society

Focuses on issues related to the social, cultural, political and community development aspects of agriculture and food systems.

**Track II Adviser.** R. Galt, Ph.D.

### Preparatory Subject Matter..... 57-64

Philosophy 5 or 31 ..... 4  
Select one course from: Philosophy 14, 15, 24 ..... 4  
Sociology 46B or Statistics 13 ..... 4  
Select at least one course from: Community and Regional Development 151, Applied Biological Systems Technology 180, Landscape Architecture 150, Statistics 103, Sociology 106 ..... 3-6  
Chemistry 2A ..... 5  
Biological Sciences 2A or 10 ..... 5  
Plant Sciences 2 ..... 4  
Select one course from: Evolution and Ecology 2 or Biological Sciences 2B or Environmental Science and Policy 1 or 30 or Wildlife, Fish, and Conservation Biology 10 or 11 ..... 3-5  
Food Science 1 ..... 3  
Soil Science 10 ..... 3  
Economics 1A ..... 4  
Political Science 4 ..... 4  
Select one course from: Anthropology 2, Sociology 1, Sociology 3 ..... 4-5  
Community and Regional Development 1, 2 ..... 8

### Depth Subject Matter ..... 43-44

Agricultural and Resource Economics 112 or 150 ..... 4  
Select 1 course from: Agricultural and Resource Economics 147, 176, Environmental Science and Policy 160, 161, 169, 172, 179 ..... 3-4  
Choose 12 units from: Anthropology 101, 102, Community and Regional Development 142, 152, Sociology 139, 144, 145A, 145B ..... 12  
Select 1 course from: American Studies 101C, 155, History 172 or Philosophy 109 ..... 4  
Additional upper-division restricted electives chosen in consultation with the track faculty adviser..... 20

### Track III: Economics and Policy

Focuses on issues related to agricultural and resource economics, policy and management.

**Track III Adviser.** T. Tomich, Ph.D.

### Preparatory Subject Matter..... 60-64

Mathematics 16A, 16B ..... 6  
Sociology 46B or Statistics 13 ..... 4  
Select 1 course from: Agricultural and Resource Economics 106, Statistics 103, Sociology 106 ..... 4  
Chemistry 2A ..... 5  
Biological Sciences 2A or 10 ..... 5  
Plant Sciences 2 ..... 4  
Select 1 course from: Evolution and Ecology 2, Biological Sciences 2B, Environmental Science and Policy 1, 30, Wildlife, Fish, and Conservation Biology 10, 11 ..... 3-5  
Food Science 1 ..... 3  
Soil Science 10 ..... 3  
Economics 1A, 1B ..... 8  
Political Science 4 ..... 4  
Select 1 course from: Anthropology 2, Sociology 1, Sociology 3 ..... 4-5  
Community and Regional Development 1 .. 4

Select 1 course from: Philosophy 14, 15, 24 ..... 4

### Depth Subject Matter ..... 43-44

Select one course from: Agricultural and Resource Economics 112, 150, 157 ..... 4  
Select 11-12 units from: Agricultural and Resource Economics 120, 130, 147, 176, Environmental Science and Policy 160, 161, 169, 172, 179 ..... 11-12  
Select 8 units from: Anthropology 101, 102, Community and Regional Development 142, 152, Sociology 139, 144, 145A, 145B... 8  
Additional restricted electives chosen in consultation with an adviser ..... 20

### Total units for the major..... 140-163

**Major Adviser.** R. Galt (*Human Ecology*); **Track I Adviser.** W. Horwath (*Land, Air & Water Resources*); **Track II Adviser.** R. Galt (*Human Ecology*); **Track III Adviser.** T. Tomich (*Human Ecology, Environmental Science & Policy*)

**Advising Center** for the major is located in 1303 Hart Hall, Department of Human Ecology 530-752-2244.

## Courses in Sustainable Agriculture and Food Systems (SAF)

### Lower Division

#### 90X. SA&FS Portfolio (1-4)

Workshop—3-12 hours. Prerequisite: consent of instructor. Restricted to Sustainable Agriculture and Food Systems majors with lower-division standing or consent of instructor. SA&FS Portfolios are designed to complement interdisciplinary, academic coursework by supporting student development of each of the SA&FS Student Learning Outcomes: Systems Thinking, Experimentation & Inquiry, Understanding Values, Interpersonal Communication, Strategic Management, Civic Engagement and Personal Development. May be repeated for credit. Offered irregularly. (P/NP grading only.)—F, W, S, Su. (F, W, S, Su.)

#### 92. Internship (1-12)

Internship—3-36 hours. Prerequisite: consent of instructor. Restricted to Sustainable Agriculture and Food Systems majors or with consent of instructor. Lower-division internship for students enrolled in the Sustainable Agriculture and Food Systems program of study. Enrollment for non-majors by consent of instructor. May be repeated up to 12 units for credit with consent of instructor. (P/NP grading only.)—F, W, S, Su. (F, W, S, Su.)

#### 98. Directed Group Study (1-5)

Prerequisite: consent of instructor. Restricted to Sustainable Agriculture and Food Systems major or with consent of instructor. Group study on focused topics in Sustainable Agriculture and Food Systems. Varies according to instructor. Course plan is adapted to student need and interest in conjunction with the expertise of the instructor. Offered irregularly. (P/NP grading only.)—F, W, S, Su. (F, W, S, Su.)

#### 99. Special Study for Undergraduates (1-5)

Independent study—3-15 hours. Prerequisite: consent of instructor. Under faculty supervision, students pursue a special or individualized course of study related to Sustainable Agriculture and Food Systems. May be repeated for credit. (P/NP grading only.)—F, W, S, Su. (F, W, S, Su.)

### Upper Division

#### 192. Internship (1-12)

Internship—3-36 hours. Prerequisite: upper-division standing; consent of instructor. Restricted to Sustainable Agriculture and Food Systems majors or non-majors by consent of instructor. Upper-division internship for students enrolled in the Sustainable Agriculture and Food Systems program of study. May be repeated up to 12 units for credit. (P/NP grading only.)—F, W, S, Su. (F, W, S, Su.)

### 197T. Tutoring in Sustainable Agriculture and Food Systems (1-5)

Tutorial—3-15 hours. Prerequisite: upper division standing; consent of instructor. Undergraduates assist the instructor by tutoring students in regularly scheduled courses that fulfill SA&FS major requirements. May be repeated for credit. Offered irregularly. (P/NP grading only.)—F, W, S, Su. (F, W, S, Su.)

### 197TC. SA&FS Tutoring in the Community (1-5)

Tutorial—3-15 hours. Prerequisite: upper division standing; consent of instructor. Undergraduates assist the instructor by tutoring in the community in settings related to Sustainable Agriculture and Food Systems. May be repeated for credit. Offered irregularly. (P/NP grading only.)—F, W, S, Su. (F, W, S, Su.)

### 198. Directed Group Study (1-5)

Prerequisite: upper division standing; consent of instructor. Restricted to Sustainable Agriculture and Food Systems major or with consent of instructor. Group study on focused topics in Sustainable Agriculture and Food Systems. Varies according to instructor. Course plan is adapted to student need and interest in conjunction with the expertise of the instructor. May be repeated for credit. Offered irregularly. (P/NP grading only.)—F, W, S, Su. (F, W, S, Su.)

### 199. Special Study for Advanced Undergraduates (1-5)

Independent study—3-15 hours. Prerequisite: upper division standing; consent of instructor. Under faculty supervision, advanced students pursue a special or individualized course of study related to Sustainable Agriculture and Food Systems. May be repeated for credit. (P/NP grading only.)—F, W, S, Su. (F, W, S, Su.)

## Sustainable Environmental Design

(College of Agriculture and Environmental Sciences)  
(Department of Human Ecology)

Steven E. Greco, Ph.D., Chairperson, Landscape Architecture and Environmental Design Program

**Program Office.** 131 Hunt Hall;  
530-752-3907; [http://humanecology.ucdavis.edu/lda/academic\\_programs/sed](http://humanecology.ucdavis.edu/lda/academic_programs/sed)

### Faculty

Elizabeth Boult, MLA Continuing Lecturer  
David de la Pena, Ph.D., Assistant Professor  
Steven E. Greco, Ph.D., Professor  
Eric Larsen, Ph.D., Associate Research Scientist  
Jeff Loux, Ph.D., Associate Adjunct Professor  
Brett Milligan, M.L.A., Assistant Professor  
N. Claire Napawan, M.L.A., Assistant Professor  
Lorence Oki, Ph.D., Associate Specialist in Cooperative Extension  
Patsy Eubanks Owens, M.L.A., Professor  
Michael Rios, Ph.D., Associate Professor  
Sheryl-Ann Simpson, M.L.A., Assistant Professor  
Stephen Wheeler, Ph.D., Professor

### The Major Program

The Sustainable Environmental Design major is intended to build student understanding and skills related to creation of sustainable communities and landscapes. Coursework emphasizes urban and environmental design, sustainable development theory and practice, green building, local government planning and decision-making, community dynamics and organizations, and written, graphic, and oral presentation of sustainability strategies.

### The Program

The Sustainable Environmental Design major is particularly suited for students who are interested in the

**Fall 2011 and on Revised General Education (GE):** AH=Arts and Humanities; SE=Science and Engineering; SS=Social Sciences;

ACGH=American Cultures; DD=Domestic Diversity; OL=Oral Skills; QL=Quantitative; SL=Scientific; VL=Visual; WC=World Cultures; WE=Writing Experience

**Pre-Fall 2011 General Education (GE):** ArtHum=Arts and Humanities; SciEng=Science and Engineering; SocSci=Social Sciences; Div=Domestic Diversity; Wrt=Writing Experience

**Quarter Offered:** F=Fall, W=Winter, S=Spring, Su=Summer; 2017-2018 offering in parentheses

physical form and design of communities and related public and private processes. It is focused on the physical environment of communities and the process of designing, planning for, and regulating the built landscape and the place-making considerations involved in creating sustainable communities.

### Career Alternatives

Graduates will choose to pursue work in government, community organizations, education, or the private sector. They will also be well-positioned to pursue graduate education in city and regional planning, landscape architecture, architecture, public policy, public administration, law, real estate, and related fields.

### B.S. Major Requirements:

	UNITS
<b>Preparatory Subject Matter</b> .....	<b>64</b>
English Writing/Oral Communication .....	8
Biological Sciences 2A, 2B.....	10
One course each in Statistics, Economics, Political Science, Physical Sciences, and Sociology .....	20
Landscape Architecture 1, 2, 3, 21, 30, 50, 70.....	26
<b>Depth Subject Matter</b> .....	<b>21</b>
Landscape Architecture 140, 141, 142 ..	14
Environmental Science and Policy 171.....	4
Landscape Architecture 190 (three quarters).....	3
<b>Restricted Electives</b> .....	<b>20-25</b>
Select 20 units of upper division courses chosen from courses related to community sustainability .....	20
Internship: Recommended.....	5
<b>Total units for the major</b> .....	<b>105-110</b>
<b>Major Adviser.</b> Stephen Wheeler	
<b>Advising Center.</b> See Sharla Cheney, 135 Hunt Hall, 530-754-8628, <a href="mailto:scheney@ucdavis.edu">scheney@ucdavis.edu</a> .	

## Technocultural Studies

See **Cinema and Digital Media**, on page 207.

## Textile Arts and Costume Design

See **Design**, on page 233.

## Textile Science

See **Fiber and Polymer Science**, on page 338.

## Textiles (A Graduate Group)

Ning Pan, Ph.D., Chairperson of the Group

**Group Office.** 129 Everson Hall  
530-752-8035; [nerabaud@ucdavis.edu](mailto:nerabaud@ucdavis.edu)  
<http://textiles.ucdavis.edu>

### Faculty

Susan Avila, M.F.A. Professor (*Design*)  
Colin A. Carter, Ph.D., Distinguished Professor (*Agricultural and Resource Economics*)  
James Chalfant, Ph.D., Professor (*Agricultural & Resource Economics*)  
Hidergarde Heymann, Ph.D., Distinguished Professor (*Viticulture and Enology*)

You-Lo Hsieh, Ph.D., Distinguished Professor (*Textiles and Clothing*)  
Susan B. Kaiser, Ph.D., Professor (*Textiles and Clothing, Women and Gender Studies*)  
Helen Koo, Assistant Professor (*Design*)  
Ning Pan, Ph.D., Professor (*Textiles and Clothing, Biological and Agricultural Engineering*)  
Tingrui Pan, Ph.D., Associate Professor (*Biomedical Engineering*)  
Diana Strazdes, Associate Professor (*Art History*)  
Gang Sun, Ph.D., Professor (*Textiles and Clothing*)  
Susan Verba, M.F.A., Associate Professor (*Design Program*)

### Emeriti Faculty

Stephen Jett, Ph.D., Professor Emeritus (*Textiles and Clothing, Geography*)  
Joel T. Johnson, Professor (*Psychology*)  
Gyongy Laky, M.A., Professor Emeritus (*Textiles and Clothing*)  
Margaret H. Rucker, Ph.D., Professor Emeritus (*Textiles and Clothing*)  
Howard G. Schutz, Ph.D., Professor Emeritus (*Consumer Science*)  
James F. Shackelford, Ph.D., Professor Emeritus (*Chemical Engineering and Materials Science*)  
Charles F. Shoemaker, Ph.D., Professor Emeritus (*Food Science and Technology*)  
Jo Ann C. Stabb, M.A., Senior Lecturer Emeritus (*Design*)  
S. Haig Zeronian, Ph.D., Professor Emeritus (*Textiles and Clothing*)

**Graduate Study.** The Graduate Group in Textiles offers a program of study and research leading to the M.S. degree. Students in the program use an interdisciplinary approach emphasizing the physical and behavioral science aspects of textiles. Research areas include chemical, physical, biochemical, and mechanical properties of fibers and polymers as well as fibrous assemblies, including composites, paper, and nonwovens; and psychological and sociological factors relating to perception and consumption of textiles and apparel. Extensive specialized fiber, polymer, and textiles research facilities and a behavioral research laboratory are available. For detailed information regarding the program, address the Chairperson of the Group.

**Graduate Advisers.** Y.L. Hsieh, N. Pan

## Textiles and Clothing

(College of Agricultural and Environmental Sciences)

You-Lo Hsieh, Ph.D., Chairperson of the Division

**Division Office.** 129 Everson Hall  
530-752-6650; <http://textiles.ucdavis.edu>

### Faculty

You-Lo Hsieh, Ph.D., Professor  
Susan B. Kaiser, Ph.D., Professor (*Women and Gender Studies*)  
Ning Pan, Ph.D., Professor  
Gang Sun, Ph.D., Professor

### Emeriti Faculty

Stephen C. Jett, Ph.D., Professor Emeritus  
Gyongy Laky, M.A., Professor Emeritus  
Mary Ann Morris, Ph.D., Professor Emeritus  
Margaret H. Rucker, Ph.D., Professor Emeritus  
S. Haig Zeronian, Ph.D., D.Sc., Professor Emeritus

### The Major Program

The textiles and clothing major emphasizes the connections among (a) the physical characteristics of textile products, (b) human perceptions of and behavior toward these products, and (c) global economic trends affecting the textile/apparel marketplace. An integrative knowledge base links textile products with people and processes, to focus on the production, distribution, and consumer use of textiles and apparel; see also **Fiber and Polymer Science**, on page 338.

**The Program.** The textiles and clothing major offers two options: textile science and marketing/economics. The Textile Science option provides students with a broad knowledge base in both the social and physical sciences. This base includes production, end-use applications and care of textiles and apparel, physical and chemical properties of textiles, and social-psychological and economic aspects of textiles and clothing. The Marketing/Economics option emphasizes social science and business course work, while also providing students with an awareness of the physical nature of textile products.

**Internships and Career Alternatives.** Textiles and clothing majors can pursue internships and careers in apparel production and merchandising, retail management, international marketing, textile testing and conservation, and textiles journalism. The majority of textiles and clothing graduates accept entry-level management and technical positions within the textile and apparel industry or in related fields; e.g., merchandising and marketing, production, research and development, technical service and design. Students may also pursue graduate studies in textiles, business, and other areas depending on their specific selections of restricted elective course work.

### B.S. Major Requirements:

	UNITS
<b>Preparatory Subject Matter</b> .....	<b>42-44</b>
Plant Sciences 21 or Computer Science Engineering 15 or 30 .....	3-4
Economics 1A-1B .....	8
Anthropology 2, Science and Society 1, Art History 1A, 1B, 1C, or 1D .....	4
Physics 1A or 10.....	3-4
Psychology 1 .....	4
Sociology 2.....	4
Statistics 13.....	4
Textiles and Clothing 6, 7, 8.....	12

Select one of the following two options:

### Marketing/Economics option

<b>Additional Preparatory Subject Matter for the option</b> .....	<b>18-19</b>
Management 11A-11B .....	8
Chemistry 10 or 2A.....	4-5
Mathematics 16A-16B .....	6

### Depth Subject Matter..... 56-57

Agricultural and Resource Economics 100A-100B, 106, 136.....	16
Statistics 103.....	4
Psychology 151 or Consumer Science 100.....	3-4
Fiber and Polymer Science 110, Textiles and Clothing 107, 162, 162L, 163, 163L, 164, 165, 171, 173, 174.....	33

### Restricted Electives..... 12

Courses selected from the following:  
Agricultural and Resource Economics 18, 112, 142, 155, 157, 171A, 171B, Anthropology 122A, 126A, Consumer Science 100, Design 77, 107, 143, Economics 101, 121A, 121B, 134, 162, and other relevant course work, Foreign language units may be used to satisfy any or all of the required 12 units, Mathematics 16C, Psychology 151, Sociology 123, 126, 140, 141, 145, Textiles and Clothing 180A, 180B, 230, 293, with consent of instructor, and a maximum of five units in either Textiles and Clothing 192 or 199.

### Textile Science option

<b>Additional Preparatory Subject Matter for the option</b> .....	<b>19</b>
Chemistry 2A, 2B, 8A, 8B .....	16
Mathematics 16A.....	3

### Depth Subject Matter..... 51-52

Agricultural and Resource Economics 112, 113.....	8
Design 143.....	4

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ACGH=American Cultures; DD=Domestic Diversity; OL=Oral Skills; QL=Quantitative; SL=Scientific; VL=Visual; WC=World Cultures; WE=Writing Experience

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