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
http://textiles.ucdavis.edu

Faculty

Susan Avila, M.F.A. Professor (Design)
Colin A. Carter, Ph.D., Distinguished Professor (Agricultural and Resource Economics)
James Challenger, 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 & Agricultural Engineering)
Tingrui Pan, Ph.D., Associate Professor (Biomedical Engineering)
Diana Strazdas, 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. Schultz, 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 Program 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
530-752-8650; 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 behaviors 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 product 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 marketing/merchandising 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, 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:

Preparatory Subject Matter

<table>
<thead>
<tr>
<th>Subject Matter</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Writing/Oral Communication</td>
<td>8</td>
</tr>
<tr>
<td>Biological Sciences 2A, 2B</td>
<td>10</td>
</tr>
<tr>
<td>One course each in Statistics, Economics, Political Science, Physical Sciences, and Sociology</td>
<td>20</td>
</tr>
<tr>
<td>Landscape Architecture 1, 2, 3, 21, 30, 35, 70</td>
<td>26</td>
</tr>
</tbody>
</table>

Depth Subject Matter

<table>
<thead>
<tr>
<th>Subject Matter</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 20 units of upper division courses chosen from courses related to community sustainability</td>
<td></td>
</tr>
<tr>
<td>Internship Recommended</td>
<td>5</td>
</tr>
</tbody>
</table>

Total units for the major | 105-110 |

Select one of the following two options:

Marketing/Economics option

Additional Preparatory Subject Matter for the option

<table>
<thead>
<tr>
<th>Subject Matter</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant Sciences 21 or Computer Science Engineering 15A or 15B</td>
<td>3-4</td>
</tr>
<tr>
<td>Economics 1A-1B</td>
<td>8</td>
</tr>
<tr>
<td>Anthropology 2, Science and Society 1, Art History 1A, 1B, 1C, or 1D</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>Sociology 2</td>
<td>4</td>
</tr>
<tr>
<td>Statistics 13</td>
<td>4</td>
</tr>
<tr>
<td>Textiles and Clothing 6, 7, 8</td>
<td>8</td>
</tr>
</tbody>
</table>

Select one of the following two options:

Textile Science option

Additional Preparatory Subject Matter for the option

<table>
<thead>
<tr>
<th>Subject Matter</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 10 or 20</td>
<td>4-5</td>
</tr>
<tr>
<td>Mathematics 16A-16B</td>
<td>6</td>
</tr>
</tbody>
</table>

Restricted Electives

Courses selected from the following:

<table>
<thead>
<tr>
<th>Subject Matter</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural and Resource Economics 100A-100B</td>
<td>10, 136</td>
</tr>
<tr>
<td>Statistics 103</td>
<td>4</td>
</tr>
<tr>
<td>Psychology 151 or Consumer Science 100</td>
<td>3-4</td>
</tr>
<tr>
<td>Fibers and Polymer Science 110, Textiles and Clothing 107, 162, 162, 163L, 164, 165, 171, 173, 174</td>
<td>33</td>
</tr>
</tbody>
</table>

Foreign language units may be used to satisfy any of the required 12 units, Mathematics 16C, Psychology 151, Sociology 123, 125, 140, 141, 143, 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

Additional Preparatory Subject Matter for the option

<table>
<thead>
<tr>
<th>Subject Matter</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 2A, 2B, 8A</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics 16A</td>
<td>3</td>
</tr>
</tbody>
</table>

Depth Subject Matter

<table>
<thead>
<tr>
<th>Subject Matter</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural and Resource Economics 112, 113</td>
<td>8</td>
</tr>
<tr>
<td>Design 143</td>
<td>4</td>
</tr>
</tbody>
</table>
Psychology 151 or Consumer Science 100. ............................... 34
Fibers and Polymer Science 100, 161, 161L, Textiles and Clothing 107, 162, 162L, 163, 163L, 164, 165, 171, 173, 174 ............................. 36

Restricted Electives .................................................. 16

Courses selected from the following:

Total Units for the Major ................................. 128-132

Major Adviser. S. Kaiser

Advising Center for the major is located in 1204 S. Kaiser

Upper Division

107. Social and Psychological Aspects of Clothing (4)

162. Textile Fabrics (3)

162L. Textile Fabrics Laboratory (1)
Laboratory—3 hours. Prerequisite: course 162 (may be taken concurrently). Laboratory methods and procedures employed in studying properties of textile fabrics as related to serviceability, comfort, and appearance. GE credit: SciEng | QL, SE, VL, W. (W.)

163. Textile Coloration and Finishing (3)
Lecture—3 hours. Prerequisite: course 6, Fiber and Polymer Science 110, or Chemistry 88. Basic principles of textile dyeing, printing, and finishing; color theory; structure, properties, and application of dyes and finishes; factors affecting application and fastness; maintenance of dyed and finished textiles. GE credit: SciEng | SE, VL, W—S. (S.)

163L. Textile Coloration and Finishing Laboratory (1)
Laboratory—3 hours. Prerequisite: course 163 (may be taken concurrently). Demonstrates various aspects of dyeing, printing, and finishing of textile substrates including the effect of fiber and finish type, and physical and chemical variables on dyeing and finishing processes and on the properties of the resultant textile. GE credit: SciEng | QL, SE, VL, W—S. (S.)

164. Principles of Apparel Production (3)
Lecture—3 hours. Prerequisite: course 6 or 8. Overview of characteristics, technology, processes, and research in apparel manufacturing industries including study of government standards, material utilization and fabrication, mechanization, management, and production engineering. GE credit: SocSci, Div, VL, W—S.

165. Textile Processes (3)
Lecture/discussion—3 hours; laboratory—1 hour. Prerequisite: course 6. Physical processes involved in the production of textiles from the individual fiber to the finished fabric. Includes spinning, texturing, yarn formation, weaving preparation, weaving and knitting, tufting and fabric finishing. GE credit: SciEng | SE.

171. Clothing Materials Science (4)
Lecture—3 hours; laboratory/discussion—3 hours. Prerequisite: course 6, 8, and senior standing. The properties, characterization, and performance evaluation of clothing materials and structures for specific functional requirements and objectives. Organizes methods related to wetting and transport properties, fabric hand and aesthetic properties, clothing comfort, and material and assembly technology. GE credit: SciEng | SE.

173. Principles of Fashion Marketing (3)
Lecture—3 hours. Prerequisite: course 8, Economics 1A, Agricultural and Resource Economics 113 or 136. Study of basic elements of fashion marketing including planning, marketing, merchandising, pricing, promotion and personnel. Offered in alternate years. GE credit: SocSci | SS, VL, W—S.

1. Directed Group Study (1-5)
Prerequisite: consent of instructor. (P/NP grading only)

99. Special Study for Lower Division Students (1-5)
(P/NP grading only)

108. Internship in Textiles and Clothing (1-5)
Laboratory—3-36 hours. Prerequisite: consent of instructor. Work-learn experience off campus in a textiles or clothing-related area. Supervision by a member of the Textiles and Clothing faculty. (P/NP grading only)

179. Tutoring in Textiles and Clothing (1-5)
Discussion/laboratory—3-15 hours. Prerequisite: upper division textiles-related major and consent of instructor. Tutoring of students in Textiles and Clothing courses. Assistance with discussion groups and laboratory sections under supervision of instructor. May be repeated for credit if tutoring another textiles course. (P/NP grading only)

198. Directed Group Study (1-5)
(P/NP grading only)

199. Special Study for Advanced Undergraduates (1-5)
(P/NP grading only)

Graduate

230. Behavioral Science Concepts in Textiles (3)
Lecture—3 hours. Prerequisite: course 107, upper division or graduate course in statistics (e.g., Agricultural Management and Rangeland Resources 120) and one in a behavioral science (e.g., Psychology 145). Examination of theories and research concerning relationships between clothing and human behavior with emphasis on research techniques, including methods of measuring clothing variables. Offered in alternate years.—Kaiser

290. Seminar (1)
Seminar—1 hour. Critical review of selected topics of current interest in textiles. (S/U grading only.)—W, F, W

290C. Research Conference (1)
Discussion—1 hour. Prerequisite: graduate standing; consent of instructor. Individual faculty members meet with their graduate students. Critical presentations of original research are made by graduate students. Research activities are planned. Discussions are led by major professors for their research groups. (S/U grading only.)—F, W, S, F (F, W, S)

293. Recent Advances in Textiles (3)
Lecture—3 hours. Prerequisite: two upper division courses in Textiles and Clothing or consent of instructor. Critical reading and evaluation on selected topics of current interest in textiles. Multidisciplinary aspects of the topics selected will be stressed. May be repeated for credit.—(W)

298. Group Study (1-5)

299. Research (1-12)
(S/U grading only)

Professional

396. Teaching Assistant Training Practicum (1-4)
Prerequisite: graduate standing. May be repeated for credit. (S/U grading only.)—F, W, S, F, W, S