

7A-E. Technocultural Workshop (1)

Seminar—1 hour. Workshops in technocultural digital skills: (A) Digital Imaging; (B) Digital Video; (C) Digital Sound; (D) Web Design; (E) Topics in Digital Production.—I. (I.)

Upper Division Courses**100. Experimental Digital Cinema I (4)**

Lecture/discussion—3 hours; laboratory—3 hours. Experimental approaches to the making of film and video in the age of digital technologies. Opportunities for independent producers arising from new media. Instruction in technical, conceptual and creative skills for taking a project from idea to fruition. Hershman

101. Experimental Digital Cinema II (4)

Lecture/discussion—3 hours; laboratory—3 hours. Prerequisite: course 100. Continuation of course 100 with further exploration of digital cinema creation. Additional topics include new modes of distribution, streaming, installation and exhibition. Hershman

103. Interactivity and Animation (4)

Lecture/discussion—3 hours; laboratory—3 hours. Fundamentals of creating interactive screen-based work. Theories of interactivity, linear versus non-linear structures, and audience involvement and participation. Use of digital production tools to produce class projects. Drew

104. Documentary Production (4)

Lecture/discussion—3 hours; project. Prerequisite: course 7B or the equivalent, course 155. Traditional and new forms of documentary, with focus on technocultural issues. Skills and strategies for producing work in various media. Progression through all stages of production, from conception through post-production to critique.—Drew

110. Object-Oriented Programming for Artists (4)

Lecture/discussion—3 hours; laboratory—3 hours. Prerequisite: course 1. Introduction to object-oriented programming for artists. Focus on understanding the metaphors and potential of object-oriented programming for sound, video, performance, and interactive installations.—III.

111. Community Media Production (4)

Lecture/discussion—3 hours; laboratory—3 hours. Use of video and new media tools to address social issues among neighborhood and community groups. Students will use basic video, sound, and lighting techniques as they work with local groups in a group video project.—III. (III.)

112. New Radio Features and Documentary (4)

Lecture/discussion—3 hours; laboratory—3 hours. New feature and documentary production for radio and other audiophonic media, including audio streaming Web sites and installation. Emphasis on new and experimental approaches to audio production for broadcast on community radio and in international arts programming.

113. Community Networks (4)

Lecture/discussion—3 hours; laboratory—3 hours. Impact and implications of computer-based networks in community, civic, and social life. Subjects may include community-access computer sites, neighborhood wireless networks, the digital divide, open-source software, and citizen action.

120. History of Sound in the Arts (4)

Lecture—3 hours; term paper. Prerequisite: course 1. A survey of the use of sound, voice, noise, and modes of listening in the modernist, avant-garde, and experimental arts, from the late 19th Century to the present. Focus on audiophonic and audiovisual technologies.—Kahn

121. Introduction to Sonic Arts (4)

Lecture/discussion—3 hours; lecture/laboratory—3 hours. Prerequisite: course 7C. Introduction to the use of sound within the arts. Techniques and aesthetics of experimental contemporary practices. Creation of original sound works.—Ostertag

122. Intermediate Sonic Arts (4)

Lecture/discussion—3 hours; laboratory—3 hours. Prerequisite: course 121, 170C. Techniques of recording, editing, mixing, and synthesis to combine voice, field recordings, and electronic signals. Incorporating live, recorded, and found sounds to create multidimensional stories. Presentation of live performances, audio recordings, and sound installations.—Ostertag

123. Sight and Soundtrack (4)

Lecture/discussion—3 hours; laboratory—3 hours. Prerequisite: courses 7C, 170C. The use of sound to articulate, lend mood or subconsciously underscore visual, environmental or performative situations, combining music, voice, sound effects and other noises to create sound designs that enhance, alter or support action and movement.—Ostertag

150. Introduction to Theories of the Technoculture (4)

Lecture/discussion—3 hours; extensive writing. Major cultural theories of technology with emphasis on media, communications, and the arts. Changing relationships between technologies, humans, and culture. Focus on the evolution of modern technologies and their reception within popular and applied contexts. GE credit: ArtHum—Dyson

151. Topics in Virtuality (4)

Lecture/discussion—3 hours; term paper. Prerequisite: course 1. Social, political, economic, and aesthetic factors in virtual reality. Artificial environments, telepresence, and simulated experience. Focus on contemporary artists' work and writing.—Dyson

152. New Trends in Technocultural Arts (4)

Lecture/discussion—3 hours; term paper. Current work at the intersection of the arts, culture, science, and technology including biological and medical sciences, computer science and communications, and artificial intelligence and digital media.—Hershman

153. Concepts of Innovative Soundtracks (4)

Lecture/discussion—3 hours; term paper. Innovative and unconventional soundtracks in cinema, media arts, and fine arts. Introduction to basic analytical skills for understanding sound-image relationships.—Kahn

154. Outsider Machines (4)

Lecture/discussion—3 hours; term paper. Invention, adaptation and use of technologies outside the mainstream, commonsense, and the possible. Topics include machines as metaphor and embodied thought, eccentric customizing and fictional technologies.—Kahn

155. Introduction to Documentary Studies (4)

Lecture/discussion—3 hours; term paper. Recent evolution of the documentary. The personal essay film; found-footage/appropriation work; non-linear, multi-media forms; spoken word; storytelling; oral history recordings; and other examples of documentary expression.—I. (I.)

158. Technology and the Modern American Body (4)

Lecture/discussion—3 hours; term paper. Prerequisite: course 1 and either American Studies 1 or 5. The history and analysis of the relationships between human bodies and technologies in modern society. Dominant and eccentric examples of how human bodies and technologies influence one another and reveal underlying cultural assumptions. (Same course as American Studies 158.) GE credit: ArtHum.—de la Pena

159. Media Subcultures (4)

Lecture/discussion—3 hours; term paper. Relationships between subcultural groups and media technologies. Media as the cohesive and persuasive force of subcultural activities. List-servs, Web sites, free radio, fan 'zines, and hip-hop culture. GE credit: Div.—II. (II.)

170A-E. Advanced Technocultural Workshop (1)

Seminar—1 hour. Prerequisite: course 7A or the equivalent. Workshops in advanced technocultural digital skills: (A) Digital Imaging; (B) Digital Video; (C) Digital Sound; (D) Web Design; (E) Topics in Digital Production.

190. Research Methods in Technocultural Studies (4)

Lecture/discussion—3 hours; project. Introduction to basic research methods for Technocultural Studies: electronic and archived images, sounds and data, satellite downlinking, radiowave scanning, and oral histories.

191. Writing Across Media (4)

Lecture/discussion—3 hours; extensive writing. Introduction to experimental approaches to writing for different media and artistic practices. How written texts relate to the images, sounds, and performances in digital and media production.—Kahn

192. Internship (1-4)

Internship—3-12 hours. Supervised internship on or off campus in area relevant to Technocultural Studies. May be repeated twice for credit. (P/NP grading only.)

197T. Tutoring in Technocultural Studies (1-5)

Tutorial—3-15 hours. Prerequisite: consent of instructor. Undergraduates assist the instructor by tutoring students in one of the department's regularly scheduled courses. May be repeated for credit up to eight units. (P/NP grading only.)—I, II, III. (I, II, III.)

198. Directed Group Study (1-5)

Prerequisite: consent of instructor. (P/NP grading only.)

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

Prerequisite: consent of instructor. Guided study with faculty member in independent scholarly activity. May be repeated for credit up to eight units. (P/NP grading only.)

Textile Arts and Costume Design

See [Design](#), on page 189.

Textile Science

See [Fiber and Polymer Science](#), on page 272.

Textiles (A Graduate Group)

Gang Sun, Ph.D., Chairperson of the Group

Group Office. 129 Everson Hall

(530) 752-6650;

<http://textiles.ucdavis.edu>

Faculty

Colin A. Carter, Ph.D., Professor
(Agricultural and Resource Economics)

You-Lo Hsieh, Ph.D., Professor

(Textiles and Clothing)

Susan B. Kaiser, Ph.D., Professor (Textiles and Clothing, Women and Gender Studies)

Dean MacCannell, Ph.D., Professor
(Landscape Architecture)

Zuhair A. Munir, Ph.D., Professor

(Chemical Engineering and Materials Science)

Ning Pan, Ph.D., Professor (*Textiles and Clothing, Biological and Agricultural Engineering*)
 Victoria Z. Rivers, M.A., Professor (*Design*)
 Margaret H. Rucker, Ph.D., Professor (*Textiles and Clothing*)
 James F. Schackelford, Ph.D., Professor (*Chemical Engineering and Materials Science*)
 Charles F. Shoemaker, Ph.D., Professor (*Food Science and Technology*)
 Gang Sun, Ph.D., Associate Professor (*Textiles and Clothing*)

Emeriti Faculty

Gyongy Laky, M.A., Professor Emeritus (*Textiles and Clothing*)
 Howard G. Schutz, Ph.D., Professor Emeritus (*Consumer Science*)
 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 Adviser. G. Sun (*Textiles and Clothing*)

Textiles and Clothing

(College of Agricultural and Environmental Sciences)

Susan B. Kaiser, Ph.D., Chairperson of the Division

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

Faculty

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 Margaret H. Rucker, Ph.D., Professor
 Gang Sun, Ph.D., Associate Professor

Emeriti Faculty

Stephen C. Jett, Ph.D., Professor Emeritus
 Mary Ann Morris, Ph.D., Professor Emeritus
 S. Haig Zeronian, Ph.D., D.Sc., Professor Emeritus

Affiliated Faculty

Joan Chandler, M.S., Lecturer

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 272](#).

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 busi-

ness 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
English Composition Requirement	4-12
See College Requirement	0-8
Communication 1	4
Preparatory Subject Matter	43-45
Agricultural Management and Rangeland Resources 21 or Computer Science Engineering 15 or 30	3-4
Economics 1A-1B	10
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
Breadth/General Education	6-24
Satisfaction of General Education requirement.	

Select one of the following two options:
Marketing/Economics Option

Additional Preparatory Subject Matter for the option **18-19**

Management 11A-11B	8
Chemistry 10 or 2A	4-5
Mathematics 16A-16B	6

Depth Subject Matter **57-58**

Agricultural and Resource Economics 100A-100B, 106, 136	16
Statistics 103	4
Psychology 151 or 156, or Consumer Science 100	3-4
Fiber and Polymer Science 110, Textiles and Clothing 107, 162, 162L, 163, 163L, 164, 165, 171, 173, 174	31

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 77A, 77B, 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, 156, Sociology 123, 126, 140, 141, 145, Textiles and Clothing 180A, 180B, 230, 293, with consent of instructor, and a maximum of 5 units in either Textiles and Clothing 192 or 199.

Unrestricted Electives **15-44**

Textile Science Option
Additional Preparatory Subject Matter for the option **19**

Chemistry 2A, 2B, 8A, 8B	16
Mathematics 16A	3

Depth Subject Matter **52-53**

Agricultural and Resource Economics 112, 113	8
Design 143	4
Psychology 151 or 156, or Consumer Science 100	3-4

Fiber and Polymer Science 100, 161, 161L, Textiles and Clothing 107, 162, 162L, 163, 163L, 164, 165, 171, 173, 174

Restricted Electives **16**

Courses selected from the following:
 Agricultural and Resource Economics 18, 141, 142, 155, 171A, 171B, Agricultural Management and Rangeland Resources 120, Chemistry 2C, 128A, 128B, 128C, Communication 42, 130, 136, 140, Community and Regional Development 162, Consumer Science 100, Design 77A, 77B, 142A, 142B, 160A, 160B, 160C, 170A, 170B, 170C, Economics 11A, 11B, 100, 101, 121A, 121B, 134, Fiber and Polymer Science 110, Foreign Language units may be used to satisfy any or all of the required 16 units, Mathematics 16B, 16C, Psychology 151, 156, Sociology 25, 123, 126, 140, 148, 159, 175, Statistics 106, 108; Textiles and Clothing 180A, 180B, 230, 293, with consent of instructor, and a maximum of 5 units in either Textiles and Clothing 192 or 199.

Unrestricted Electives **17-46**

Total Units for the Degree **180**

Major Adviser. G. Sun

Advising Center for the major is located in 129B Everson Hall (530) 752-4417.

Minor Program Requirements:

The Division of Textiles and Clothing offers a minor program for non-majors interested in satisfying secondary career objectives. For acceptance into the program see the staff adviser in 133B Everson Hall.

UNITS

Textiles and Clothing **18**

Textiles and Clothing 6, 7, or 8

Courses selected from Fiber and Polymer Science 100, 110, 161, 161L, Textiles and Clothing 107, 162-162L, 163-163L, 164, 165, 171, 173, 174

Minor Adviser. G. Sun

Courses in Textiles and Clothing (TXC)

Questions pertaining to the following courses should be directed to the instructor or to the Division of Textiles and Clothing. See also courses in [Fiber and Polymer Science, on page 272](#).

Lower Division Courses

6. Introduction to Textiles (4)

Lecture—3 hours; laboratory—3 hours. Introduction to the structure and properties of textiles. Consumer use and fabric characteristics are emphasized. GE credit: SciEng.—I. (I.) Sun

7. Style and Cultural Studies (4)

Lecture/discussion—3 hours; discussion/laboratory—1 hour. The multiple and overlapping influences of gender, sexuality, ethnicity, and class on constructions of identity and community are explored through the study of style in popular culture and everyday life. Continuity and change in clothing and appearance styles are interpreted. GE credit: SocSci, Div, Wrt.—III. (III.) Kaiser

8. The Textile and Apparel Industries (4)

Lecture—4 hours. Textile and apparel industries including fashion theory, production, distribution, and consumption of textile goods. GE credit: SocSci, Div.—I. (I.) Rucker

92. Internship in Textiles and Clothing (1-12)

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

98. Directed Group Study (1-5)

Prerequisite: consent of instructor. (P/NP grading only.)