

credit on their transcripts for a Ph.D. with "Special Emphasis in Feminist Theory & Research."

Students must complete all the requirements for the Ph.D. in their home department. The requirements for the Designated Emphasis in Feminist Theory and Research are the successful completion of the two core courses, Women's Studies 200A and Women's Studies 200B, and two additional courses focusing on women and gender, one in the student's home department and one outside their home department. A member of the DE affiliated faculty must be a member of the student's qualifying examination. Analysis of gender is expected to be a central component of both the student's qualifying examination and doctoral research.

Students should consult with the chair of the Designated Emphasis in Feminist Theory & Research before enrolling in a graduate course for which they wish to receive credit to ensure that it will count toward fulfilling the requirements of the Designated Emphasis. If possible, please bring a copy of the syllabus or an expanded course description to your meeting.

Graduate Adviser. Consult the Women and Gender Studies office (530) 752-4686.

Fiber and Polymer Science

(College of Agricultural and Environmental Sciences)

Faculty. See under *Textiles and Clothing*, on page 492.

The Major Program

The Fiber and Polymer Science major is concerned with the physical, chemical, and structural properties of fibers and polymers and how these relate to fiber and polymer performance and end-use.

The Program. All students in this major take a common core of course work in chemistry, physics, and mathematics, and depth subject matter in fiber and polymer science, organic and physical chemistry, and technical writing. In the restricted electives, students select courses from areas such as computer science and mathematics, chemistry, marketing and management, material and advanced fiber and polymer science, and textiles.

Career Alternatives. The major prepares the student for a career in a wide range of industries in the areas of research and development, technical marketing and management, production, quality control, and science teaching (on completion of an additional year in the teaching credential program). The companies employing Fiber and Polymer Science graduates are in the fiber, polymer, industrial product, textile and/or chemical business. Graduates are prepared to enter the graduate program in textiles or agricultural and environmental chemistry with a specialization in fiber and polymer chemistry, and fiber and polymer science programs at other universities.

B.S. Major Requirements:

	UNITS
English Composition Requirement	7-12
See College requirement	0-8
Communication 1	4
University Writing Program 104A, 104B, 104C, 104D, 104E, or 104F	4
Preparatory Subject Matter	52-55
Chemistry 2A-2B-2C	15
Computer Science Engineering 15 or 30	4
Mathematics 16A-16B-16C or 21A-21B-21C	9-12
Physics 7A-7B-7C or 9A-9B-9C	12
Statistics 13 or Plant Sciences 120	4
Textiles and Clothing 6 and 8 or Engineering 45	8

Breadth/General Education 6-24

Satisfaction of General Education requirement; see Advising office for breadth requirement.

Depth Subject Matter 37

Textiles and Clothing 163, 163L 4
Fiber and Polymer Science 100, 150, 161, 161L, 180A, 180B 14
Chemistry 128A, 128B, 128C, 129A, 129B, 110A and 110C or 107A and 107B 19

Restricted Electives 30

Select courses from the following:
Computer Science and Mathematics: Plant Sciences 21; Engineering 5; Applied Science Engineering 115, 116; Mathematics 22A, 22B
Chemistry: Chemistry 108, 115, 120, 121, 124A, 124B, 124C, 131, 140
Marketing/Management: Agricultural and Resource Economics 100A, 100B, 113, 136, 157, Economics 1A, 1B, Statistics 103
Material and Advanced Fiber/Polymer Science: Aeronautical Science Engineering 137, Engineering 104, 104L, Textiles and Clothing 250A-F, 290, 293
Textiles: Textiles and Clothing 162, 162L, 164, 165, 173, 174

Unrestricted Electives 23-40

Total Units for the Degree 180

Major Adviser.

Y. L. Hsieh (*Textiles and Clothing*)

Advising Center

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

Minor Program Requirements:

	UNITS
Fiber and Polymer Science	18
Textiles and Clothing 6 or Engineering 45	4
Courses selected from the following: Fiber and Polymer Science 100, 150, 161, 161L, 180A and 180B; and Textiles and Clothing 163 and 163L	

Minor Adviser.

Y. L. Hsieh

Courses in Fiber and Polymer Science (FPS)

Upper Division Courses

100. Principles of Polymer Materials Science (3)

Lecture—3 hours. Prerequisite: Chemistry 2A-2B; Chemistry 8A-8B or Engineering 45; introductory physics. The basic principles of polymer science are presented including polymer structure and synthesis; polymerization mechanisms, polymer classes, properties, and reactions; polymer morphology, rheology, and characterization; polymer processing. (Same course as Materials Science Engineering 147.)—II. (II.) Pan

110. Plastics in Society and the Environment (4)

Lecture—3 hours; discussion—1 hour. Prerequisite: Chemistry 10 or introductory course in physical sciences. Basic concepts and methodologies in the study of plastics. Formation, classification, structure, properties, processing, and formulation. Their application to societal needs, and their impact on society and the environment. GE credit: SciEng or SocSci, Wrt.

150. Polymer Syntheses and Reactions (3)

Lecture—3 hours. Prerequisite: Chemistry 128B or 8B, and Chemistry 107A. Organic and physical chemistry aspects of polymer syntheses and reactions including polymerization mechanisms, kinetics and thermodynamics for major types of organic high polymers.—III. (III.) Hsieh

161. Structure and Properties of Fibers (3)

Lecture—3 hours. Prerequisite: Textiles and Clothing 6 and Chemistry 8B. The structure, properties and reactions of natural- and man-made fibers; the rela-

tions between molecular structure of fibers and their physical properties; interactions of fibers and detergents.—I. (I.) Hsieh

161L. Textile Chemical Analysis Laboratory (1)

Laboratory—3 hours. Prerequisite: course 161 (may be taken concurrently). Laboratory methods and procedures employed in qualitative and quantitative analysis of textile fibers and auxiliaries.—I. (I.) Hsieh

180A-180B. Introduction to Research in Fiber and Polymer Science (2)

Laboratory/discussion—6 hours. Prerequisite: senior standing in major related to Fiber and Polymer Science, and consent of instructor. Senior thesis on independent problems. Research begun in course 180A will be continued and completed in course 180B. (Deferred grading only, pending completion of sequence.)—I, II, III. (I, II, III.)

192. Internship in Fiber and Polymer Science (1-12)

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

197T. Tutoring in Fiber and Polymer Science (1-5)

Tutorial—3-15 hours. Prerequisite: upper division fiber and polymer science related major and consent of instructor. Tutoring of students in Fiber and Polymer Science courses. Assistance with discussion groups and laboratory sections under supervision of instructor. May be repeated for credit if tutoring in another Fiber and Polymer Science course. (P/NP grading only.)

198. Directed Group Study (1-5)

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

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

Prerequisite: upper division standing and consent of instructor. (P/NP grading only.)

Graduate Courses

250A-F. Special Topics in Polymer and Fiber Science (3)

Lecture—3 hours. Prerequisite: Fiber and Polymer Science 100 or consent of instructor. Selected topics of current interest in polymer and fiber science. Topics will vary each time the course is offered. (Same course as Materials Science and Engineering 250A-F.)—I, III. (I, III.) Hsieh, Pan, Sun

299. Research (1-12)

Independent study—3-36 hours. (S/U grading only.)

Professional Course

396. Teaching Assistant Training Practicum (1-4)

Prerequisite: graduate standing. May be repeated for credit. (S/U grading only.)—I, II, III. (I, II, III.)

Film Studies

(College of Letters and Science)

Elizabeth Constable, Ph.D., Program Director

Program Office. 524 Sproul Hall (530) 752-4999; <http://filmstudies.ucdavis.edu>

Committee in Charge

Moradewun Adejunmobi, Ph.D.

(*African and African-American Studies*)

Emily Albu, Ph.D. (*Classics*)

Elizabeth Constable, Ph.D. (*French*)

Jesse Drew, Ph.D. (*Technocultural Studies*)

Jaimey Fisher, Ph.D. (*German and Russian*)

Margherita Heyer-Caput, Ph.D. (*Italian*)

Michael Lazzara, Ph.D. (*Spanish*)

Pablo Ortiz, Ph.D. (*Music*)

Scott Simmon, Ph.D. (*English*)

Eric Smoodin, Ph.D. (*American Studies*)