tion, current research on specialization, and relevance of species to conservation biology. Offered in alter-
nate years.—II. Shкро

231. Principles of Biological Data Analysis (3)
Lecture—2 hours; laboratory—3 hours. Introduction to the principles of data analysis, experimental design, statistical modeling, hypothesis testing. Statistical methods of particular importance in biological applications will be emphasized. Examples will be presented from the fields of ecology and evolutionary genetics. Offered irregularly. (S/U grading only)—Rannala

240. Paleobotany and Angiosperm Evolution (4)
Lecture—3 hours; laboratory—3 hours. Prerequisite: Plant Biology 108, 116, or course 140. Critical analysis of the plant fossil record as a source of evidence on origin, evolution, and phylogeny of the angio-sperms, Cretaceous and Tertiary climates, geographic history of modern taxa, and origin of modern vegetation types. Offered irregularly.—Doyle

290C. Research Conference (1)
Discussion—1 hour. Prerequisite: graduate standing and consent of instructor. Presentation and discus-
sion of faculty and graduate student research in biology. May be repeated for credit. (S/U grading only)—I, II, III. (I, II, III)

296. Group Study (1-5)
(S/U grading only)

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

Professional

390. Methods of Teaching (2)
Lecture—1 hour; discussion—1 hour. Prerequisite: graduate standing and consent of instructor. Practi-
cal experience in the methods and problems of teaching. Includes analyses of texts and supporting material, discussion of teaching techniques and pre-
paring and conducting of laboratory and discussion sections. May be repeated for credit for a maximum of 8 units. (S/U grading only)—I, II, III. (I, II, III)

Exercise Biology
See Neurobiology, Physiology, and Behavior, on page 443.

Family and Community Medicine
See Medicine, School of, on page 396.

Feminist Theory and Research

Maxine Craig Ph.D., Advisor

Program Office, 2222 Hart Hall
530-752-6429
http://wms.ucdavis.edu/wgssite/

Graduate Study. The Gender, Sexuality and Women's Studies Program at UC Davis offers a Designated Emphasis in Feminist Theory & Research. Currently graduate students in the following fourteen affiliated Ph.D. programs are eligible to participate: Anthropology, Comparative Literature, Cultural Studies, Education, English, French, German, Geogra-

phy, History, Native American Studies, Performance Studies, Psychology, Sociology, and Spanish. The Designated Emphasis in Feminist Theory and Research affords graduate students in affiliated pro-
grams the opportunity to augment their Ph.D. in a given discipline with a specialization Feminist The-
yor and Research. Typically a doctoral student in good standing may seek admission to the Design-
ated Emphasis in Feminist Theory and Research and enroll in Designated Emphasis in Feminist The-
yor and Research courses. Those students in affili-
ated Ph.D. programs who complete the requirements of the Designated Emphasis will have this noted on their transcripts and their Ph.D. diploma will note the "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 offered by the Feminist Studies Program. Students interested in Feminist Theory and who have completed the coursework should contact the Feminist Studies Program for a course of study that is designed to meet the requirements of the Designated Emphasis.

Requirements for the Designated Emphasis in Feminist Theory and Research offer at least one prerequisite: A 600 level course in Feminist Studies.

B.S. Major Requirements:

Preparatory Subject Matter...........52-55
Chemistry 2A-2B-2C

Computer Science Engineering

15 or 30..

Mathematics 16A-16B-16C or 21A-21B

Physics 7A-7B-7C or 9A-9B-9C

Statistics 13 or Plant Sciences 120

Textiles and Clothing 4 and 8 or Engineering 45

Depth Subject Matter..............37-39

Textiles and Clothing 163, 163L


Restricted Electives..................30

Select courses from the following:


Total Units for the Degree.......119-124

Major Adviser. Y. L. Hsieh (Textiles and Clothing)

Advising Center for the major is located in 129B Ersson Hall 530-754-8368.

Minor Program Requirements:

Fiber and Polymer Science........18

Textiles and Clothing 6 or Engineering 45

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

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, prop-
erties, and reactions; polymer morphology, rheol-
y, and characterization; polymer processing. (Same course as Materials Science Engineering 147J GE credit: SciEng | OL, SE — 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 appli-
cation to societal needs, and their impact on society and the environment. GE credit: SciEng or SocSci, Wrt | SE, SS, WE.

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 reac-
tions including polymerization mechanisms, kinetics
Film Studies

See Cinema and Technocultural Studies, on page 195.

First-Year Seminar Program

Formerly Freshman Seminar Program

Christopher J. Thaiss, Ph.D., Program Director
Program Office, 1350 Surge III (Center for Excellence in Teaching and Learning); cell@ucdavis.edu; http://cell.ucdavis.edu/courses-and-events/
freshman-seminars/

Committee in Charge
Amy Clarke, Ph.D. (University Writing Program)
Haruko Sakakibara, Ph.D.
(East Asian Languages & Cultures)
Yuuko Uchikoshi, Ph.D. (School of Education)
W. Jeffrey Weidner, Ph.D.
(Neurobiology, Physiology and Behavior)

Courses in First-Year Seminar (FRS)

Questions pertaining to the following course should be directed to the instructor or to the Center for Excellence in Teaching and Learning.

Lower Division

1. First-Year Seminar (1)
   Seminar—1 hour. Open only to: students who have completed fewer than 45 quarter units; transfer students in their first academic year at UC Davis. Investigation of a special topic through shared readings, discussions, written assignments, term papers, and special activities such as fieldwork, site visits, laboratory work, etc. Emphasis placed upon student participation in learning. Students may take more than one First-Year Seminar, but may not take more than one in any given quarter. May be repeated for credit if topic differs. —I, II, III. (I, II, III.)

2. First-Year Seminar (2)
   Seminar—2 hours. Open only to: students who have completed fewer than 45 quarter units; transfer students in their first academic year at UC Davis. Investigation of a special topic through shared readings, discussions, written assignments, term papers, and special activities such as fieldwork, site visits, laboratory work, etc. Emphasis placed upon student participation in learning. Students may take more than one First-Year Seminar, but may not take more than one in any given quarter. May be repeated for credit if topic differs. —I, II, III. (I, II, III.)

3. First-Year Seminar (3)
   Seminar—1 hour. Open only to: students who have completed fewer than 45 quarter units; transfer students in their first academic year at UC Davis. Investigation of a special topic through shared readings, discussions, written assignments, term papers, and special activities such as fieldwork, site visits, laboratory work, etc. Emphasis placed upon student participation in learning. Students may take more than one First-Year Seminar, but may not take more than one in any given quarter. May be repeated for credit if topic differs. —I, II, III. (I, II, III.)

4. First-Year Seminar (2)
   Seminar—2 hours. Open only to: students who have completed fewer than 45 quarter units; transfer students in their first academic year at UC Davis. Investigation of a special topic through shared readings, discussions, written assignments, term papers, and special activities such as fieldwork, site visits, laboratory work, etc. Emphasis placed upon student participation in learning. Students may take more than one First-Year Seminar, but may not take more than one in any given quarter. May be repeated for credit if topic differs. —I, II, III. (I, II, III.)

Food Science

(College of Agricultural and Environmental Sciences)

The Major Program

Food science is a discipline in which biological, physical, and sensory sciences are integrated for the study of foods to ensure their safety, quality, and healthful properties. The food science curriculum encompasses food chemistry and biochemistry, food safety and microbiology, food processing and preservation, and sensory and consumer sciences.

Career Alternatives. Opportunities for employment include positions in the food and allied industries, government agencies, and educational and research institutions. Graduate study for the food science student may lead to the M.S. or Ph.D. degree in food science, or in related fields such as agricultural chemistry, biochemistry, microbiology, and nutrition.

B.S. Major Requirements:

Preparatory Subject Matter.......................... 61
University Writing Program 102F, 104A, or 104E
Communication 1
Mathematics 1A-1B-1C............................... 9
Biological Sciences 2A............................... 5
Chemistry 2A-2B-2C, 8A, 8B (or more advanced series)............................... 21
Physics 7A-7B-7C..................................... 12
Food Science and Technology 50.................... 3
Nutrition 10 (or approved substitute).............. 3

Depth Subject Matter................................... 49
Biological Sciences 102, 103........................... 6
Statistics 100........................................ 4
Microbiology 101...................................... 5
Food Science and Technology 100A, 100B, 101A, 101B, 103, 104, 104L, 110, 110L, 190................. 30
Food Science and Technology 117 or Statistics 106........................................ 4
Food Science and Technology 127 or 107.................. 4

Select one of the following five options:

Food Science Option

The Food Science option provides a broad exposure to food chemistry, food microbiology and food processing. Students find positions in quality assurance, product development, and food processing in the food industry.

Restricted Electives for the Food Science option......................................................... 18

The restricted electives can:

(1) Provide a broad exposure to students who would seek positions in quality assurance, product development, and processing in the food industry
(2) Prepare students for graduate study in food science or related programs
(3) Prepare students for professional school in the health sciences. Select courses from a