
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. SciEng | GE credit: OL, QL, SE, SL, VL, WE. —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.) GE credit: SciEng | OL, QL, SE, VL, WE. —I, II, III. (I, II, III.)

192. Internship in Fiber and Polymer Science (1-12) Internship—3-26 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 (1-3) Prerequisite: upper division standing and consent of instructor. (P/NP grading only)

Graduate

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, II, III. (I, II, III.) Hsieh, Pan, Sun

299. Research (1-12) Independent study—3-36 hours. (S/U grading only)

Professional

306. 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

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/

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. (P/NP grading only)—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. (P/NP grading only)—I, II, III. (I, II, III.)

Fisheries

See Animal Science, on page 153; Biological and Agricultural Engineering, on page 179; and Wildlife, Fish, and Conservation Biology, on page 544.

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 16A-16B-16C.......................... 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