ration of the concept of engagement based on lectures, self-reflection, discussions and three hours of K-12 school internships per week. III, III.)

92. Internship in Science and Society (1-12) Internship—3-36 hours. Prerequisite: lower division standing and consent of instructor. Supervised internship on and off campus, in or in institutional settings. (P/NP grading only.)

97T. Tutoring in Science and Society (2-3) Discussion/lecture—6.9 hours. Prerequisite: lower division standing; completion of course being tutored; consent of instructor. Tutoring in undergraduate Science and Society courses. Assisting with leading discussion groups under supervision of instructor(s) and teaching assistants. Acting as liaison between the students and course instructor(s) to facilitate effective communication and interaction. May not be repeated. (P/NP grading only.)

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

99. Special Study for Undergraduates (1-5) Discussion—3-15 hours. Prerequisite: lower division standing and consent of instructor. (P/NP grading only.)

Upper Division

110. Applications of Evolution in Medicine, Human Behavior, and Agriculture (4) Lecture—2 hours; discussion—1 hour; term paper. Prerequisite: Biological Sciences 2A, 2B, and 2C. Class size limited to 20 students. Applications of evolutionary biology in medicine, human behavior, and agriculture. Examination of the imprint of evolution on the human life cycle from conception to death. GE credit: SciEng | SE, S.II, W.E.—III. (III.)

120. Science and Contemporary Societal Issues (3) Lecture/discussion—3 hours. Prerequisite: upper division standing. Study of a contemporary societal issue/problem emphasizing critical thinking with information drawn from several disciplines. Multiple instructors illustrate the necessity of an interdisciplinary and cooperative approach in solving important issues. Topic will vary. May be repeated one time for credit. Course not offered every year. GE credit: SciEng or SocSci, Wrt | SE or SS.—III. (III.)


130. Contemporary Leadership (4) Lecture—3 hours; seminar—1 hour. Prerequisite: consent of instructor. Leadership, including issues, skills, and practices as they relate to individuals, organizations, diverse social settings and communities. Written and verbal communications, personality styles for collaborative work, and ethics. Limited enrollment. GE credit: OL—II, III. (II, III) King

125S. Biodiversity and Society in South Africa (4) Lecture/discussion—3 hours; term paper or discussion—2 hours; fieldwork—2 hours. Prerequisite: acceptance into the Quarter Abroad Program “Biodiversity & Conservation in South Africa” and attendance in South Africa. Biodiversity in social context of South Africa; race, politics and conservation; use of indigenous plants and animals, weeds; water issues; evolution and adaptive field trips. Offered irregularly. GE credit: SciEng or SocSci, Div, Wrt | SE or SS.—II. Cranston, Gullan

140. Genetics and Social Issues (4) Lecture/discussion—3 hours; discussion—1 hour. Prerequisite: Biological Sciences 1A, 1B, 1C. Social issues arising from the development and use of modern methods of biotechnology. Presentation, evaluation, and critical discussions of the present and future impact of biotechnology on society. Not open for credit to students who have completed course 20. GE credit: SocSci, Wrt.—II. (II.)


192. Internship in Science and Society (1-12) Internship—3-36 hours. Prerequisite: upper division standing and consent of instructor. Supervised internship on or off campus, in the community, or in institutional settings. (P/NP grading only.)

197T. Tutoring in Science and Society (1-5) Prerequisite: consent of instructor. (P/NP grading only.)

199. Special Study in Science and Society (1-5) Prerequisite: upper division standing and consent of instructor. (P/NP grading only.)

Graduate

298. Group Study (1-5) Prerequisite: consent of instructor. May be repeated for credit when topic differs. (S/U grading only.)

299. Graduate Research (1-12) Prerequisite: graduate student and consent of instructor. May be repeated for credit. (S/U grading only.)

Professional

390. Teaching Methods in Science and Society (1) Discussion—1 hour. Prerequisite: graduate level and consent of instructor. Practical experience in methods and problems related to teaching Science and Society courses. Directed for credit tutoring pedagogies specific to teaching of science-societal issues, preparing for and conducting discussion sessions, analyses of texts and supporting material, formulation of assignments, exams. May be repeated for credit. (S/U grading only.)—I, II, III. (II, III)

Science and Technology Studies

(College of Letters and Science) Joseph Dumit, Ph.D., Program Director

Program Office. 1240 Social Sciences and Humanities Building 530-752-0703; http://sts.ucdavis.edu

Committee in Charge

Courses in Science and Technology Studies (STS)

**Lower Division**

1. **Introduction to Science, Technology, and Medicine Studies (4)**

   Lecture—3 hours; discussion—1 hour. History, philoso-
   phy, sociology, politics, and cultural studies of science,
   technology, and medicine. Emphasis on a broad
   range of perspectives. GE credit: SciEng or
   SocSci | SS, WE. —Carroll

2. **Methods in Science, Technology, and Medicine Studies (4)**

   Lecture/discussion—3 hours; extensive writing. Pre-
   requisite: course 1 recommended. Methodological
   issues concerning the historical, philosophical, socio-
   logical, ethical, and political analysis of science, tech-
   nology, and medicine. Detailed case studies to
   illustrate different methods of analysis. GE credit:
   SciEng or SocSci, Writ | SS, VL. —Carroll

3. **Drugs, Science and Culture (4)**

   Lecture—3 hours; discussion—1 hour. Drugs, poli-
   tics, society in a cultural context. Emphasis on roles
   of science, government and the media in shifting atti-
   tudes toward alcohol, marijua-
   na, Prozac and other pharmaceuticals; drug laws,
   war on drugs and global trade in sugar, opium, cocaine.
   (Same course as Anthropology 32.)
   GE credit: SciEng or SocSci, Writ | SS, VL. —Carroll

4. **Environmental Toxicology (4)**

   Lecture—3 hours; discussion—1 hour. Effects of tech-
   nology on the environment. Recent developments in
   environmental laws, enforcement, pollution, toxic
   chemicals, science, society in a cultural perspective.
   Consideration of future directions. (Same course as
   Anthropology 154.) GE credit: SciEng, Div | SS.

**Upper Division**

108. **Intellectual Property in Science (4)**

   Lecture/discussion—4 hours. Prerequisites: course 1,
   or other Social Science or Humanities writing course.
   Historical and conceptual framework for con-
   temporary debates about intellectual property and
   science. Topics include US patent system and copy-
   right law, international and international
   industrial policy, credit in academic and industrial science,
   role of IP in global knowledge. GE credit: SocSci,
   Writ | ACCH, SS.

109. **Visualization in Science (4)**

   Lecture—3 hours; extensive writing or discussion—1
   hour. Prerequisite: course 1 or 20 or Anthropology
   2. Anthropological approaches to scientific visual-
   ization techniques, informatics, simulations. Exam-
   ination of scientific visualization to understand the work involved in producing them,
   critical assessment of their power and limits, espe-
   cially when visualization is used as social media.
   Offered in alternate years. (Same course as
   Anthropology 149.) GE credit: SocSci, Writ | SS,
   VL, WE. —Dumit

120. **Religion, Magic and Science (4)**

   Lecture—3 hours; extensive writing. Religion, magic,
   and science from the Stone Age to the present. Con-
   trast between modern scientific methodology and
   religious and magical thinking. (Same course as
   Religious Studies 109.) Offered in alternate years.
   GE credit GE credit: ArtHum, Div, Eth | AH, VL,
   VL, Writ | ACCH, SS.

121. **Special Topics in Medical Anthropology (4)**

   Lecture/discussion—4 hours. Prerequisite: course 1
   or Anthropology 2. Introduction to clinical medical
   anthropology. Topics include anthropological analy-
   sis of biomedicine, psychiatry, systems of knowl-
   edge and healing, the body, emotions, and clinical
   encounters in a cross-cultural perspective. (Same
   course as Anthropology 121.) GE credit: SocSci,
   Div, Writ | SS, VL, WE.

129. **Health and Medicine in a Global Context (4)**

   Lecture/discussion—4 hours; term paper. Prerequi-
   site: course 1 or Anthropology 2. Recent works in
   medical anthropology and studies of medicine dealing with global health issues such as
   AIDS, pandemics, clinical trials, cultural differences in illnesses, diabetes, drug trafficking, medical
   technology and delivery, illegal narcotics, and oth-
   ers. (Same course as Anthropology 129.) GE credit:
   SocSci, Div, Writ | SS, WE. —Dumit

130A. **From Natural History to the History of Nature (4)**

   Lecture/discussion—3 hours; term paper. Prerequisite:
   History 135A recommended. Evolution and diversity
   of natural history as a discipline from Aristote-
   lie to Linnaeus. Considers ancient views of nature and
   environmental rededication; the emergence of
   biology, botany, geology, and zoology; the history of
   taxonomy and classification. Offered in alternate
   years. GE credit: ArtHum or SciEng, Writ | AH or
   SE, WE.

130B. **History of Modern Biology (4)**

   Lecture/discussion—3 hours; term paper. Prerequisite:
   course 130A recommended. Development of modern
   biological theory from pre-Darwinian roots to the
   present. Considers historical, social, and political
   specialties and consolidation of biological theory around evolutionary ideas.
   History of allied fields such as genetics, paleontology, embryology, ecol-
   ogy, and molecular biology. GE credit: ArtHum or
   SciEng, Writ | AH or SE, WE.

131. **Darwin (4)**

   Lecture—3 hours; term paper. Prerequisite: upper di-
   vision standing or consent of instructor. Students will
   explore the life and times of Charles Darwin and
   will trace the development of evolutionary thinking
   before and after the *Origin of Species* to appreci-
   ate its place in Victorian society and in the corpus of
   Darwin’s thought. GE credit: ArtHum or SciEng,
   Writ | AH or SE, WE. —Griesemer

151. **Media Theory (5)**

   Lecture—2 hours; discussion—1 hour; film view-
   ing—3 hours; extensive writing. Critical and theoret-
   ical approaches to the emergence of new
   technologies since the invention of photography.
   Examine various approaches to media (formalist,
   semiotic, structuralist, Frankfurt School, cybernetics,
   visual and gamer theory). (Same course as Cinema
   and Technocultural Studies 150.) GE credit: AH or
   SS, OL, VL, Writ | ACCH, SS.

150. **Gender and Science (4)**

   Lecture/discussion—3 hours; term paper. An inter-
   disciplinary approach to the relations between gen-
   der and science. Topics include the biological and
   cultural construction of sexual difference, the role
   of women as practitioners of science, and feminist
   approaches to science. GE credit: SocSci, Div,
   Writ | ACCH, DD, SS, WE.

160. **Ghost of the Machine: How Technology Rewires our Senses (4)**

   Lecture—3 hours; extensive writing or discussion—1
   hour. Historical, aesthetic and critical approaches to
   how information technologies produced ghost effects
   or a sense of terror in response to new media like
   the photograph, gramophone, film, typewriter, com-
   puter, and Turing Machine. Focus on technological
   media transforms sense perception. Offered in alter-
   nate years. (Same course as Technocultural Studies
   160.) GE credit: ArtHum or SocSci | ACCH, AH or
   SS, VL, Writ | ACCH, SS, WE. —Rawley-Begay

161. **Time: Mechanism and Measurement (4)**

   Lecture/discussion—3 hours; term paper. Prerequi-
   site: course 1. Cultural concepts of time; units and
   instruments of time measurement; historical differ-
   ences in the social organization of time; and time
   measurement in twentieth-century science. GE credit:
   SocSci, Writ | SS, WE.
Sexuality Studies

Two Elective courses from Field B [below] or seminars/individual study by petition to achieve a total of 18-20 units.

African American Studies 115, Asian American Studies 112, Chicana/o Studies 160, English 166, German 145, History 132, Political Science 152, Sociology 120, Women and Gender Studies 140, Women and Gender Studies 179

Restrictions.

(A) Students may take no more than one lower division course to satisfy requirements for the minor. (B) To satisfy the interdisciplinary component of the minor, students must either split their coursework roughly equally between two programs/departments or take coursework in at least three programs/departments. (C) Students may petition the minor adviser to accept Special Topics courses and Capstone/Senior Seminars as additional courses, as long as their course of study follows the minor’s lower-division restriction and interdisciplinary requirements. (D) Students may petition the minor adviser to accept up to four units of registered individual study, group study or internship towards the minor program, as long as their course of study follows the minor’s lower-division restriction and interdisciplinary requirements.

Advising. Program in Women and Gender Studies, 2222 Hart Hall 530-752-6429

Social and Ethnic Relations

[College of Letters and Science]

The interdisciplinary minor in Social and Ethnic Relations explores the racial, ethnic, class and gender aspects of human relations in the modern world. Students study human societies and cultures from a multi-ethnic perspective and across established academic departmental lines. The minor is jointly sponsored by African American and African Studies, Asian American Studies, Chicana/o Studies, American Studies, Native American Studies, and Women and Gender Studies.

Minor Program Requirements:

UNITS

Select one course from each of the following six groups to total 24 units:

(A) African American and African Studies 100, Anthropology/Native American Studies 134, Women’s Studies 102
(B) African American and African Studies 123, 133, 145A
(C) Asian American Studies 1, 2, 100, 110, 130
(D) Chicana/o Studies 130, 132
(E) Native American Studies 1, 10, 115, 119, 130A, 130B, 130C, 135, 157, 180
(F) Women’s Studies 103, 104, 180

Restrictions. (A) Courses applied toward the satisfaction of a major may not also be offered in satisfaction of the minor. (B) No more than four units (one course) may be lower division.

Advising. Contact the Program in Women and Gender Studies in 2222 Hart Hall 530-752-4868. Contact the Program in American Studies, 3131 Hart Hall, ethnicsstd@ucdavis.edu.