of cultural diversity upon corporate cultures, both from within and in contact with foreign corpora-

tions. —III. (III) Smoodin

130. American Popular Culture (4) Lecture/discussion—3 hours; fieldwork—1 hour. Prerequisite: course 1 or upper division standing. American popular expression and experience as a cultural system and the relationship between this system and elite and folk cultures. Exploration of the-ories and methods for discovering and interpreting patterns of meaning in American popular culture. GE credit: ArtHum or SocSci, Div, Wrt | ACGH, AH or SS, DD, WE.—II, II. Sze

158. Technology and the Modern American Body (4) Lecture/discussion—3 hours; term paper. Prerequisite: Technocultural Studies 1 and either course 1A or 1B. 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 Technocultural Studies 158.) GE credit: GE credit: ArtHum | ACGH, AH, WE.—I, II. Sze

160. Undergraduate Seminar in American Studies (4) Seminar—3 hours; term paper. Prerequisite: open to junior and senior American Studies majors only. Intensive reading, discussion, research, and writing by small groups in selected topics of American Studies scholarship; emphasis on theory and its applica-tion to American material. Limited enrollment. May be repeated one time for credit when content dif-

fers. —II, III, III. (III) Sze


190B. Senior Thesis (4) Independent study—12 hours. Prerequisite: senior standing in American Studies major and course 190A. In consultation with advisor, student writes an extended research paper on a topic proposed in course 190A. —I, II, III. (II, III, III.)

192. Internship in American Institutions (1-12) Internship—1—12 hours. Prerequisite: enrollment dependent on availability of intern positions, with priority to American Studies majors. Supervised internship and study within and about key organiza-tions in American civilization at archives, museums, schools, historical societies, governmental and social agencies, etc., with attention to the techniques of participant observation and the collection of ethnograp-hical data. May be repeated for credit for a total of 12 units. (P/NP grading only.)

197T. Tutoring in American Studies (1-5) Tutorial—1—5 hours. Prerequisite: consent of Chair-

person of American Studies Program. Tutoring in lower division American Studies courses, usually in small discussion groups. Periodic meetings with the instructor in charge, reports and readings. May be repeated for credit when the tutoring is for a different 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: consent of instructor and chairperson of American Studies Program. (P/NP grading only.)

Graduate

220. American Folklore and Folklife (4) Seminar—3 hours; term paper. Prerequisite: gradu-ate standing or consent of instructor. Theory and methods for the study of the folklore and the folk cus-
tomy behavior of Americans; contributions of folk-
lore studies to scholarship in humanities and social science disciplines. —III. (III.) Turner

250. Cultural Study of Masculinities (4) Seminar—3 hours; term paper. Prerequisite: gradu-ate standing or consent of instructor. Interdisciplinary approaches to understanding the social and cultural construction of masculinities; attention to the effects of biology, gender, race, class, sexual and national identities; criticism of oral, printed, visual, and mass mediated texts, and of social relations and struc-tures. [Same course as Women’s Studies 250.]—II.

255. Food in American Culture (4) Seminar—3 hours; term paper. Prerequisite: gradu-ate standing or advanced undergraduate with con-

sent of instructor. Interdisciplinary theory and methods for the study of food in American culture; food studies in relation to issues of identity (age, gender, ethnicity, religion, region, etc.); social rela-
tions, systems of production, and cultures of con-
sumption. Offered irregularly. Biltekoff, de la Pena

298. Group Study in Animal Biology (1-5) Prerequisite: graded standing.

299. Individual Study (1-12) Prerequisite: consent of instructor. (S/U grading only.)

Professional

396. Teaching Assistant Training Practicum (1-4) Prerequisite: graded standing. May be repeated for credit. (S/U grading only.)—I, II, III. (I, II, III.)

Anatomy

See Anatomy, Physiology and Cell Biology, on page 149; and Courses in Cell Biology and Human Anatomy (CHA), on page 401.

Anatomy, Physiology and Cell Biology

See Veterinary Medicine, School of, on page 339.

Anesthesiology and Pain Medicine

See Medicine, School of, on page 396.

Animal Behavior (A Graduate Group)

Thomas P. Coombs-Hahn, Ph.D., Chairperson of the Group

Group Office, 310 Life Sciences 530-752-2901; Fax 530-752-8822; animalbehavior@biosci.ucdavis.edu

Quarter Offered: I-Fall, II-Winter, III-Spring, IV-Summer; 2015-2016 offering in parentheses

Pre-Fall 2011 General Education (GE): ArtHum—Arts and Humanities; SciEng—Science and Engineering; SocSci—Social Sciences; Div—Domestic Diversity; Wrt—Writing Experience

Fall 2011 and on Revised General Education (GE): AH—Arts and Humanities; SE—Science and Engineering; SS—Social Sciences; ACGH—American Cultures, DD—Domestic Diversity; DL—Oral, Cultural Skills, DC—Quantitative, SL—Scientific, VL—Visual, WC—World Cultures, WE—Writing Experience

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Anatomy
Animal Biology

There is an application deadline of Dec 15 for fall quarter.

Preparation: Appropriate preparation is a bache-lo-r’s or master’s degree in a discipline relevant to the biology of behavior. In addition, at least one course from each of the following areas must be taken before admission into the program or before the end of the first year in the program:

Ecology: e.g., Evolution and Ecology 101, Environmental Science and Policy 100
Genetics: e.g., Biological Sciences 101
Statistics: e.g., Statistics 102 or Psychology 103
Evolution: e.g., Evolution and Ecology 100
Animal Behavior: Neurobiology, Physiology, and Behavior 102
Physiology: e.g, Neurobiology, Physiology, and Behavior 101

Core Requirements: Students take two "breadth" courses, at least one course in statistics, a methodology and grant writing course, and a graduate seminar. Required courses:

Methodology and Grant Writing: Animal Behavior 201
Graduate Seminars: Animal Behavior 290

Stratum: After completing a course on teaching science: Biological Sciences 310, Psychology 390A, 390B.

Electives: Students also take two additional courses (of at least 3 units each) in the student's area of specialization, chosen in consultation with and approved by the Course Guidance Committee.

Strongly recommended: at least one additional course in statistics or modeling. In addition to the above listed core-modeling courses, includes Population Biology 231 and Psychology 120.

Courses in Animal Behavior (ANB)

Graduate

201. Scientific Approaches to Animal Behavior Research (3)
Lecture—3 hours. Prerequisite: consent of instructor. Philosophical issues, goals, strategies and tools in behavior research. In addition to the above listed core-modeling courses, includes Population Biology 231 and Psychology 120.

218A. Fundamentals of Animal Behavior (5)
Lecture/discussion—4 hours; discussion—1 hour. Prerequisite: consent of instructor; upper-division undergraduate introduction to the biology of behavior, such as Psychology 101, 122, 123, Neurobiology, Physiology, and Behavior 102, 150, 152, Wildlife, Fish, and Conservation Biology 141, Entomology 104, or Animal Science 103. Survey of the phenomena and theory of animal behavior from the perspectives of multiple biological disciplines, including evolution, ecology, psychology, genetics, neurobiology, endocrinology, and animal science. (Same course as Psychology 218A.)—I. (II) Schank

218B. Fundamentals of Animal Behavior (5)
Lecture/discussion—4 hours; discussion—1 hour. Prerequisite: consent of instructor; course 218A or Psychology 218A. Survey of the phenomena and theory of animal behavior from the perspectives of multiple biological disciplines, including evolution, ecology, psychology, genetics, neurobiology, endocrinology, and animal science. (Same course as Psychology 218B.)—II. (II) Sih

221. Animal Behavior, Ecology and Evolution (3)
Lecture—2 hours. Prerequisite: Neurobiology, Physiology, and Behavior 102, Evolution and Ecology 101, 101 or the equivalent, graduate standing, and consent of instructor. The interface between animal behavior, ecology, and evolution. New developments in behavioral ecology and development and testing of hypotheses in this discipline. (Same course as Population Biology 221.)

230A. Interdisciplinary Approaches to Animal Behavior (5)
Seminar—3 hours; term paper. Prerequisite: consent of instructor. Analysis of literature in behavior and an allied discipline or disciplines that offer the potential, in combination, to advance our understanding of a topic in animal behavior conceptually and empirically. Topics will vary from year to year.

230B. Interdisciplinary Approaches to Animal Behavior (5)
Workshop—4 days total; discussion—3 hours; term paper. Prerequisite: course 230A the previous quarter. Development of an empirical or theoretical interdisciplinary approach to research on a current topic in animal behavior.

270. Research Conference in Behavioral Ecology (1)
Conference—1 hour. Prerequisite: graduate standing and consent of instructor. Critical presentation and evaluation of current literature and ongoing research in behavioral ecology and enrollment. May be repeated for credit. (S/U grading only.)

287. Advanced Animal Behavior (2)
Seminar—2 hours. Prerequisite: graduate standing and consent of instructor, courses in animal behavior (Neurobiology, Physiology, and Behavior 102 or the equivalent), and either evolution (Evolution and Ecology 100 or the equivalent) or ecology (Evolution and Ecology 101 or the equivalent). Reading, reports and discussion on current topics in animal behavior, with a focus on topics that lie at the interface between animal behavior, ecology and evolution. (Same course as Population Biology 287.) May be repeated two times for credit.

290. Seminar in Animal Behavior (1-3)
Seminar—1-3 hours. Prerequisite: consent of instructor. Selected topics in animal behavior. (S/U grading only.)—I, II, III. (I, II, III)

294. Seminar in Behavioral Ecology of Predators and Prey (3)
Seminar—2 hours. Prerequisite: graduate standing. Presentation and analysis of research papers on social and foraging behavior of predator animals, antipredator strategies, co-evolution of predators and prey, and ecology of predator prey interactions. May be repeated two times for credit. (Same course as Wildlife, Fish, and Conservation Biology 294.) Offered in alternate years.—II. Caro

298. Group Study (1-5)
Seminar—1-4 hours. Prerequisite: consent of instructor. Development of an empirical or theoretical interdisciplinary approach to research on a current topic in animal behavior. May be repeated for credit. (S/U grading only.)

Animal Biology

(Cooperative of Agricultural and Environmental Sciences)
Department of Entomology and Neurobiology

Faculty
Edward P. Caswell-Chen, Ph.D. Professor
Joanna Chiu, Ph.D., Assistant Professor
Brian R. Johnson, Ph.D., Assistant Professor
Neal M. Williams, Ph.D., Associate Professor
Robert Kimsey, Ph.D., Lecturer

The Major Program
The Animal Biology major offers students training in the biological and natural sciences as they apply to animals. The major covers the basic biological sciences that explain animal evolution, systematics, ecology, physiology and molecular biology. Students in the Animal Biology major are encouraged to think beyond particular groups of animals in which they are interested and to consider science as a process and a way of advancing society. Emphasis is on biological principles that can be used in research or in solving societal problems associated with animals in agriculture, urban areas, or natural environments.

The Program. The Animal Biology major consists of core courses in the biological sciences that build an understanding of animal biology from the molecular to the ecological and evolutionary levels of organization. After completing these core courses, students have the option of specializing in various interdisciplinary aspects of animal biology, and plan their chosen emphasis of study as part of a required discussion course and in consultation with their advisor. The Animal Biology major emphasizes courses on biological principles as opposed to courses on animal care and husbandry. This program includes a senior thesis, which each student designs to bridge the disciplines of the major.

Internships and Career Alternatives. The program and interests of each student in solving societal problems guides him or her to logical internship and career choices. On- and off-campus internship opportunities are available in research laboratories, in field situations, with governmental agencies, with private industry, and in international programs. A degree in Animal Biology prepares students for careers in research, teaching, governmental regulation, health or agriculture as each relates to the integrative biology or ecology of animals. Careers in veterinary medicine, animal husbandry and animal management are open to Animal Biology majors; however, other preparation may be required. Students in the major gain research experience and may choose to continue their training at the graduate or professional level in a variety of biological disciplines.

B.S. Major Requirements:

UNITS
Preparatory Subject Matter............. 68-74
Biological Sciences 2A, 2B, and 2C .... 14
Chemistry 2A-2B, 2C, and 8A-8B or 118A- 118B.............. 21-23
Mathematics 1A-1B-1C or 1A-1B-1C or 1A-1B-1C.............. 9-12
Physics 7A-7B-7C.............. 12
One course from: Statistics 13 or 100 or Agricultural Management and Rangeland Resources 120.............. 4
Animal Biology 50A, 50B, 50C.............. 8
Depth Subject Matter............... 29-38
Biological Sciences 101 or 102 or 103 or Biological Sciences 201 or 202 or 203.............. 6-10
One course from: Neurobiology, Physiology, and Behavior 101, 117, Entomology 102, Wildlife, Fish, and Conservation Biology 121.............. 3-5
One course from: Anatomy, Physiology and Cell Biology 100, Entomology 101,