of economics and humanities. After completing preparatory courses, students focus on both the animal species that interest them (for instance, cattle, sheep, companion animals, goats, fish, crustaceans or mollusks, among others) and principles of managerial economics (marketing, finance, business organization or systems analysis). Students preparing for medical or veterinary school can meet professional entrance requirements with those of this major if they plan ahead.

Career Alternatives. Job opportunities for successful graduates are plentiful and include positions with banking and financial institutions, agribusiness, Peace Corps, and farms of all scales. Most Animal Science and Management graduates are well prepared for professional study (medical, veterinary, law, financial, and graduate school) or their current job. Students preparing for medical or veterinary school can meet professional entrance requirements with those of this major if they plan ahead.

Preparatory subject matter: 69-72

Animal Science 1 and 2 ............ 8
Biological Sciences 2A, 2B, and 2C .................. 13-15
Chemistry 2A, 2B, 2C, 2D .................. 16
Plant Sciences 21 or Computer Science Engineering 15 .................. 4
Economics 1A, 1B, Management 11A, 11B .................. 16
Mathematics 16A, 16B, and 16C or 17A-C or 21A-B-C .................. 9-12
Plant Sciences 120, Statistics 100 or 103, or other courses in quantitative skills with prior approval of the Master Adviser .................. 4

Depth Subject Matter: 27-30

Biological Sciences 101 ............ 4
Nutrition 115 .................. 4
Neurobiology, Physiology, and Behavior 101 ............ 5
Business Management 141
Agricultural and Resource Economics 100A,
One course from: Agricultural and Resource Economics 113, 130, 136, 138,
One course from: Agricultural and Resource Economics 120, 132, 140, 145, 157,
Plus one course from: Animal Science 128 or Agricultural and Resource Economics 155.

Area of Specializations: 14-16

Choose one area of specialization below:
Aquatic Animals .................. 16
Animal Science 18, 118 or 119, 131, and 148.
Companion Animals .................. 16
Animal Science 42, 140, 142, and 148.
Dairy Analysis: Students must include an intermediate course in animal sciences.
Animal Science 41, 41L, 146, 147, and 148.
Equine .................. 15
Livestock .................. 16
Animal Science 41, 41L, 143 or 144, 145, and 148.
Pet Animal Health: Students are plentiful and include a course in animal sciences.
Avian Sciences 11, Animal Science 143, 145, and 148.
Individualized .................. 14-16
Students may, with prior approval from their advisor and the Master Adviser, design their own individualized specialization within the major. The specialization will consist of 4 to 6 courses with one of the courses being Animal Science 148. The other courses may include introduction, care and management, and processing and/or marketing aspects of the animal of interest.

Restricted Electives: 8-10

At least two additional courses (minimum 8 units; duplicate from Depth courses not counted) selected with approval of advisor from:

Agricultural and Resource Economics 18, 112, 122, 123, 136, 138, 140, 142, 143, 144, 145, 150, 155, 157, 171A, 171B, 176; Animal Science 103, 104, 106, 115, 118, 120, 120L, 121, 122, 123, 124, 125, 126, 127, 128, 129, 131, 136, 137, 140, 141, 142, 143, 144, 145, 146, 147, 149, 170, 192, 194, 194H; Avian Sciences 100, 103, 115, 121, 123, 149, 150; Animal Genetics 101, 105, 107, 111; Nutrition 122, 123, 123L, 124; Animal Biology 102 (strongly recommended); 103, Computer Science Engineering 124; Management 100; Neurobiology, Physiology, and Behavior 117, 121, 121L, 130; Wildlife, Fish, and Conservation Biology 120, 120L, 130.

Total units for the major: 126-136

Anthropology

(College of Letters and Science)
Li Zhang, Ph.D., Chairperson of the Department
Department Office. 328 Young Hall
530-752-0745; http://www.anthropology.ucdavis.edu

Faculty
Robert E. Betzig, Ph.D., Professor
Monique Borgerhoff Mulder, Ph.D., Professor
Timothy K. Choy, Ph.D., Associate Professor
(Science and Technology Studies)
Margaret C. Crofoot, Ph.D., Assistant Professor
Christyann M. Davis, Associate Professor
Marisol de la Cadenas, Ph.D., Professor
Donald L. Donham, Ph.D., Distinguished Professor
Joseph Dumit, Ph.D., Professor
Eugene W. Eerkens, Ph.D., Professor
Cristiana Giordano, Ph.D., Assistant Professor
Lynne A. Isbella, Ph.D., Professor
Academic Senate Distinguished Teaching Award
Suad Joseph, Ph.D., Distinguished Professor
(Women and Gender Studies)
Alan Klima, Ph.D., Professor
Andrew J. Marshall, Ph.D., Associate Professor
Richard McEneath, Ph.D., Professor
Suzanna M. Sawyer, Ph.D., Associate Professor
Janet S. Shibamoto-Smith, Ph.D., Professor
David Glenn Smith, Ph.D., Professor
James H. Smith, Ph.D., Associate Professor
Smriti Srinivas, Ph.D., Professor
Teresa E. Steele, Ph.D., Associate Professor
Timothy D. Weaver, Ph.D., Associate Professor
Li Zhang, Ph.D., Professor
Nicolas Zwyna, Ph.D., Assistant Professor

Emeriti Faculty
David J. Boyd, Ph.D., Professor Emeritus
Richard T. Curley, Ph.D., Senior Lecturer Emeritus
William G. Davis, Ph.D., Professor Emeritus
Alexander H. Harcourt, Ph.D., Professor Emeritus
Sarah B. Hrdy, Ph.D., Professor Emerita
William G. Davis, Ph.D., Professor Emeritus
Peter S. Rodman, Ph.D., Professor Emeritus
Carol A. Smith, Ph.D., Professor Emerita
Suad Joseph, Ph.D., Distinguished Professor
Cristiana Giordano, Ph.D., Assistant Professor

The Major Program

Anthropology is the systematic study of human beings. The student of anthropology is interested in human biology, ecology, and social life—past and present—and gains a broad understanding of humans and societies. It is a diverse field, and the courses, faculty, and degree programs at UC Davis are subdivided into two wings—Evolutionary and Sociocultural.

Evolutionary. Evolutionary anthropologists are united by their common application of science to understand the behavior, ecological history, and evolution of humans and nonhuman primates, as individuals and as societies. The many useful approaches to these topics bring together archaeology, behavioral ecology, molecular anthropology, paleoanthropology, biogeography, conservation biology, and primatology. Archaeology is the study of the history or prehistory by analysis of a people’s artifacts, or studies human behavioral ecology, molecular anthropology, paleoanthropology, biogeography, conservation biology, and primatology. Archaeology is the study of the history or prehistory by analysis of a people’s artifacts, or studies human behavioral ecology, molecular anthropology, paleoanthropology, biogeography, conservation biology, and primatology. And then the department’s undergraduate courses are globalized and transcultural; human ecology and environmental change; cultures of healing, health and medicine, the global spread of media and technology; migration, multiculturalism and urban life; colonialism and neocolonialism development and post-development; race, class and gender; politics and the public; cultures of everyday life; language use and discourse; and self, identity and family. The track in sociocultural anthropology thus offers a rich set of resources for understanding and engaging pressing issues in a globalizing world characterized by new forms of international culture and community as well as by increasing material inequality and political volatility.

The Program. The Bachelor of Arts program is divided into two tracks, Sociocultural and Evolutionary, which parallel the two wings described above. Students interested in the study of recent and contemporary human languages and societies should follow the Sociocultural Track. A B.A. degree in sociocultural anthropology, each student is required to complete courses that provide (1) foundational skills, (2) language and cultural skills, (3) comprehensive skills, and (4) specialization skills. Students interested in the study of archaeology; primate studies; or human biology, ecology or origins should follow the Evolutionary Track. The B.A. degree offered by the Evolutionary Track provides a general education in anthropology from an evolutionary perspective. The Evolutionary Track also offers a B.S. degree that requires more rigorous lower division coursework in...
math and science than the A.B. degree and upper division coursework in biological anthropology and closely related disciplines.

Students in both tracks are encouraged to gain practical experience through courses taken while studying abroad (under the administration of the UC Davis Study Abroad) and through internships performed for credit (under the administration of the Internship and Career Center). Students showing exceptional ability are welcome to seek permission from instructors to participate in graduate seminars offered by the department and to have these courses count towards the fulfillment of upper division requirements for the major.

Career Alternatives. A Bachelor of Arts degree in Anthropology is suited for students seeking a solid liberal arts education. With its broad goal to facilitate understanding across lines of cultural difference, sociocultural anthropology prepares students for lives that are influenced by increasingly pervasive cultural exchange, as well as cultural conflict, around the world. The program serves as excellent preparation for careers in which inter-cultural skills are increasingly needed, including social and environmental activism, business, diplomacy and social administration, journalism, law, education and international relations. Students that focus on evolutionary processes will be well prepared to enter fields such as medical or health anthropology, museum studies, cultural resource management and wildlife conservation. A Bachelor of Science degree in Anthropology provides suitable pre-medical, pre-dental, and pre-veterinary training, and the education background for further training in the health professions, biological/evolutionary sciences and forensic investigation. The A.B. or B.S. degree in anthropology prepares students for graduate work in biological anthropology and closely related disciplines. The A.B. degree also provides the foundation for high school teaching in social, biological and natural sciences. An anthropology degree also provides good preparation for high school teaching in social, biological and natural sciences. Anthropology provides suitable pre-medical, pre-dental, and pre-veterinary training, and the education background for further training in the health professions, biological/evolutionary sciences and forensic investigation.

Evolutionary emphasis (3) A Bachelor of Science degree in Anthropology provides suitable pre-medical, pre-dental, and pre-veterinary training, and the education background for further training in the health professions, biological/evolutionary sciences and forensic investigation. A Bachelor of Science degree in Anthropology provides suitable pre-medical, pre-dental, and pre-veterinary training, and the education background for further training in the health professions, biological/evolutionary sciences and forensic investigation.

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1. Human Evolutionary Biology (4) Lecture—2 hours; laboratory—1 hour. Evolutionary theory and mechanisms of evolution; basic population and quantitative genetics; primatology; biological and cultural diversity within Homo sapiens; paleoanthropologists may not take both course 1 and course 1Y for credit. GE credit: SC, WE, IL, II, III, IV, (I, II, III, IV). Marshall, Weaver

2. Cultural Anthropology (4) Lecture—3 hours; discussion—1 hour. Introduction to cultural diversity and the methods used by anthropologists to study it; emphasis on roles of science, government and the media in shifting attitudes toward alcohol, marijuana, Prozac and other pharmaceuticals; drug laws, war on drugs and global trade in sugar, opium, cocaine. GE credit: SciEng or SocSci, Div | ACGH, AH or SS, DD, WC, WE.

3. Introduction to Archaeology (4) Lecture—3 hours; discussion—1 hour. Development of archaeological as an anthropological study; objectives and methods of modern archaeology. GE credit: SciEng or SocSci, Div | SE, SL.

4. Introduction to Anthropological Linguistics (4) Lecture—3 hours; discussion—1 hour. Exploration of the role of language in social interaction and world views; language as culture and dialects, bilingualism, literacy, the social motivation of language change. Introduction of analytical techniques of linguistics and demonstration of their relevance to language in sociocultural contexts. GE credit: SocSci, Div | ACGH, DD, SS, WC, WE.

5. Proseminar in Biological Anthropology (4) Seminar—3 hours; term paper. Prerequisite: course 1 and consent of instructor. Course primarily for majors. Integration of related disciplines in the study of biological anthropology through discussion and research projects. Prerequisite emphasis in human adaptation to the environment. GE credit: SciEng, Div | SE, OL, WE.


15. Behavioral and Evolutionary Biology of the Human Life Cycle (5) Lecture—3 hours; discussion—1 hour; term paper. Introduction to the biology of birth, childhood, marriage and the family, old age, and death. Examination of the comparative characteristics of nonhuman primates and other animals as well as cross-cultural variation in humans by study of selected cases. GE credit: SciEng, Div | SE, SL, WE.

20. Comparative Cultures (4) Lecture—3 hours; discussion—1 hour. Introduction to the anthropological study of cultural diversity. Case studies of eight societies will be presented to illustrate and compare the distinctive features of major cultural regions of the world. Concludes with a discussion of modernization. GE credit: ArtHum or SocSci, Div | ACGH, AH or SS, DD, WC, WE.

23. Introduction to World Prehistory (4) Lecture—2 hours; laboratory—1 hour. Broadly surveys patterns and changes in the human species’ physical and cultural evolution from earliest evidence for “humanness” to recent development of large-scale complex societies or “civilizations.” Lectures emphasize use of archaeology in reconstructing the past. GE credit: SocSci, Div | ACGH, AH or SS, WC, WE.

24. Ancient Crops and People (4) Lecture—3 hours; discussion—1 hour. The archaeology of domestication; investigation of plants and the origins of agricultural societies. Anthropological context of agriculture and the effects on sexual division of labor, social inequality, wealth accumulation, warfare, human health, and sedentism. GE credit: SocSci, Div | ACGH, AH or SS, WE.

26. Mummies of the Ancient World (2) Lecture—2 hours. Archaeological approaches for studying mummies and the process of mumification in the ancient world. Technical techniques used, environmental factors promoting mumification, and archaeological conservation of mumified bodies. Offered in alternate years. GE credit: SS, WS, WC, IL, Etkens

30. Sexualities (4) Lecture/discussion—4 hours. Introduction to the study of sexuality, particularly to the meanings and social organization of same-sex sexual behavior across cultures through time. Biological and cultural approaches will be compared, and current North American issues placed in a wider comparative context. GE credit: ArtHum or SocSci, Div | ACGH, AH or SS, DD, WC.

32. Drugs, Science and Culture (4) Lecture—3 hours; discussion—1 hour. Drugs, politics, science, society in a cultural perspective: emphasis on roles of science, government and the media in shifting attitudes toward alcohol, marijuana, Prozac and other pharmaceuticals; drug laws, war on drugs and global trade in sugar, opium, cocaine. (Same course as Science and Technology Studies 1 or GE credit: ACGH, Div | SS, VL, WE.

34. Cultures of Consumerism (4) Lecture/discussion—4 hours. Readings of mass media, political, consumerism literature, and contemporary record albums. Course will include analysis of different visualization techniques toward understanding the work involved in producing them, critical assessment of their power and limits, especially when visualizations are used socially to make claims. Offered in alternate years. (Same course as Science and Technology Studies 109.) GE credit: SocSci, Div | SS, VL, WE.


54. Introduction to Primatology (4) Lecture/discussion—3 hours; term paper. Basic survey of the primates as a separate order of mammals; natural history and evolution of primates; consideration of hypotheses for their origin. GE credit: SciEng, Div | SE, SL, WE.

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

99. Special Study for Lower Division Students (1-5) Prerequisite: consent of instructor. (P/NP grading only)

100. Theory in Social-Cultural Anthropology (4) Lecture—3 hours; discussion—1 hour. Prerequisite: course 2 or consent of instructor. Discussion of the theoretical and philosophical developments in cultural anthropology from the 19th century to the present. Not open for credit to students who have completed course 137. (Former course 137.) GE credit: SocSci | SS, WE.

101. Ecology, Nature, and Society (4) Lecture—3 hours; discussion—1 hour. Prerequisite: course 1 or 2 or Environmental Science and Policy 30 or Evolution and Ecology 100 or Biological Sciences 101. Interdisciplinary study of diversity and change in human societies, using frameworks from anthropology, evolutionary ecology, history, archaeology, psychology, and geography. Topics include: population dynamics, subsistence transitions, family organization, disease, economics, warfare, politics, and resource conservation. (Same course as Environmental Science 101.) GE credit: SocSci, Div | SS, WE.

103. Indigenous Peoples and Natural Resource Conservation (4) Lecture—3 hours; discussion—1 hour. Prerequisite: course 2 or Geology 1 or Environmental Science and Policy 30. Integration of the interests of resident and indigenous peoples with the conservation of natural resources and ecosystem services using case studies from both the developing and the developed world. Not open for credit to students who have completed course 121N. (Former course 121N.) GE credit: SocSci | ACGH, DD, OL, SS, WC, WE.

104N. Cultural Politics of the Environment (4) Lecture—3 hours; discussion—1 hour. Prerequisite: course 2 or consent of instructor. Political economy of environmental struggles. Relationship between social inequality (based on race, class, and/or gender) and ecological degradation. Articulation of local peoples, national politics, and global economic/global ecology in the contestation over the use of environmental resources. Not open for credit to students who have completed course 134N. (Former course 134N.) GE credit: SocSci, Div | ACGH, DD, SS, WC, WE.

105. Evolution of Societies and Cultures (4) Lecture—3 hours; discussion—1 hour. Prerequisite: course 1 or 2 or Environmental Science and Policy 30 or Evolution and Ecology 100 or Biological Sciences 101. Interdisciplinary study of social and cultural evolution in humans. Culture as a system of inheritance, psychology of cultural learning, culture as an adaptive system, evolution of maladaptations, evolution of technology and institutions, evolutionary transitions in human history, coevolution of genetic and cultural variation. Only two units of credit to students who have completed courses 134N and Policy 101 or course 101 prior to fall 2004. (Same course as Environmental Science and Policy 105.) GE credit: SocSci, Div | QL, SS, WC, WE.

109. Visualization in Science: A Critical Introduction (4) Lecture—3 hours; extensive writing or discussion—1 hour. Prerequisite: course 2 or Science and Technology Studies 1 or Science and Technology Studies 20. Anthropological approaches to scientific visualization techniques, informatics, simulations. Examination of different visualization techniques toward understanding the work involved in producing them, critical assessment of their power and limits, especially when visualizations are used socially to make claims. Offered in alternate years. (Same course as Science and Technology Studies 109.) GE credit: SocSci, Div | SS, VL, WE.

110. Language and Sociocultural Anthropology (4) Lecture—3 hours; discussion—1 hour. Prerequisite: course 2. The role of language analysis and linguistic theory in the development of sociocultural anthropology. Language, culture, and thought; the linguistic accomplishment of social action; language ideology; language and social power. Language as cultural mediator of political power and process. GE credit: SocSci, Div | SS, VL, WE.

117. Language and Society (4) Lecture—3 hours; discussion—1 hour. Prerequisite: course 4, or Linguistics 1 and course 2. Consideration of language in its social context. Methods of data collection and analysis; identification of socially significant linguistic variables. Contributions of the study of contextualized speech to linguistic theory. GE credit: SocSci, Div | SS, VL, WE.

120. Language and Culture (4) Lecture—3 hours; discussion—1 hour. Prerequisite: course 4; or course 2 and Linguistics 1. Culture, cognition, meaning, and interpretation; language and the classification of experience; communication and learning in crosscultural perspective. GE credit: SocSci, Div | ACGH, DD, OL, SS, WC, WE.

Quarter Offered: I—Fall, II—Winter, III—Spring, IV—Summer, 2013-2016 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): ArtHum—Arts and Humanities; SciEng—Science and Engineering; SocSci—Social Sciences; ACGH—American Cultures; DD—Domestic Diversity; OL—Oral Skills; QL—Quantitative; SL—Scientific; VL—Visual; WC—World Cultures; Wrt—Writing Experience
121. Special Topics in Medical Anthropology (4)
Lectures/discussions 4 hours. Prerequisite: course 2 or Scientific and Technology Studies 1. Introduction to critical medical anthropology. Topics include anthropological analysis of biomedicine, psychiatry, systems of knowledge and healing, the body, emotions, and clinical encounters in a cross-cultural perspective. [Same course as Science and Technology Studies 121.] GE credit: SocSci, Div, Wrt | SS, WC, WE.

122A. Economic Anthropology (4)
Lecture 3 hours; discussion 1 hour. Varieties of production, exchange, and consumption behavior in precapitalist economies, their interaction with culture and social-political organization, and the theories that account for these phenomena. The effects of capitalism on precapitalist societies. Not open for credit to students who have completed course 122. [Former course 122.] GE credit: SocSci, Div, Wrt | ACGH, DD, SS, WC, WE.

122B. Anthropology and Political Economy (4)
Lecture 3 hours; discussion 1 hour. Prerequisite: course 2 or consent of instructor. Survey of anthropological approaches to the study of political organizations; inter-relationships among political institutions, economic infrastructures and cultural complexity. Not open for credit to students who have completed course 123A. (Former course 122B.) GE credit: SocSci, Div, Wrt | SS, WC, WE.

123AN. Resistance, Rebellion, and Popular Movements (4)
Lecture 3 hours; discussion 1 hour. Prerequisite: course 2 or consent of instructor. Analysis of popular protest in Third World and indigenous societies ranging from covert resistance to national revolts. Comparative case studies and theoretical perspectives on peasant rebellions, millenarian movements, social bandits, Indian “wars,” ethnic and regional conflicts, gender and class conflicts. Not open for credit to students who have completed course 123A. (Former course 123AN.) GE credit: SocSci | SS, WC, WE.

124. Religion in Society and Culture (4)
Lecture 3 hours; discussion 1 hour. Prerequisite: course 2. Discussion of anthropological theories of religion with emphasis on non-literate societies. Survey of shamanism, magic and witchcraft, ritual and symbols, and religious movements. Extensive discussion of ethnographic examples and analysis of social functions of religious institutions. GE credit: ArtHum or SocSci, Div, Wrt | SS, WC, WE.

125A. Structuralism and Symbolism (4)
Lecture 3 hours; discussion 1 hour. Prerequisite: course 2. Survey of anthropological approaches to understanding the logic of structuralism and symbolism in non-literate societies. How structural symbolic interpretations relate to cultural and linguistic universals and to the philosophical basis of relativism in the social sciences. (Former course 125A.) GE credit: SocSci, Div | SS, WC, WE.

125B. Postmodernism and Culture (4)
Lecture 3 hours; discussion 1 hour. Prerequisite: course 2. The U.S.-European postmodern condition. “Modernity” as an incomplete project for subordinated populations; social, political, and cultural conditions leading to postmodern aesthetics, in comparison with postcolonialism, feminism and minority discourse. GE credit: ArtHum or SocSci, Div, Wrt | SS, WC, WE.

126A. Anthropology of Development (4)
Lecture 3 hours; discussion 1 hour. Prerequisite: course 2 or consent of instructor. Theories of development and current critiques. Colonial legacies and postcolonial conditions in the state and NGOs; population migrations, changing gender identities, cash-earning strategies, and sustainability issues. Stresses importance of cultural understandings in development initiatives. Case studies illustrating prominent non-industrial societies. Not open for credit to students who have completed course 126. [Former course 126.] GE credit: SocSci, Div, Wrt | SS, WC, WE.

126B. Women and Development (4)
Lecture 3 hours; discussion 1 hour. Prerequisite: course 2 or consent of instructor. Current Third World and Western debates concerning women in agriculture, industry, international division of labor, political movements, revolutions, politics of health-care, education, family and reproduction. Impact of colonialism and post-colonialism, and international feminism on women and development. Not open for credit to students who have completed course 123. (Former course 123B.) GE credit: SocSci, Div, Wrt | SS, WC, WE.

127. Urban Anthropology (4)
Lecture 3 hours; discussion 1 hour. Prerequisite: course 2 or consent of instructor. Survey of approaches to urban living: political structures, organizations of labor, class relations, world views. The evolution of urban life and its contemporary dilemmas. Cross-cultural comparisons discussed through case studies. GE credit: SocSci, Div, Wrt | SS, WC, WE.

128A. Kinship and Social Organization (4)
Lecture 3 hours; discussion 1 hour. Prerequisite: course 2. Comparative examination of personal kinship, descent, marriage, household and family organization, the theories that account for variation, and recent advances in the treatment of these data. Not open for credit to students who have completed course 128. (Former course 128A.) GE credit: SocSci, Div, Wrt | SS, WC, WE.

128B. Self, Identity, and Family (4)
Lecture 3 hours; discussion 1 hour. Prerequisite: course 2 or consent of instructor. Exploration of self, identity and family systems cross-culturally. Impact of class, gender, race, ethnicity, ruralization, urbanization, and globalization on notions of selfhood in different social/cultural systems. Not open for credit to students who have completed course 129. (Former course 128B.) GE credit: SocSci, Div, Wrt | SS, WC, WE.

129. Health and Medicine in a Global Context (4)
Lecture/discussion 3 hours; term paper. Prerequisite: course 2 or Science and Technology Studies 1. Recent works in medical anthropology and the science studies of medicine dealing with social and cultural aspects of global health issues such as AIDS, pandemics, clinical trials, cultural differences in illnesses, diabetes, organ trafficking, medical technologies, illnesses, narrative arts, and others. [Same course as Science and Technology Studies 129.] GE credit: SocSci, Div, Wrt | SS, WC, WE.

130A. Cultural Dimensions of Globalization (4)
Lecture 3 hours; discussion 1 hour. Prerequisite: course 2. The cultural dimensions of recent economic changes and processes involved in so-called “globalization.” GE credit: SocSci, Wrt | SS, WC, WE.

130BN. Migration and the Politics of Place and Identity (4)
Lecture/discussion 4 hours. Prerequisite: course 2 or consent of instructor. Internal and international migration from an anthropological perspective, including causes, processes, and political, economic, and cultural effects of spatial mobility and displacement. Nature of identity, place, and power in diverse cultural and historical contexts. Not open for credit to students who have completed course 123D. (Former course 123DN.) GE credit: SocSci, Div, Wrt | SS, WC, WE.

131. Ecology and Politics (4)
Lecture 3 hours; discussion 1 hour. Prerequisite: course 2 or consent of instructor. Analysis of the complex interactions between ecological dynamics and political processes underlying the emerging approach of political ecology. Case studies of environmental degradation (e.g., desertification, logging, mineral extraction, petroleum, water) from various cultural and geographic regions. GE credit: SocSci, Div.
140B. Cultures and Societies of East and South Africa (4)
Lecture—2 hours; discussion—1 hour. Prerequisite: course 2. Ethnographic survey of Eastern and Southern Africa with analyses of selected societies which illustrate problems of interest to anthropologists. Major consideration will be given to continuities and discontinuities between periods prior to European contact and the present. GE credit: SocSci, Div, Wrt | SS, WC, WE.

141B. Ethnography of California and the Great Basin (4)
Lecture—3 hours; discussion—1 hour. Prerequisite: course 2 or consent of instructor. Description and analysis of the native peoples of California and the Great Basin, and their lifeways at the time of European contact. Former course 141 C. GE credit: SocSci, Div, Wrt | ACGH, DD, SS, WE—Bettinger.

141C. People of the Arctic: Contemporary and Historic Cultures of the Circumpolar Region (4)
Lecture—3 hours; discussion—1 hour. Prerequisite: course 2 or 3. Social, economic, political, and religious lives of Russian, American, Canadian, and Greenlandic Arctic peoples (Yup’ik, Iliupiat, Inuit). Topics include Arctic ecosystems, archaeological record of human occupation, ethnohistorical and ethnographic accounts, Arctic peoples in popular culture, and contemporary issues. Offered in alternate years—Darwen.

142. Peoples of the Middle East (4)
Lecture—3 hours; discussion—1 hour. Prerequisite: course 2. Peoples of the Middle East (including North Africa). Discussions of class relations, kinship organization, gender relations, religious beliefs and behavior, ethnic relations, political systems, impact of world systems, political and religious movements and social change. (Former course 136.) GE credit: SocSci, Div, Wrt | SS, WE, WC.

143A. Ethnology of Southeast Asia (4)
Lecture—3 hours; discussion—1 hour. Prerequisite: course 2. Patterns of culture and social organization from prehistory to the present, in the context of historical, ecological, economic, and political settings. Emphasis on the relation of ethnic minorities to national states. GE credit: SocSci, Div, Wrt | SS, WE, WC.

144. Contemporary Societies and Cultures of Latin America (4)
Lecture—3 hours; discussion—1 hour. Prerequisite: course 2. Introduction to contemporary social structure of Latin America. Origins, maintenance and changes in inequality, economic responses to poverty, sociocultural responses to discrimination, and political responses to powerlessness. GE credit: SocSci, Div, Wrt | SS, WE, WC.

145A. Identity, Embodiment, and Space in South Asia (4)
Lecture/discussion—4 hours. Prerequisite: course 2 or consent of instructor. South Asian cultures and societies with a focus on performance, embodiment, and space from several disciplinary fields. Topics may include colonialism, nationalism, religious traditions, media, popular culture, cities, social movements, modernity, bodycultures, identity, gender, and embodiment, and corpora. GE credit: AntHum or SocSci, Div, Wrt | AH or SS, WE, WC.

146N. Topics in the Anthropology of Europe (4)
Lecture—3 hours; discussion—1 hour. Prerequisite: course 2. Recent ethnographies of different nation-states and socio-political spaces in Europe. Topics include the question of old and new boundaries, historical and contemporary constructions of Europe, migration, citizenship, belonging, crypto, multiculturalism, and post-socialisms. Offered in alternate years. GE credit: SocSci, Div, Wrt | SS, WE, WC.

148A. Culture and Political Economy in Contemporary China (4)
Lecture/discussion—4 hours. Prerequisite: course 2 or consent of instructor. Understanding contemporary Chinese culture and political economy through reading ethnographic studies on recent transformations in rural and urban Chinese society. Special attention is given to state and popular culture, spatial mobilities, and gender. GE credit: SocSci, Div, Wrt | SS, WE, WC.

149A. Traditional Japanese Society (4)
Lecture—2 hours; discussion—1 hour. Prerequisite: course 2. Patterns of social organization from prehistoric to early twentieth-century Japan. Origins, prehistory, and traditional religious and political systems, marriage and kinship, language and culture. Contempory and traditional Japanese culture are addressed. GE credit: SocSci, Div, Wrt | SS, WE, WC.

149B. Contemporary Japanese Society (4)
Lecture—3 hours; discussion—1 hour. Introduction to contemporary Japanese social structure, social organization, and patterns of culture. Analysis of rural-urban cultural continuities and contrasts, class relations, political and economic systems, kinship, sex/gender systems, typical religious beliefs and behavior, conflict, consensus, and cultural stereotypes. GE credit: SocSci, Div, Wrt | SS, WE, WC—Shibamoto-Sm.

151. Primates Evolution (4)
Lecture—3 hours; discussion—1 hour. Prerequisite: course 1 or Biological Sciences 1B. Origin and relationships of the prosimians, monkeys, and apes. GE credit: SciEng, Wrt | SS, WE.

152. Human Evolution (5)
Lecture—3 hours; discussion—1 hour; term paper. Prerequisite: course 1 or Biological Sciences 1B. Nature and results of the evolutionary processes involved in the formation and differentiation of humans. GE credit: SciEng, Wrt | SS, WE.

153. Human Biological Variation (5)
Lecture—3 hours; discussion—1 hour; term paper. Prerequisite: course 1 or Biological Sciences 1B. Origins, adaptive significance and methods of analysis of genetic differences in populations. Special attention given to racial differences such as those in blood groups, plasma proteins, red cell enzymes, physiology, morphology, pigmentation and dermatoglyphics. GE credit: SciEng, Wrt | QL, SS, WE—D.G. Smith.

154A. The Evolution of Primate Behavior (5)
Lecture—3 hours; discussion—1 hour; term paper. Prerequisite: course 1. Examines ecological diversity and evolution of social systems of primates, monkeys, and apes, placing the social behavior of the primates in the context of appropriate ecological and evolutionary theory. GE credit: SciEng, Wrt | QL, SS, WE.

154BN. Primate Evolutionary Ecology (5)
Lecture—3 hours; lecture/discussion—1 hour; term paper. Prerequisite: course 1 or introductory course in evolutionary biology or ecology. Examination of the ecology of primates within an evolutionary framework. Theoretical concepts in individual, population, and community ecology, illustrated with primate and other representative examples. Includes topics in primate and rainforest conservation. GE credit: SciEng, Wrt | QL, SS, WE.

154C. Behavior and Ecology of Primates (2)
Lecture/discussion—2 hours. Prerequisite: course 54, 154A, or 154BN; Statistics 13 or its equivalent. Scientific methods of studying, describing and analyzing the behavior and ecology of primates. Offered in alternate years. (P/NP grading only.) GE credit: SciEng, Wrt | SS, WE.

154CL. Laboratory in Primate Behavior (4)
Laboratory—6 hours; term paper. Prerequisite: course 54, 154A, or 154BN; Statistics 13 or its equivalent. Design and conduct of scientific field studies of the behavior of groups of living primates at the California National Primate Research Center. Offered in alternate years. GE credit: SciEng | OL, SS, WE—Crofoot, Laber.

156A. Human Osteology (4)
Lecture—2 hours; laboratory—4 hours. Prerequisite: course 1 or equivalent. Human skeleton from archaeological, forensic, and paleontological perspectives, including anatomical, evolutionary, adaptive, and specialty studies of sex and age, function, evolution, growth, and development of bones and teeth. Hands-on study and identification of human skeletal remains. Cannot be taken by students who have previously completed course 156. GE credit: SciEng | SE.

156B. Advanced Human Osteology (4)
Lecture—2 hours; laboratory—4 hours. Prerequisite: course 156A or equivalent. Human skeletons from archaeological, forensic, and paleontological contexts. Bone and tooth structure, growth, and development; measurement, statistics, and biomechanics; assessment of age, sex, weight, height, and ancestry; and indicators of injury, diet, and activities. Offered in alternate years. GE credit: SciEng | SE.

157. Anthropological Genetics (3)
Lecture—3 hours. Prerequisite: course 1 or Biological Sciences 1A, and either Genetics 100 or enrollment in course 157 (concurrently or following). Methods for identifying genetic variation in human blood group antigens, serum proteins and red cell enzymes (hemaglutination), general electrophoresis on starch, cellulose acetate and polyacrylamide, immunodiffusion and electrophoresis on agarose. (P/NP grading only.) GE credit: QL, SS.

158. The Evolution of Females and Males: Biological Perspective (4)
Lecture—3 hours; discussion—1 hour. Prerequisite: course 1. Current theoretical frameworks for explaining the evolution of sex differences and for understanding the interaction between biological processes and cultural control of gender roles. GE credit: SciEng, Div, Wrt | OL, SS, WE—Marshall.

159. Molecular Anthropology of Native America (4)
Seminar—3 hours; term paper. Prerequisite: course 1 or Biological Sciences 1B or consent of instructor. Use of DNA and other genetic polymorphisms to test hypotheses regarding genetic relationships among different Native American tribal groups and about prehistoric population replacements and migrations to and within the Americas. Integration with cranio-metric, archaeological, palaeoenvironmental, linguistic and ethnohistorical evidence. GE credit: SciEng | QL, SS, WE—D. G. Smith.

160. Neandertals and Modern Human Origins (4)
Lecture—3 hours; discussion—1 hour. Prerequisite: course 1 or equivalent. Origins, evolution, and disappearance of Neanderthals and modern humans like us in both anatomy and behavior. Interpretation of the fossil and archaeological records of Europe and Africa. Genetics of living and fossil humans. Offered in alternate years. GE credit: SciEng | QL, SS, WE—Weaver.

170. Archeological Theory and Method (4)
Lecture—3 hours; discussion—1 hour. Prerequisite: courses 1 and 3. Introduction to history and development of archeological theory and method, with particular emphasis on the basic dependence of the latter on the former. Stress is on historical development of archeology in the New World. GE credit: SocSci, Div, Wrt | SS, WE, WE—Bettinger.
Anthropology

172. New World Prehistory: The First Arrivals (4)
Lecture—3 hours; discussion—1 hour. Prerequisite: course 3 or consent of instructor. Survey of the prehistory of Europe from its earliest human inhabitants, to the Neanderjants and first modern humans, and through early agricultural and complex societies. Analysis and interpretation of the European archaeological record for understanding human dispersals into Europe. Offered in alternate years. GE credit: SocSci, Div, Writ | SS, WC, WE. —Darwent

173. New World Prehistory: Archaic Adaptations (4)
Course—3 hours; discussion—1 hour. Prerequisite: course 3 or consent of instructor. Survey of the prehistory of Europe from its earliest human inhabitants, to the Neanderjants and first modern humans, and through early agricultural and complex societies. Analysis and interpretation of the European archaeological record for understanding human dispersals into Europe. Offered in alternate years. GE credit: SocSci, Div, Writ | SS, WE. —Eerkens

174. European Prehistory (4)
Lecture—3 hours; discussion—1 hour. Prerequisite: course 3 or consent of instructor. Survey of the prehistory of Europe from its earliest human inhabitants, to the Neanderjants and first modern humans, and through early agricultural and complex societies. Analysis and interpretation of the European archaeological record for understanding human dispersals into Europe. Offered in alternate years. GE credit: SocSci | SS, WC, WE. —Eerkens

175. Andean Prehistory: Archaeology of the Incas and their Ancestors (4)
Course—3 hours; discussion—1 hour. Prerequisite: course 3 of the Andean region, especially Peru, from the earliest hunting and gathering societies through to the use of archaeological and forensic techniques to reconstruct ancient human adaptations to the varied Andean environments. Offered in alternate years. GE credit: SocSci | SS, WC, WE. —Eerkens

176. Prehistory of California and the Great Basin (4)
Lecture—3 hours; discussion—1 hour. Prerequisite: course 3 or consent of instructor. Survey of the prehistory of Native peoples of California and the Great Basin from earliest times to European contact. Offered in alternate years. GE credit: SocSci, Div, Writ | AGCH, DD, SS, WE. —Steele

177. African Prehistory (4)
Course—3 hours; discussion—1 hour. Prerequisite: course 3 or consent of instructor. Survey of the prehistory of Africa from early human ancestors, through modern human origins, and into early agricultural and complex societies. Analysis and interpretation of the African archaeological record, incorporating human paleontology and genetics. Offered in alternate years. GE credit: SocSci | SS, WC, WE. —Eerkens

178. Hunter-Gatherers (4)
Course—3 hours; discussion—1 hour. Prerequisite: course 3 or consent of instructor. Survey of the prehistory of Africa from early human ancestors, through modern human origins, and into early agricultural and complex societies. Analysis and interpretation of the African archaeological record, incorporating human paleontology and genetics. Offered in alternate years. GE credit: SocSci, Div, Writ | SS, WC, WE. —Bettinger

179. Asian Prehistory (4)
Course—3 hours; discussion—1 hour. Prerequisite: course 3 or consent of instructor. Survey of the prehistory of Asia from earliest human populations to the rise of complex societies. Special focus on fossil and archaeological records. Offered in alternate years. GE credit: SocSci. —Zwyns

180. Zooarcheology (4)
Course—2 hours; discussion/laboratory—3 hours. Prerequisite: course 1 and 3 or consent of instructor. Theories and methods for studying animal skeletal remains from archaeological sites. Identification and quantification of zooarchaeological material, cultural and natural processes affecting animal bones pre- and post-burial, and use of faunal remains for determining past human diets and past environments. Offered in alternate years. GE credit: SciEng | SE. —Darwent, Steele

181. Field Course in Archeological Method (9)
Lecture—6 hours; daily field investigation. Prerequisite: course 3. On-site course in archeological methods and techniques held at a field location in the western United States, generally California or Nevada. Introduces basic methods of archaeological surveying and mapping. Offered in alternate years. GE credit: SciEng | SE, IV.

182. Archaeometry (4)
Lecture—3 hours; discussion/laboratory—1 hour. Prerequisite: course 3, Statistics 13 or the equivalent recommended. Examination of methods used to study the chemical and physical properties of archaeological materials. Types of anthropological questions that can be addressed with different methods. Preparation and analysis of archaeological materials. Offered in alternate years. GE credit: SciEng | QL, SE, VL, WE. —Eerkens

183. Laboratory in Archeological Analysis (4)
Lecture—2 hours; laboratory—6 hours. Prerequisite: course 182 or consent of instructor. Museum preparation, advanced field investigation, and guidance in preparation of museum material for publication. Offered in alternate years. GE credit: SciEng, Writ | QL, QL, SE, WE.

184. Prehistoric Technology: The Material Aspects of Prehistoric Adaptation (4)
Course—3 hours; discussion—1 hour. Prerequisite: course 2 or 3. Examination of the role of lithic, ceramic, textile and wooden implements as elements in prehistoric survival and development. Emphasis is descriptive, but the significance of materials and resources as factors in prehistoric adaptation, settlement patterns, and culture change are discussed. Offered in alternate years. GE credit: SocSci | SS, WE. —Eerkens

191. Topics in Anthropology (4)
Lecture/discussion—3 hours; term paper. Prerequisite: junior or senior standing in anthropology. Intensive treatment of a special anthropological topic or problem. May be repeated one time for credit when topic differs.

192. Internship in Anthropology (1-12)
Internship—3-36 hours. Prerequisite: Upper division standing, consent of instructor. Work experience off and on campus in all subject areas offered in the Department of Anthropology under the supervision of a member of the faculty. Limited to Anthropology majors. May be repeated for a total of 12 units including 192 courses taken in other departments. (P/NP grading only.)

194H. Special Study for Honors Students (1-5)
Special study. Open only to majors of standing who qualify for honors program. Independent study of an anthropological problem involving the writing of an honors thesis. May be repeated for a total of 12 units. (P/NP grading only.) GE credit: Writ.

197T. Tutoring in Anthropology (1-5)
Tutorial—1.5 hours. Prerequisite: upper division standing with major in Anthropology and consent of Department Chairperson. Leading of small voluntary discussion groups affiliated with one of the department’s regular courses. May be repeated for credit. (P/NP grading only.)

198. Directed Group Study (1-5)
Directed group study. Offered in alternate years. GE credit: SciEng | QL, QL, SE, VL, WE. —Eerkens

199. Special Study for Advanced Undergraduates (1-5)
(P/NP grading only.)

Graduate

200. History of Anthropology (4)
Lecture/discussion—2 hours; term paper. Historical development of socio-cultural theory within anthropology, from mid-19th to mid-20th Centuries. Focus on original theory texts in context of historical developments in the field as a whole.

201. Critical Readings in Ethnography (4)
Seminar—3 hours; term paper. Critical readings of selected ethnographies that examine a wide range of important topics and analytical issues in social and cultural anthropology. Emphasis on how and why ethnographic writing has changed over time and its relationship with contemporary theoretical explorations.

202. History and Theory of Biological Anthropology (4)
Seminar—3 hours; term paper. History of thought in biological anthropology and analysis of major theoretical problems in the field. Suggested for all first-year graduate students lacking intensive preparation in biological anthropology.

203. History and Theory of Archaeology (4)
Seminar—3 hours; term paper. History of archaeology and archaeological theory and analysis of archaeological research methodology. Generally restricted to graduate students; outstanding under-graduates with extensive training in archaeology with consent of instructor.

204. Contemporary Issues in Anthropological Linguistics (4)
Seminar—3 hours; term paper. History of thought in anthropological linguistics. Consideration of the historical development of fundamental ideas in anthropological linguistics, of major theoretical issues, and of research methodology.

206. Research Design and Method in Social Anthropology (5)
Seminar—4 hours; individual student-instructor session (in-depth work on proposal writing). Prerequisite: consent of instructor. Formulation of research problems and preparation of research proposals; relationships between theory and method, funding, pre-fieldwork preparations, entering the community, field research techniques, and problems of ethics; intensive work on proposal writing. May be repeated one time for credit. Limited enrollment.

207. Ethnographic Writing (4)
Seminar—3 hours; term paper. Prerequisite: courses 137, 201, or the equivalent. Relationship between conducting participant observation of others and writing it up, emphasizing the psychosocial rift between the reality of fieldwork and its written representation. Study of various literary genres and textual strategies used in cultural anthropology. May be repeated for credit.

210. Aspects of Culture Structure (4)
Seminar—3 hours; term paper. Analysis of various aspects of culture, such as religion, economics, law, and folklore. May be repeated for credit when topics differ. —I, II, III. (J, III.)

211. Advanced Topics in Cultural Ecology (4)
Lecture/discussion—3 hours; term paper. Prerequisite: Environmental Science and Policy/Anthropology 133, graduate standing in Anthropology or Ecology. Topics of current analytical and methodological importance in cultural ecology. Examination of general issues in cultural ecology through study of human response to and influence on climate. (Same course as Ecology 211.)

212. Political Ecology (4)
Lecture/discussion—3 hours; term paper. Prerequisite: graduate standing or consent of instructor. Interdisciplinary seminar evaluating contributions from ecological anthropology, political economy, cultural constructivism, postmodernism, and feminism towards development of theories of political ecology. Historical relationships between local/global power.
structures, environmental degradation, and resistance movements. Case studies of desecration, deforestation, mining, conservation, development.

216. Problems in Archeological Method (4) Seminar—3 hours; term paper. Techniques for analyzing archeological data; application to various prehistoric cultures. May be repeated for credit with consent of instructor. — Doty, Stone.

217. Quantitative Modeling in Archeology (4) Lecture/discussion—3 hours; term paper. Examination of the nature of archeological data with a focus on quantitative and statistical techniques available to model, analyze, display, and make sense of such data. Offered in alternate years. — Eerkens.

218. Topics in New World Prehistory (4) Seminar—3 hours; term paper. Advanced study on current problems in New World Prehistory and archeology. May be repeated for credit only if material is unique for that student and with consent of instructor. May be repeated for credit. Offered irregularly.

219. Topics in Old World Prehistory (4) Seminar—3 hours; term paper. Advanced study on current problems in Old World prehistory and archeology. May be repeated for credit only if material is unique for that student and with consent of instructor. May be repeated for credit. Offered irregularly.

220. Field Course in Linguistics (4) Seminar—2 hours; term paper. Prerequisite: courses 110, 111. Techniques of eliciting, recording, and analyzing; work with a native speaker.

221. Rural Transformation in Postcolonial Societies (4) Seminar—3 hours; term paper. Prerequisite: courses 223, 265, or consent of instructor. Problems of rural transformation arising out of political and economic interaction between national elites and rural regions and local traditions under varying conditions of induced change in postcolonial societies. Attention will be given to the implications of this interaction for rapid economic growth. May be repeated for credit.

222. Cities and Citizenship (4) Seminar—3 hours; term paper. Prerequisite: culture and politics from an anthropological perspective.

223. Economic Anthropology (4) Seminar—3 hours; term paper. Prerequisite: course 122 or consent of instructor. Selected current methodological and theoretical problems in the analysis of modern economic systems.

224. Problems in Comparative Religion (4) Seminar—3 hours; term paper. Advanced study on current problems in the anthropological study of religion.

225. State and Nation in the Modern World (4) Seminar—3 hours; term paper. A presentation of current anthropological theories of the origins and nature of the modern nation-state in both the First and Third Worlds. Special reference to state ideology (nationalism) and forms of control.

226. Consciousness and Resistance (4) Seminar—3 hours; term paper. Prerequisite: completion of one of the core paradigms within contemporary anthropological inquiry, “culture and power.” Focus on how distinct theoretical perspectives—Marxism, feminism, post-structuralism, and feminism—have examined the mutually constitutive nature of culture and power. — II. (II.) Sawyer

229. Gender, Identity, and Self (4) Seminar—3 hours; term paper. Intersections of gender, identity, and selfhood cross-culturally and historically. How the self is feminized and masculinized, and interfaces with sexual, race, class, work, national, minority, and majority identities under different historical, cultural, and social structural conditions. May be repeated for credit when topic differs. — II. (II.) Joseph

230. Family Systems and Reproduction: Theory and Comparisons (4) Lecture—1.5 hours; seminar—1.5 hours; term paper. Prerequisite: graduate standing in one of the social sciences including History. Comparative examination of the nature of systems and the context and of reproductive behaviors and strategies. A major theme is how family-system norms specify the relative desirability of differently configured offspring sets. Cases are drawn from Western Europe and South and East Asia.

232. Political Movements (4) Seminar—3 hours; term paper. Prerequisite: completion of first-year graduate work recommended. An interdisciplinary approach to political movements of protest, reform, and revolution emphasizing historical comparison and evaluation of major theoretical approaches including world systems, resource mobilization, state control, political choice, moral economy, social class, and gender.

239. Problems in African Society and Culture (4) Seminar—3 hours; term paper. Diachronic analyses of traditional institutions in sub-Saharan Africa.

241. Topics in North American Ethnology (4) Seminar—3 hours; term paper. Advanced study on current problems in North American ethnography and culture history. May be repeated for credit with consent of instructor.

245. Ethnology of Northern and Central Asia (4) Seminar—3 hours; term paper. Prerequisite: a reading knowledge of German, Russian, Chinese, or Japanese. Lectures on the culture aboriginally found north of the Caucasus-Korea line. Supervised study of the primary and secondary sources. Work with informants where possible.

246. Ethnology of Europe (4) Seminar—3 hours; term paper. Prerequisite: reading knowledge of a European language other than English. Supervised study of the primary and secondary sources dealing with the ethnography and ethnology of the peoples of Europe. Emphasis upon folk, peasant, and minority groups.

248. Topics in Chinese Culture and Society (4) Seminar—3 hours; term paper. Prerequisite: graduate standing in the social sciences, history, or the humanities. Selected topics in the anthropology of Chinese society. Focus on one or more of the following topics: state-society dynamics, family and gender, city formation, social movements, labor politics, and religion and ideology in Chinese society. May be repeated for credit when topic differs.

250. Behavioral Ecology of Primates (4) Seminar—3 hours; term paper. Prerequisite: course 154A (may be taken concurrently) or the equivalent, graduate standing. Concepts, issues, and hypotheses in primate behavioral ecology, with emphasis on the social and ecological determinants and consequences of variation in social organization for individuals.

252. Human Evolution Seminar (4) Seminar—3 hours; term paper. Prerequisite: course 152 or the equivalent, consent of instructor. Study of selected topics in human evolutionary studies. Each year course will focus on one or more of the following: molecular evolution, primate evolutionary biology, Tertiary hominoids, Australopithecines, Homo erectus, archaic Homo sapiens, brain evolution. May be repeated for credit.

253. Seminar in Human Biology (4) Seminar—3 hours; term paper. Prerequisite: course 153, 157, or consent of instructor. Study of selected topics in human biology. May be repeated for credit when topics vary.

254. Current Issues in Primate Sociobiology (4) Seminar—3 hours; term paper. Prerequisite: course 154A or the equivalent. Analysis of primate behavior, with particular emphasis on preparation for field studies. May be repeated for credit when topics differ.

255. Primate Conservation Biology (4) Seminar—3 hours; term paper. Prerequisite: course 154A, graduate standing or upper division undergraduate with consent of instructor. Application of understanding of primate biology to the conservation of primate species and their habitats. Emphasis upon the evolution of primate behavior, behavioral ecology, bioecography, macroecology, population biology, and socioecology of primates. May be repeated one time for credit if term paper differs. — McLaughlin.

261. Modeling the Evolution of Social Behavior (4) Lecture—3 hours; extensive problem solving. Prerequisite: Mathematics 16C or the equivalent or consent of instructor. Tools and techniques in modeling the evolution of social behavior in humans and other animals. Game theory, basic population genetics, animal conflict, altruism, reciprocity, signaling, and group selection. — McEneaney.

262. Evolution and Human Behavior (4) Discussion—3 hours; term paper. Prerequisite: graduate standing or consent of instructor. Exploration of the links between behavioral ecological theory and human cultural variation, focusing on reproduction, marriage, parental investment and family structure; implications of evolutionary theory for social organization in human communities, historical and contemporary. — Borgerhoff-Muller.

263. Human Applications of Foraging Theory (4) Discussion—3 hours; laboratory—3 hours. Foraging theory models and their use in ethnographic and archaeological analyses. Emphasis on behavior with a focus on hunter-gatherers and resource selection, patch use, population and habitat, central places, sharing, stochastic processes, population dynamics, and conservation behavior of for credit to students who have completed course 258. — Winterhalder.

265. Language, Performance, and Power (4) Seminar—3 hours; term paper. Graduate standing or consent of instructor. Exploration of the intersection between linguistic and social theories in the language/society relation and the performance of identity. Ideological sources of language differentiation; nation-building and linguistic difference. Political economic, sociolinguistic, and ethnographic approaches to understanding linguistic inequality. — Sawyer.

270. Anthropology Colloquium Seminar (1) Seminar—1 hour. Reports and discussions of recent advances in the subfields of anthropology. To be presented by guest speakers. May be repeated two times for credit. (S/U grading only.) — I, II, III, II, I, I.

280. Current Anthropology Journal Editorial Workshop (4) Workshop—1 hour; independent study—3 hours. Students must enroll for three quarters. Reading and offering workshop critiques of manuscripts sub-
16. Metal Properties and Fabrication (2)
Lecture—1 hour; laboratory—3 hours. Study of metal properties and techniques for fabricating metal. Physical properties/considerations, effects of techniques on quality and appearance, and evaluation procedures. Experience in working with metals. (P/NP grading only.) GE credit: QL, SE, VL—II. (Il) Shafii

17. Plastic Properties and Fabrication (2)
Lecture—1 hour; laboratory—3 hours. Study of the properties of plastic materials and the fundamentals of fabrication techniques. Experience in working with common plastics, with applications to biological systems. (P/NP grading only.) GE credit: QL, SE, VL—II. (Il) Shafii

49. Field Equipment Operation (2)
Lecture—1 hour; laboratory—3 hours. Operation, adjustment, and troubleshooting of farm tractors and field equipment. Principles of operation, equipment terminology and uses of tillage, cultivating, thinning, and planting equipment. Typical sequences in cropping practices. (P/NP grading only.) GE credit: QL, SE, VL—II. (Il) Shafii

52. Field Equipment Welding (2)
Lecture—1 hour; laboratory—3 hours. Prerequisite: course 16 or consent of instructor. Intermediate welding to include hardfacing and in gas welding of Class projects on repair and fabrication by welding. Troubleshooting and major repair of field equipment. (P/NP grading only.) GE credit: QL, SE, VL—II. (Il) Shafii

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

99. Special Study for Lower Division Students (1-5)
(P/NP grading only.) GE credit: SE.

Upper Division
101. Engine Technology (3)
Lecture—2 hours; laboratory—3 hours. Prerequisite: upper division standing or consent of instructor. Principles of 2-stroke cycle, 4-stroke cycle gasoline and 4-stroke cycle diesel engine construction and operation. Engine systems, performance, troubleshooting and overhaul. GE credit: Sc/Eng | QL, SE, VL—II. (Il) Rosa

110L Experiments in Food Engineering (2)
Laboratory—6 hours. Prerequisite: Food Science and Technology 110B (may be taken concurrently). Use of temperature sensors; measurement of thermal conductivity and heat transfer in foods; refrigeration, freezing, concentration and dehydration of foods. GE credit: Sc/Eng | QL, SE, VL—II. (Il) Singh

121. Animal Housing and Environment Management (2)
Lecture—2 hours. Prerequisite: Animal Science 1 or 2. Optimal structures and environments for animal growth and comfort/heat and moisture transfer principles; heating, cooling, ventilating principles and equipment; animal housing design; environmental regulations and waste management practices. Offered in alternate years. GE credit: Sc/Eng | SE—II. (Il) Zhang

142. Equipment and Technology for Small Farms (2)
Lecture—1 hour; laboratory—3 hours. Types and characteristics of machinery and equipment appropriate for small farming commercial farming. Adjustment and calibration of equipment. Selection of and budgeting for equipment. (Same course as Agricultural Enterprise 142.) GE credit: Sc/Eng | QL, SE, VL—II. (Il) Perkins

150. Introduction to Geographic Information Systems (4)
Lecture—3 hours; laboratory—3 hours. Prerequisite: Plant Sciences 218 and consent of instructor. Priority given to College of Agricultural and Environmental Science majors. Basic concepts, principles and methods of GIS are presented. Data structures, database design, GIS data creation, GPS, and spatial analysis techniques are emphasized. Lab topics include: online data sources, aerial photograhphy, GPS data input, suitability analysis, cartographic design and graphics conventions. Not open for credit to students who have completed Applied Biological Systems Technology 180/Plant Sciences 180 or Applied Biological Systems Technology 181N. (Same course as Hydrological Science Architecture 130.) GE credit: Sc/Eng | QL, SE, VL—II. (Il) Greco, Upadhyaya

161. Water Quality Management for Aquaculture (3)
Lecture—3 hours. Prerequisite: Biological Sciences 18, Mathematics 16B, Chemistry 2B. Basic principles of water chemistry and water treatment processes as they relate to aquacultural systems. Offered in alternate years. GE credit: Sc/Eng | QL, SE, VL, WE—III. (Ill) Pridahita

163. Aquaculture Systems Engineering (3)
Lecture—3 hours. Prerequisite: course 161. Design of aquacultural systems: design methodology, principles of fluid mechanics, site selection and facility planning, management operations, computer modeling. Offered in alternate years. GE credit: Sc/Eng | QL, SE, VL, WE—III. (Ill) Delwiche, Grismer

180. Introduction to Geographic Information Systems (4)
Lecture—3 hours; laboratory/discussion—3 hours. Prerequisite: Agricultural Management and Range Resourses 21 or equivalent familiarity with computers. Management and analysis of georeferenced data. Spatial database management and modeling. Applications to agriculture, biological resource management and social sciences. Cartographic modeling. Vector and raster-based geographic information systems. Not open for credit to students who have completed Agricultural Management and Range Resourses 132. (Same course as Plant Sciences 180.) GE credit: Sc/Eng | QL, SE, VL—II. (Il) Plant

181N. Concepts and Methods in Geographic Information Systems (4)
Lecture/lab—8 hours. Prerequisite: course 180 or Agricultural Management and Rangeland Resources 180 or Landscape Architecture 50 or consent of instructor. Data representation and analysis in geographic information systems (GIS). Creation of spatial data sets from analog and digital sources such as aerial photography and maps; data structures, data management, database design, georeferencing, georectification, surface models, analysis, and spatial data visualization. Offered in alternate years. GE credit: Sc/Eng | QL, SE, VL—II. (Il) Plant

182. Environmental Analysis using GIS (4)
Lecture—2 hours; laboratory—4 hours. Prerequisite: course 180 or equivalent GIS experience and skills; general biology and/or ecology courses recommended. Ecosystem and landscape modeling with emphasis on hydrology and soil solute transport. Spatial analysis of environmental risk including ecological risk assessment; natural resource management. Spatial database structures, scripting, data models, and error analysis in GIS. Offered in alternate years. GE credit: Sc/Eng | QL, SE, VL—II. (Il) Zhang

190C. Research Conference for Advanced Undergraduates (1)
Discussion—1 hour. Prerequisite: consent of instructor. Research conferences for specialized study in applied biological systems technology. May be repeated for credit. (P/NP grading only.) GE credit: SE—II, III. (Il, III)

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; Sc/Eng=Science and Engineering; SocSci=Social Sciences; Div=Divisional Diversity; Wrt=Writing Experience
Fall 2011 and on Revised General Education (GE): AH=Arts and Humanities; SE=Science and Engineering; SS=Social Sciences; ACH=American Cultures; DD=Dominic Diversity; OL=Oral Skills; QL=Quantitative; SL=Scientific; VL=Visual; WC=World Cultures; WE=Writing Experience