ANTHROPOLOGY, BACHELOR OF SCIENCE

College of Letters & Science

The B.S. Major

Anthropology is the systematic study of humans. The student of anthropology learns about human biology, ecology, and social life—past & present—and gains a broad understanding of humans and societies. *The Bachelor of Science degree in Anthropology* is interdisciplinary in nature since it requires lower division coursework in math & science and upper division coursework in biological anthropology and closely related disciplines.

The Program

Evolutionary anthropologists are united by their common application of science and evolutionary theory to understand the behavior, ecology, history, and evolution of humans & non-human primates, as individuals and as societies. These topics may be approached through archaeology, human behavioral ecology, paleoanthropology, primatology, genetics, and conservation biology. *Archaeology* is the study of history or prehistory by analysis of a people's artifacts, or their material culture, with the goal of reconstructing culture history and human behavior. *Human behavioral ecology* is the study of how variation in ecology and social organization can help us understand variation in human behavior. *Paleoanthropology* is the study of human evolution through the fossil and archaeological records, drawing on relevant studies in biological anthropology, Paleolithic archaeology, genetics, and geology. *Primatology* is the study of behavior, ecology, and morphology of primates to address questions about the evolution and function of behavioral & morphological patterns in nonhuman primates and to test models of the origins of human morphology and behavior. *Genetic anthropology* uses DNA to address anthropological questions about population histories, migrations, mixing, and adaptations to local contexts. *Conservation biology* explores the causes of loss of biological diversity—in this department, it focuses on threatened non-human primates and the conservation of natural resources by a rapidly growing population. A Bachelor of Science degree, in addition to core evolutionary anthropology courses, includes the introductory sequences of biology, chemistry, organic chemistry, and calculus, as well as genetics and ecology.

Students are encouraged to gain practical experience through undergraduate research or internships performed for credit (under ANT 192, ANT 198, or ANT 199 units provided by the advising office). Students showing exceptional ability are welcome to seek permission from instructors to participate in graduate seminars offered by the department.

Career Opportunities

A Bachelor of Science degree in Anthropology combines a solid liberal arts education with training in the life and physical sciences. Through its interdisciplinary nature, a Bachelor of Science degree in Anthropology provides the educational background for careers in the biological sciences and a variety of health professions including pre-medical, pre-dental, and pre-veterinary, fields which increasingly need professionals with training in the social and behavioral sciences. In addition, students will be well prepared to enter fields such as medical or health anthropology, forensic sciences, museum studies, cultural resource management, and wildlife conservation. A Bachelor of Science degree in Anthropology with appropriate courses in education is good preparation for high school teaching in social, biological, and physical sciences. It also provides the foundation for advanced study leading to careers in college-level teaching and research.

Major Advisor

Connect with our advising office (https://anthropology.ucdavis.edu/undergraduate/advising/advising-office/).

Honors Program

Candidates for high or highest honors in Anthropology must write a senior thesis under the direction of a faculty member. The thesis project will have a minimum duration of two quarters. Honors candidates must take at least 6 units of Anthropology ANT 194H. Only students who, at the end of their junior year (135 units), have attained a cumulative grade point average of 3.500 in Anthropology courses will be eligible for the honors program. The quality of the thesis work will be the primary determinant for designating high or highest honors at graduation.

Teaching Credential Subject Representative

See the Teaching Credential/M.A. Program (https://education.ucdavis.edu/teaching-credentialma/).

Graduate Study

The Department offers a program of study leading to the M.A. and Ph.D. degrees in Anthropology. Further information regarding graduate study may be obtained at the Department office and at Graduate Studies (https://grad.ucdavis.edu/).

Code	Title	Units
Preparatory Subject Matter		
Anthropology		
ANT 001	Human Evolutionary Biology	4
or ANT 001Y	Human Evolutionary Biology (Hybrid Version)	
ANT 002	Cultural Anthropology	5
ANT 003	Introduction to Archaeology	4
Biological Science		
BIS 002A	Introduction to Biology: Essentials of Life on Earth	5
BIS 002B	Introduction to Biology: Principles of Ecology & Evolution	5
BIS 002C	Introduction to Biology: Biodiversity & the Tree of Life	5
General Chemistry		
CHE 002A	General Chemistry	5
CHE 002B	General Chemistry	5
Mathematics		
Choose a series:		9-12
MAT 016A	Short Calculus	
MAT 016B	Short Calculus	
MAT 016C	Short Calculus	
MAT 017A	Calculus for Biology & Medicine	
MAT 017B	Calculus for Biology & Medicine	
MAT 017C	Calculus for Biology & Medicine	
MAT 019A	Calculus for Data-Driven Applications	
MAT 019B	Calculus for Data-Driven Applications	
MAT 019C	Calculus for Data-Driven Applications	

MAT 021A	Calculus	
MAT 021B	Calculus	
MAT 021C	Calculus	
Choose one:		4-5
ANT 013	Scientific Method in Physical Anthropology	
SOC 056	Introduction to Social Statistics	
or SOC 056Y	Introduction to Social Statistics	
STA 013	Elementary Statistics	
or STA 013Y	Elementary Statistics	
STA 032	Gateway to Statistical Data Science	
STA 100	Applied Statistics for Biological Sciences	
Preparatory Subject Matter Subtotal		51-55
Depth Subject Matter		
Choose one:		4-5
ANT 151	Primate Evolution	
ANT 152	Human Evolution	
ANT 160	Neandertals & Modern Human Origins	
Choose one:		3-5
ANT 153	Human Genetics: Mutation & Migration	
EVE 131	Human Genetic Variation & Evolution	
Choose one:		5
ANT 154A	The Evolution of Primate Behavior	
ANT 154B	Primate Evolutionary Ecology	
ANT 155	Primate Conservation Biology	
ANT 159	Disease Outbreaks in Humans and Other Primates	
Three additional upper division ANT courses.		9-12
Biological Science		
BIS 101	Genes & Gene Expression	4
Evolution & Ecology		
EVE 100	Introduction to Evolution	4
Additional Units		
Additional units from the list below to achieve a minimum of 45 upper division units. (p. 2)		10-16
Depth Subject Matter Subtotal		39-51
Total Units		**90-106**

Additional Units

Code	Title	Units
ANT 128A	Kinship & Social Organization: From Clans to Countries	4
ANT 151	Primate Evolution	4
ANT 152	Human Evolution	5
ANT 153	Human Genetics: Mutation & Migration	5
ANT 154A	The Evolution of Primate Behavior	5
ANT 154B	Primate Evolutionary Ecology	5
ANT 154C	Primate Behavior: Methods & Experimental Design	2
ANT 154CL	Laboratory in Primate Behavior	4
ANT 155	Primate Conservation Biology	4
ANT 156A	Human Osteology	4
ANT 156B	Advanced Human Osteology	4
ANT 157	Advanced Human Genetics	2
ANT 157L	Advanced Human Genetics Lab	4
ANT 158	The Evolution of Sex: A Biological Perspective	4
ANT 159	Disease Outbreaks in Humans and Other Primates	4
ANT 160	Neandertals & Modern Human Origins	4
ANT 180	Zooarchaeology	4
ANT 182	Archaeometry	4
ANT 185	Lithic Analysis	4
ABI 102	Animal Biochemistry & Metabolism	5
ABI 103	Animal Biochemistry & Metabolism	5
APC 100/NPB 123	Comparative Vertebrate Organology	4
BIS 102	Structure & Function of Biomolecules	3
BIS 103	Bioenergetics & Metabolism	3
CHA 101/EXB 106	Human Gross Anatomy	4
CHA 101L/EXB 106L	Human Gross Anatomy Laboratory	3
ESP 100	General Ecology	4
EVE 101	Introduction to Ecology	4
EVE 102	Population & Quantitative Genetics	4
EVE 103	Phylogeny, Speciation & Macroevolution	4
EVE 104	Community Ecology	4
EVE 105	Phylogenetic Analysis of Vertebrate Structure	4
EVE 138	Ecology of Tropical Latitudes	5
EVE 141	Principles of Systematics	3
EVE 147	Biogeography	4
EVE 149	Evolution of Ecological Systems	4
EVE 175	Computational Genetics	3
GEL 107	Earth History: Paleobiology	3
GEL 107L	Earth History: Paleobiology Laboratory	2
GEL 108	Earth History: Paleoclimates	3
GEL 144	Historical Ecology	3
GEL 146	Radiogenic Isotope Geochemistry & Cosmochemistry	3
HDE/ENT 117	Longevity	4
MIC 102	Introductory Microbiology	3
MIC 103L	Introductory Microbiology Laboratory	2
MCB 120	Molecular Biology & Biochemistry Laboratory Associated Lecture	3
MCB 120L	Molecular Biology & Biochemistry Laboratory	3
MCB 121	Advanced Molecular Biology	3
MCB 150	Developmental Biology	4
MCB 160L	Principles of Genetics Laboratory	5
MCB 162	Human Genetics & Genomics	3
MCB 163	Developmental Genetics	3
MCB 164	Advanced Eukaryotic Genetics	3
NPB 101	Systemic Physiology	5
NPB 101L	Systemic Physiology Laboratory	3
NPB 102	Animal Behavior	3
NPB 123/APC 100	Comparative Vertebrate Organology	4
NPB/PSC 124	Comparative Neuroanatomy	3
NPB 150/PSC 122	Advanced Animal Behavior	4

NPB 152/PSC 123	Hormones & Behavior	3
PSC 101	Introduction to Biological Psychology	4
PSC 113	Developmental Psychobiology	4
PSC 121	Physiological Psychology	4
PSC 122/NPB 150	Advanced Animal Behavior	4
PSC 123/NPB 152	Hormones & Behavior	3
PSC/NPB 124	Comparative Neuroanatomy	3
SPH 101	Introduction to Public Health	3
SPH 102	Introduction to Human Epidemiology	4
STA 100	Applied Statistics for Biological Sciences	4
STA 104	Applied Statistical Methods: Nonparametric Statistics	4
STA 106	Applied Statistical Methods: Analysis of Variance	4
STA 108	Applied Statistical Methods: Regression Analysis	4
STA 130A	Mathematical Statistics: Brief Course	4
STA 130B	Mathematical Statistics: Brief Course	4
STS 131	Darwin	4
WFC 141	Behavioral Ecology	4
WFC 154	Conservation Biology	4