ANTHROPOLOGY

BACHELOR OF SCIENCE

Evolutionary anthropologists are united by their common application of science to understand the behavior, ecology, history, and evolution of humans and non-human primates, as individuals and as societies. The many useful approaches to these topics bring together archaeology, human behavioral ecology, molecular anthropology, paleoanthropology, biogeography, conservation biology, and primatology.

A Bachelor of Science degree in Anthropology provides suitable pre-medical, pre-dental, and pre-veterinary training, and the educational background of further training in the health professions, biological/evolutionary sciences and forensic investigation.

Majors following the Bachelor of Science program, and with appropriate courses in education, will have good preparation for high school teaching in biological and natural sciences. An Anthropology degree also provides the foundation for advanced study leading to careers in college-level teaching and research.

Anthropology – B.S. Degree Requirements

LOWER DIVISION REQUIRED - PREPARATORY .... 54-60 UNITS

A. **Anthropology 1**, Human Evolutionary Biology

B. **Anthropology 2**, Cultural Anthropology

C. **Anthropology 3**, Introduction to Archaeology

D. **Biological Sciences 2A**, Introduction to Biology: Essentials of Life on Earth

E. **Biological Sciences 2B**, Introduction to Biology: Principles of Ecology and Evolution

F. **Biological Sciences 2C**, Introduction to Biology: Biodiversity and the Tree of Life

G. **Chemistry 2A**, General Chemistry

H. **Chemistry 2B**, General Chemistry

I. **Chemistry 8A**, Organic Chemistry: Brief Course **or**
Chemistry 118A, Organic Chemistry for Health and Life Sciences

J. **Chemistry 8B**, Organic Chemistry: Brief Course **or**
Chemistry 118B, Organic Chemistry for Health and Life Sciences

K. Select one course from:
Mathematics 16A, Short Calculus
Mathematics 17A, Calculus for Biology and Medicine
Mathematics 21A, Calculus

L. Select one course from:
Mathematics 16B, Short Calculus
Mathematics 17B, Calculus for Biology and Medicine
Mathematics 21B, Calculus

M. Select one course from:
Mathematics 16C, Short Calculus
Mathematics 17C, Calculus for Biology and Medicine
Mathematics 21C, Short Calculus

N. Select one course from:
Anthropology 13, Scientific Method in Physical Anthropology
Statistics 13, Elementary Statistics
Statistics 32, Basic Statistical Analysis Through Computers
Statistics 100, Applied Statistics for Biological Sciences
Statistics 102, Introduction to Probability Modeling and Statistical Inference

UPPER DIVISION REQUIRED - DEPTH .... 45 UNITS

A. **Anthropology 152,** Human Evolution

B. **Anthropology 153** Human Biological Variation

C. **Anthropology 154A**, The Evolution of Primate Behavior

D. Select three additional upper-division courses in Anthropology
(may be from both the Evolutionary and Sociocultural emphases, excluding the 190's)

E. **Biological Sciences 101** Genes and Genes Expression

F. **Evolution and Ecology 100**, Introduction to Evolution

G. Select additional units from the list below to achieve a minimum of 45 upper division units:

Anthropology:

ANT 101, Ecology, nature, and Society
ANT 102, Cultural Ecology
ANT 103, Indigenous Peoples and nature Resource Conservation
ANT 105, Evolution of Societies and Culture

ANT 122A, Economic Anthropology
ANT 128A, Kinship and Social Organization
ANT 151, Primate Evolution
ANT 154BN, Primate Evolutionary Ecology
ANT 154C, Behavior and Ecology of Primates
ANT 154CL, Laboratory in Primate Behavior
ANT 156A, Human Osteology
ANT 156B, Advanced Human Osteology
ANT 157, Anthropological Genetics
ANT 157L, Laboratory in Anthropological Genetics
ANT 158, The Evolution of Females and Males: Biological Perspective
ANT 159, Molecular Anthropology of Native America
ANT 180, Zooarcheology

Anatomy, Physiology & Cell Biology 100 (Veterinary Medicine), Comparative Vertebrate Organology.....*(same course as NPB 123)*

Biological Sciences:
BIS 102, Structures and Function of Biomolecules
BIS 103, Bioenergetics and metabolism

Cell Biology and Human Anatomy (School of Medicine):
CHA 101, Human Gross Anatomy
CHA 101L, Human Gross Anatomy Laboratory

Environmental Science and Policy 100, General Ecology

Evolution and Ecology:
EVE 101, Introduction to Ecology
EVE 102, Population and Quantitative Genetics
EVE 103, Phylogeny and Macroevolution
EVE 104, Community Ecology
EVE 105, Phylogenetic Analysis of Vertebrate Structure
EVE 138, Ecology of Tropical Latitudes
EVE 141, Principles of Systematics
EVE 147, Biogeography
EVE 149, Evolution of Ecological Systems
EVE 175, Computational Genetics

Exercise Biology (Neurology, Physiology, and Behavior):
EXB 103, Analysis and Control of Human Movement
EXB 115, Biomechanical Bases of Movement

Geology:
GEL 107, Earth History: Paleobiology
GEL 107L, Earth History: Paleobiology Laboratory
GEL 108, Earth History: Paleoclimates
GEL 144, Historical Ecology
GEL 146, Radiogenic Isotope Geochemistry and Cosmochemistry

Molecular and Cellular Biology:
MCB 120L, Biochemistry Laboratory
MCB 121, Molecular Biology of Eukaryotic Cells

MCB 150, Developmental Biology
MCB 150L, Laboratory in Developmental Biology
MCB 160L, Principles of Genetic Laboratory
MCB 161, Molecular Genetics
MCB 162, Human Genetics
MCB 163, Developmental Genetics
MCB 164, Advanced Eukaryotic Genetics

Neurobiology, Physiology and Behavior:
NPB 101, Systemic Physiology
NPB 101L, Systemic Physiology Laboratory
NPB 102, Animal Behavior
NPB 123, Comparative Vertebrate Organology *(same course as APC 100)*
NPB 124, Comparative Neuroanatomy *(same course as PSC 124)*
NPB 150, Advanced Animal Behavior *(same course as PSC 122)*
NPB 152, Hormones and Behavior *(same course as PSC 123)*

Psychology:
PSC 101, Introduction to Psychobiology
PSC 113, Developmental Psychobiology
PSC 121, Physiological Psychology
PSC 122, Advanced Animal Behavior *(same course as NPB 150)*
PSC 123, Hormones and Behavior *(same course as NPB 152)*
PSC 124, Comparative Neuroanatomy *(same course as NPB 124)*

Science & Technology Studies 131, Darwin *(formerly History & Philosophy of Science 131)*

Statistics:
STA 104, Applied Statistical Methods: Nonparametric Statistics
STA 106, Applied Statistical Methods: Analysis of Variance
STA 108, Applied Statistical Methods: Regression Analysis
STA 130A, Mathematical Statistics: Brief Course
STA 130B, Mathematical Statistics: Brief Course

Wildlife, Fish, and Conservation Biology:
WFC 141, Behavioral Ecology
WFC 154, Conservation Biology

Other recommended courses include: ANT 5: Proseminar in Biological Anthropology, ANT 15: Behavioral and Evolutionary Biology of the Human Life Cycle, ANT 50: Evolution and Human Nature; GEL 1: The Earth; and PSC 1: General Psychology.

TOTAL FOR BACHELOR OF SCIENCE MAJOR..... ....99-105 UNITS