ANP

Biological Anthropology

ANP 101: Human Biology
The major concepts of biology are presented from historical, contemporary, and critical viewpoints. These concepts include the cell, the gene, molecular biology, development, and evolution. The human implications or values associated with each concept are emphasized. Formerly offered as BIO 101; not for credit in addition to BIO 101.

DEC: E
SBC: SNW
3 credits

ANP 120: Introduction to Biological Anthropology
An introduction to the evolutionary study of humans and nonhuman primates. The course provides an overview of basic evolutionary thought and principles; human variation and environmental adaptation; the anatomy, ecology, and behavior of nonhuman primates; the fossil record of nonhuman primates and human ancestors; current research on human origins; human behavior in an evolutionary context. When offered, ANP 121 is the associated laboratory component of ANP 120.

DEC: E
SBC: SNW
3 credits

ANP 121: Biological Anthropology Laboratory
Laboratory exploration of the fundamentals of Biological Anthropology based on a survey of the diversity and evolutionary history of humans and nonhuman primates. The development of scientific and evolutionary thought and method. The biological basis of inheritance and variation. Human variations and adaptations in relation to the environment. Physical characteristics and behavior of living primates. Evolution of primates and current research on human origins. Two hours of laboratory per week during which students will experience the research process, methods, and skills, and learn to collaborate in formal inquiry. Not for credit in addition to ANP 120 as offered prior to Fall 2010.

Corequisite: ANP 120
1 credit

ANP 201: Human Evolution
An overview of the evolution of the human lineage from its origins to the appearance of modern humans. Our evolutionary history involved some dramatic changes in anatomy and behavior, and we will explore both the significance of these changes, and the methods that scientists use to interpret them. The human fossil record is abundant, and will be our central focus. Emphasis will be placed on how we learn things about the past, as well as what we know.

Advisory Prerequisite: ANP 120, GEO 102, GEO 103, GEO 109, or any BIO course
DEC: E
SBC: SNW
3 credits

ANP 220: Controversies in Human Biology and Behavior
The study of controversially debated issues in the work of Physical Anthropologists. Surveys general aspects of primate and human behavior, human variation and adaptation, and the evolution of humans and human ancestors exploring previous and recent debates that have centered around issues such as for example the concept of evolution, gender roles and mating systems, role of aggression, and the role of hunting and gathering.

Advisory prerequisite: Introductory Anthropology or Biology course
DEC: H
SBC: STAS
3 credits

ANP 250: Forensic Anthropology
This is an introductory survey course to the field of forensic anthropology. Topics that focus on the medicolegal significance of the recovery and analysis of human remains will be covered. Postmortem taphonomic processes that can affect a body, and determination of time since death will be discussed. Particular attention will be paid to the determination of personal identity, such as sex, age and stature, from skeletal remains, and the analysis of skeletal trauma and cause of death. Contemporary issues such as mass disasters and human rights issues will be covered.

Advisory Prerequisite: ANP 120
DEC: E
SBC: SNW
3 credits

ANP 300: Human Anatomy
An introduction to the structure of the human body considered from both systems and regional approaches. Subject matter includes the musculoskeletal, respiratory, nervous, cardiovascular, digestive, and urogenital systems, together with an appreciation of these systems in a regional anatomical context. Laboratory sessions entail examination of plastic models, exercises in living anatomy and computer "dissection." Instructor permission required to repeat ANP 300. This course has been designated as a High Demand/Controlled Access (HD/CA) course. Students registering for HD/CA courses for the first time will have priority to do so.

Prerequisite: ANP 120 or one BIO course
DEC: E
SBC: STEM+
4 credits

ANP 304: Ecology: Linking People and Nature (with emphasis on the Turkana Basin)
With the world's longest sequence of datable deposits containing fossils of our ancestors, eastern Africa is the ideal place to examine humans' changing relations with our environment. This course familiarizes students with diverse ecological settings in the region today through tours and field exercises in highland forests, low-altitude grasslands, and lacustrine and riparian settings. Students learn various methods for paleoenvironmental reconstruction, and practice integrating different kinds of paleoenvironmental evidence in the field and laboratory facilities at TBI-Turkwel, Kenya. Examining modern vegetation and fauna in central and northwest Kenya shows students how human actions can degrade or conserve environments and resources in eastern Africa today.

Prerequisite: Permission of the instructor/Study Abroad office

ANP 305: Earth & Life Through Time: Vertebrate Paleontology & Paleoecology (emphasis on Turkana Basin)
Vertebrate fossils are important sources of information about the appearance, evolution, and extinction of major organisms. As such, they provide a valuable window into changes in climate and selection pressures, and organisms’ diverse adaptive responses to these changes. They are also significant in placing hominin discoveries within a relative local chronology, and helping reconstruct environments associated with hominin finds. This course acquaints students with methods of vertebrate paleontology employed in different chronological contexts of the Turkana Basin, used to solve diverse theoretical questions.

Prerequisite: Permission of the instructor/Study Abroad office

DEC: E


**SBC: SNW**

**3 credits**

**ANP 306: Human Evolution (and evidence from the Turkana Basin)**

The Turkana Basin is home to many paleoanthropological discoveries that fundamentally reshaped ideas about human evolution. Richard, Maeve, and Louise Leakey will share perspectives on eight of these finds, including Nariokotome ("Turkana boy") and KNM-WT1700 (the "Black Skull"). Lectures and readings for each discovery will cover: 1) the research questions and strategies that led to the find; 2) the kind of analyses that have yielded the most important interpretive conclusions about the find; 3) how this discovery reshaped views of the human past; and 4) what new directions it catalyzed in human evolution research. Class activities consist of lectures by the Leakeys, laboratory exercises (reconstructions, measurements) using casts of the 5 kinds, and field trips to discovery locations.

Prerequisite: Permission of the instructor/Study Abroad office

**DEC: H**

**SBC: STEM+**

**3 credits**

**ANP 307: Comparing Ecosystems in Madagascar**

The major goal of this course is to introduce the biodiversity and diversity of ecosystems on the island of Madagascar. In addition to exploring the different habitats within Ranomafana National Park, we will embark on a ten-day trip across Madagascar.

Prerequisite: Permission of the instructor/Study Abroad office

**DEC: E**

**SBC: SNW**

**3 credits**

**ANP 308: Paleoanthropological Field Methods in the Turkana Basin**

This course is one of three that constitutes the Turkana Basin Institute Summer Field School, an opportunity to participate in all aspects of a paleoanthropological research project, focusing on practical aspects of vertebrate paleontology, geology, zooarchaeology and taphonomy. Students are trained in field reconnaissance, fossil survey, plotting, preservation, and collection, analysis and interpretation. Hands-on examination of fossils from Plio-Pleistocene or Holocene sites around Lake Turkana will teach students how human ancestors and other animals adapted to the environments around them. Experts from TBI, Stony Brook, and other institutions provide instruction in lectures, labs, and via fieldwork within the context of on-going projects.

Prerequisite: Permission of instructor/Study Abroad office

**SBC: STEM+**

**3 credits**

**ANP 310: Environments, Ecosystems and Evolution: Evidence from the Turkana Basin**

An introduction to the ways scientists use the fossil and archaeological records to learn about past changes in Earth's climates and environments, and how humanity's ancestors responded to those changes physiologically and technologically. Interdisciplinary lectures will show evidence from the Turkana Basin's paleoenvironmental, fossil and archaeological records of the dynamic interactions between the climate, environment, local food webs, and ancient human populations. This background will prepare students for training in paleoanthropological and archaeological field methods.

Prerequisite: Permission of the instructor/Study Abroad office

**DEC: E**

**SBC: GLO, SNW**

**3 credits**

**ANP 321: Primate Evolution**

The evolution of the order Primates from its origins to the appearance of the human family. Primate origins; the first primates of modern aspect; origins and adaptive radiations of monkeys; appearance and adaptations of apes and humans. Relevant topics in geology such as geochronology, paleogeography, taphonomy, and paleoecology.

Prerequisite: ANP 120

**SBC: STEM+**

**3 credits**

**ANP 326: Lemurs of Madagascar**

The course explores the biology, ecology, social behavior, and conservation of Madagascar's lemurs. We will discuss case studies based on current field and captive research, in this way highlighting important principles in behavior and ecology. Critical thinking on current topics in general primate behavior will be emphasized through various discussion formats. The evolutionary continuum between humans and other primates will be explored. Throughout the course, we will pay attention to conservation threats that menace the well-being of lemur today.

Prerequisite: Permission of instructor/Study Abroad office

**3 credits**

**ANP 330: Methods in Studying Primates**

Introduction to the concepts and practical skills needed to conduct scientific work, particularly in the study of primates, including how to collect and analyze data focusing on habitat description, primate densities, use of space, and social interactions. Topics include design and presentation of research; ecological field methods; behavioral observations and other techniques. Students are required to plan a small research study and to present their proposal in class. Some computer work outside class required.

Prerequisite: Permission of instructor/Study Abroad office

**3 credits**

**ANP 351: Biodiversity Assessment Methods for Tropical Field Research**

Offered in Madagascar, this intense experiential learning course is geared towards undergraduate students interested in field research in the tropics. Students will explore both the practical aspects of field biological research and conceptual topics related to tropical biodiversity. Emphasis will be learning to measure the species diversity, and population density of the species of plants, birds, mammals, insects, amphibians and reptiles of Madagascar. Emphasis will be placed on critical thinking with regards to the origins of tropical biodiversity. Practical, hands on field techniques and methods will be conducted including safety, mapping, line transect surveys, mist netting, behavioral observations and collecting and preserving samples, photography, and measurement of environmental variables such climate.

Prerequisite: appropriate interest in subject matter

**3 credits**

**ANP 360: Primate Conservation**

Review of endangered species of primates and case histories of conservation programs in Asia, Africa, South America, and Madagascar, highlighting different problems and solutions. Advisory Prerequisite: ANP 120 or BIO 201 and BIO 204

**DEC: H**

**SBC: STAS**

**3 credits**

**ANP 387: Independent Biodiversity Research Project in Madagascar**

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ANTHROPOLOGY (ANT) - COURSES

Fall 2019 Bulletin

Allows students to apply the knowledge and research methods they have acquired in preceding courses during the study abroad experience (including: ANP 351 Biodiversity in Field Methods; ANP 307 Comparing Ecosystems in Madagascar; and ANP 326 Lemurs of Madagascar (3 Credits Each)). Students will design their own research project, and carry it through from hypothesis generating, data collection, statistical analyses and written and oral presentation of results. This project will allow students to showcase both their interests and academic skills.

This course includes research on biodiversity. Some subjects could include impacts of human disturbance on biodiversity, species and abundance of frogs in large streams vs small streams, infant development and play in lemur groups with single infant vs lemur groups with two or three infants.

Prerequisite: appropriate interest in subject matter and background in ecology and conservation
3 credits

ANP 391: Topics in Biological Anthropology
Discussion of a topic of current interest in physical anthropology. May be repeated as the topic changes.
Prerequisite: ANP 120
Advisory prerequisite: One other ANP course
3 credits

ANP 399: Advanced Field Research in the Turkana Basin
Intended to follow the Turkana Basin Institute (TBI) Field School in NW Kenya. It should facilitate TBI field school alumni participation in ongoing field projects directed by senior researchers within the Turkana Basin. Upper-division Stony Brook undergraduates who demonstrate readiness may undertake a junior role within a larger project focusing on archaeology or human ecology (ANT 399) or paleoanthropology or vertebrate paleontology (ANP 399). The nature of ANT/ANP 399 offerings each semester will depend on which senior scholars are conducting field research and whether their projects are suitable for undergraduate involvement. They may include the opportunity to join a paleoanthropological survey of ancient landscapes for vertebrate remains (ANP 399), or to join an archaeological excavation of a 4000-year-old habitation site (ANT 399). Credit for each offering is determined for by the TBI faculty and is consistent for all registrants.
Prerequisite: Permission of the instructor. One or more of the following courses: ANP 305, ANP 306, ANP 304, ANT 307, GEO 303
3-12 credits

ANP 401: Pastoralism under pressure: Savannas, Societies, and Sustainability in East Africa
An in-depth examination of the linkages and feedbacks that connect water to vegetation production, animal movement, and the economy and health of traditionally pastoralist societies in East Africa. Integrating the fields of ecology, hydrology, biological and cultural anthropology, and sustainability studies, this course challenges students to develop innovative approaches to promote resilience and sustainability in savanna ecosystems and societies. Student-driven discussion and independent research are emphasized.
Prerequisite: one ANT/ANP/EBH/BIO course at the 300-level or higher with grade of C or better
SBC: ESI, STAS
3 credits

ANP 403: Seminar in Biological Anthropology
Research and discussion of selected topics in physical anthropology. May be repeated as the topic changes.
Prerequisite: Permission of instructor
3 credits

ANP 404: Human Osteology
A detailed study of the anatomy of the human skeleton with special emphasis on the interpretation of skeletal remains from archaeological contexts. Consideration is given to the growth, structure, and function of bones, and to forensic aspects such as the determination of age, sex, stature, and pathology from skeletal remains. Students conduct a research project on a human skeleton.
Prerequisites: ANP 300: permission of instructor
3 credits

ANP 405: Human Evolution in the Headlines
Exploration of how anthropologists reconstruct the biology and behavior of extinct human species. The class addresses how anthropologists estimate body size in individual fossils, establish the evolutionary relationships among species, and determine what different species ate when they were alive, among other topics. Topics are approached by reading scientific articles and reading popular accounts of anthropological discoveries and research. Students are encouraged to actively participate in class through presentations and discussion of readings. Emphasis is on developing critical thinking and writing skills. The goals of this class are multifaceted and include learning modern techniques for reconstructing the behavior, systematics, and biology of extinct humans, and discerning between facts, analysis, and interpretation in science. Note: students who have taken ANP 403 with this topic may not take ANP 405 for credit.
Prerequisite: ANP 120 or ANP 201
3 credits

ANP 406: Pseudoscience and Anthropology
Course will examine some common misconceptions, as well as deliberate frauds, related to the field of Anthropology. Bigfoot, Atlantis, and ancient astronauts remain common subjects in mainstream media, but what do we, and what can we, really know about such subjects? In this course we will assemble a basic toolkit for skeptical inquiry, and apply it to several examples of anthropological pseudoscience. Dissecting these cases leads to an investigation of how we can distinguish truth from falsehood, and knowable facts from unknowable conjectures. Lastly, we will try to understand the persistence of pseudoscience and other forms of nonsense in our culture, as these clearly thrive despite their lack of grounding in reality.
Prerequisite: ANT 104, ANP 120, and either ANP 201 or ANP 220
DEC: H
SBC: STAS
3 credits

ANP 407: Building Bones: Bone Development and Evolution
An overview of the evolution, development, and growth of the skeleton, with a focus on mammals, primates, and humans. Students will review fundamental bone biology concepts, then read and discuss classic and current research on the evolution of bone development and the developmental basis for specific evolutionary changes in bone morphology. While much bone biology research has been completed in animal models, this course specifically builds a foundation for students to understand and critique current studies on the evolution and development of primate and human skeletal morphology.
Prerequisite: ANP 120 or BIO 201 or BIO 202
SBC: STEM+
3 credits

**ANP 410: Comparative Primate Anatomy**

In-depth examination of the relationship between primate anatomical form and function, with an emphasis on adaptations to locomotion and diet. Topics covered by lecture and in-class assignments include primate musculoskeletal anatomy, natural selection and adaptation, methods in functional morphology, primate diet and locomotion, and the reconstruction of behaviors in extinct primates. Students will write a research proposal to investigate an area of study in primate functional morphology.

*Prerequisite: ANP 120 or BIO 201*

*SBC: ESI, STEM+*

3 credits

**ANP 444: Experiential Learning**

This course is designed for students who engage in a substantial, structured experiential learning activity in conjunction with another class. Experiential learning occurs when knowledge acquired through formal learning and past experience are applied to a "real-world" setting or problem to create new knowledge through a process of reflection, critical analysis, feedback and synthesis. Beyond-the-classroom experiences that support experiential learning may include: service learning, mentored research, field work, or an internship.

*Prerequisite: WRT 102 or equivalent; permission of the instructor and approval of the EXP+ contract (http://sb.cc.stonybrook.edu/bulletin/current/policiesandregulations/degree_requirements/EXPplus.php)*

*SBC: EXP+*

0 credit, S/U grading

**ANP 447: Readings in Biological Anthropology**

Individual advanced readings on selected topics in physical anthropology. May be repeated up to a limit of 6 credits.

*Prerequisite: Permission of instructor*

3 credits

**ANP 475: Undergraduate Teaching Practicum I**

Work with a faculty member as an assistant in one of the faculty member's regularly scheduled classes. The student is required to attend all the classes, do all the regularly assigned work, and meet with the faculty member at regularly scheduled times to discuss the intellectual and pedagogical matters relating to the course.

*Prerequisite: Permission of the instructor*

*SBC: EXP+*

3 credits, S/U grading

**ANP 476: Undergraduate Teaching Practicum II**

Work with a faculty member as an assistant in one of the faculty member's regularly scheduled classes. Students assume greater responsibility in such areas as leading discussions and analyzing results of tests that have already been graded. The course in which the student is permitted to work as a teaching assistant must be different from the course in which he or she previously served. Not for major or minor credit.

*Prerequisite: Permission of the instructor*

*SBC: EXP+*

3 credits, S/U grading

**ANP 478: Internship in Biological Anthropology**

Participation in state, local, and national public and private agencies and organizations. Students are required to submit written progress reports and a final written report on their experiences to the faculty sponsor and the department. May be repeated up to a limit of 12 credits.

*Prerequisite: Permission of the instructor*

*SBC: EXP+*

0-6 credits

**ANP 487: Independent Research in Biological Anthropology**

Independent research projects carried out by upper-division students. The student must propose the research project, carry it out, analyze the data, and submit the results in a written form acceptable to the sponsor. May be repeated up to a limit of six credits.

*Prerequisite: Permission of the instructor*

*SBC: EXP+*

3 credits

**ANT 102: What Makes Us Human?**

The analysis of social and cultural topics such as kinship, family, marriage, politics, and religious systems, with an emphasis on their particular expression in non-Western societies.

*DEC: F*

*SBC: GLO, SBS*

3 credits

**ANT 103: Archaeology for a Better World**

An exploration of archaeology's contributions to contemporary law, health, education, and environmental conservation. It also examines how politicians and others use archaeology for their own ends. Topics include forensic archaeology, palaeoecological, climate change, and Native-, African- and Asian-American heritage.

*SBC: GLO, SBS*

3 credits

**ANT 104: Archaeology**
What is archaeology? How does it work? Archaeology studies human behavior using remains of the past, everything from trash to art and from burials to buildings. Archaeologists examine artifacts, human remains, animal bones, landscape patterns, and more. Students learn essential concepts and methods that archaeologists use to investigate life in the past.

**DEC:** F  
**SBC:** SBS  
3 credits

**ANT 200: Contemporary and Historical Perspectives on Insular Southeast Asia**

The history, politics, and cultures of Indonesia, Malaysia, Singapore, the Philippines, East Timor, and Brunei. Special attention is given to the religious ideas and rituals, and relationships of power throughout the archipelago. The largest country by far in the region, Indonesia, receives most attention.  
*Prerequisite:* ANT 102

**DEC:** J  
**SBC:** GLO, SBS+  
3 credits

**ANT 201: Peoples of South America**

A survey of the social, cultural, and historical aspects of South American native peoples. Attention is given to issues of demography and biology, ecology, and cultural evolution. In-depth study of selected cultures and comparative study in selected cultural topics form the core of the course. Particular emphasis is given to topics of culture contact, culture change, tribal cultures in a context of national development, and cultural pluralism.  
*Advisory Prerequisite:* ANT 102

**DEC:** J  
**SBC:** GLO  
3 credits

**ANT 203: Native Peoples of North America**

The various peoples and cultures of North America are studied with special respect to their local, educational, linguistic, social, and cultural patterns. Selected societies are studied in depth.

*Advisory Prerequisite:* ANT 102

**DEC:** J  
**SBC:** GLO  
3 credits

**ANT 205: Ancient Japanese Civilization**

This course surveys the emergence of early Japanese civilization from prehistoric times to the Nara period in the 8th century. A.D. Analytical focus will be placed on specific topics, including the significance of population movement, the influence of Chinese civilization, the centralization of political authority, the development of Japanese language and early literacy, and the roles of ancient Japanese religion and mythology. These topics will be examined from archaeological, anthropological, and historical perspectives. The course aims to provide a thorough foundation for further study in Japanese history and culture.

**DEC:** J  
**SBC:** GLO  
3 credits

**ANT 207: From Cavemen to Vikings: The Prehistoric Archaeology of Europe**

Explores the prehistory of Europe from the arrival of the first humans until the end of the Viking Age. We will study Neanderthal and modern human interactions, the ritual systems of Palaeolithic cave painters, the Mycenaeans that built megalithic monuments, the beginnings of agriculture, the Mycenaean culture that built Europe’s first civilization, and the Northern European “vikings” and “barbarians” who terrorized Rome and inherited post-classical Europe. The purpose of the course is to critically examine a number of themes and topics, such as subsistence adaptations, island settlement, trade, metallurgy and other technologies, rise of complex societies, early states, writing, religion and mortuary practices, women in ancient society, etc., emphasizing the similarities and differences within areas of Europe.  
*Advisory Prerequisite:* ANT 104

**DEC:** F  
**SBC:** GLO  
3 credits

**ANT 208: Zombiology: What the Walking Dead Can Teach Us About Real Humans**

Zombie memes have become very popular in culture and media over the past several years. Many aspects of modern zombie lore, as represented in books, movies, and television programs such as The Walking Dead, are germane to understanding important issues in current affairs, science, and other topics of anthropological interest. In this class, we will use scenes from zombie media as prisms through which to examine topics such as the spread of infectious disease in our globalized and densely populated world, predation on humans, forensic analysis of trace evidence like tooth and cut marks, the collapse of civilizations, human behavior in small band societies, violent conflict, etc.

**DEC:** J  
**SBC:** STAS  
3 credits

**ANT 215: Climate and Culture**

Climate change is one of the most important issues facing humans today, but its nature and causes are debated. Interpreting and projecting past, present, and future changes in climate, pinpointing their causes, and understanding their effects on ecosystems and human societies, is extremely challenging. This course acquaints students with the intricacies of climate change debates by 1) Explaining natural causes of climate change; 2) Examining past interactions between climate and human land use; 3) Probing evidence for recent anthropogenic climate change and effects on different populations around the world; and 4) Exploring different viewpoints about climate change today.

**DEC:** J  
**SBC:** STAS  
3 credits

**ANT 230: Peoples of the World**

A comparative study of the lifeways of selected types of peoples, defined by adaptation, focusing on their ecology, economy, political organization, and social organization. Groups discussed include the gathering-and-hunting Ju’hoansi of Africa, the horticultural Kaluli of New Guinea, the pastoralist Basseri of Iran, plus selected peasant and migrant groups. Recent changes affecting indigenes, brought about by technological developments and intercultural contact, are discussed.

*Prerequisite:* ANT 102

**DEC:** J  
**SBC:** SBS+  
3 credits

**ANT 245: African Cultures Today**

Africa hosts diverse cultures, environments, languages, and economies. This course explores Africa via the voices of Africans themselves, and observations by anthropologists who have spent many years on the continent. Case studies of societies in different regions examine how environments and economies shape cultural traditions and social values. We also consider how African societies have transformed in response to challenges such as the slave trade, colonialism, and globalization.

**DEC:** J
ANTHROPOLOGY (ANT) - COURSES

SBC: GLO
3 credits

ANT 252: Personality and Culture
The role of culture as a factor in personality and character formation and how different cultures handle the basic human drives, especially aggression. The course also discusses cultural influences on gender role, violence and social control, and mental health. Case studies from South America, Oceania, Malaysia, and southern Europe are compared.

DEC: E
SBC: SNW
3 credits

ANT 260: How We Eat
This course explores how people's food habits are shaped not only by their biological needs, but also by the economic, political, ecological, and social worlds in which they live. The breadth of anthropology (biological anthropology, cultural anthropology, and archaeology) is brought to bear on issues including the economic and political underpinnings of American as well as other food cultures; the relationship between food habits and health (both over-and under-eating); the environmental impacts of various methods of food production; the relationship between food and social status; gendered food production as well as food consumption; food's role in religion; ethical eating; the limits of current knowledge (e.g., changing dietary recommendations); and the socioeconomic pressures that keep individuals eating according to cultural norms. The class discusses foodways in a variety of present and past cultures, but the emphasis is on modern American food culture and the cultural, economic, ecological, and political realities that shape it. Students will explore how these realities affect their own lives and eating habits.

DEC: K
SBC: SBS, USA
3 credits

ANT 268: Archaeology of Human Origins
A survey of the archaeological evidence for behavioral variability and adaptation by early humans during the course of the Pliocene, and Early-Middle Pleistocene epochs (2.7-0.1 million years ago). Topics include early stone tool use, origins of hunting, early fire use, adaptations to glacial climates, behavioral differences among hominins living in Africa, Europe, and Asia. Previously offered as ANT 368; not for credit in addition to ANT 368.

Advisory Prerequisite: ANT 104

ANT 270: Great Archaeological Discoveries
King Tutankhamun's tomb in Egypt, the mountain city of Machu Picchu in Peru, and the Terracotta Army of the first Chinese Emperor still thrill and mystify the world, more than a century after discovery. This class will unlock the secrets of these and other famous archaeological sites, including the stone circles of Stonehenge, the ancient ruins of Pompeii and the recently uncovered grave of King Richard III. We will explore scientific methods and cutting-edge forensic techniques used today by archaeologists to reconstruct past events. The global perspective of this class will illuminate our shared past and cultural heritage.

Advisory Prerequisite: ANT 104

ANT 277: The Origins of Art
Humans make art, and art is all around us. The magnificent prehistoric paintings of multicolored horses, bison, and humans at the Lascaux and Altamira caves were created by artists living 30,000 years ago - but what came before it, and why did humans or their ancestors start being artistic? We will explore this chronologically, examining cave art and other early creative works, including bird-bone musical instruments, carved ivory figurines, shell ornaments, and older more disputed symbolic artifacts. Placed in broader archaeological context, we will learn about prehistoric cultures and debate the shamanistic, ecological, and hunting theories advanced to account for early art.

DEC: D
SBC: ARTS
3 credits

ANT 290: Science and Technology in Ancient Society
Examination of the role of advances in science and technology in societies ranging from the earliest humans to the archaic civilizations of the Old and New Worlds. The course focuses on such innovations as tool making, fire, metallurgy, writing, mathematics, complex architecture, and relates these innovations to changes in sociopolitical organization.

DEC: H
SBC: STAS
3 credits

ANT 305: Culture and Language of Madagascar
The major goal of this course is to introduce students to the Malagasy culture. Students will attend formal classes with native Malagasy speakers meet with local community and school groups, and attend a variety of cultural activities within the towns and villages that surround RNP.

Prerequisite: Permission of instructor/Study Abroad office

SBC: GLO, SBS+
3 credits

ANT 307: Prehistoric Archaeology of Africa (with emphasis on the Turkana Basin)
Tools changed early humans from one among many African primates to the equivalent of a global geological force. Stone tools and other technologies enabled early hominins to become the first organisms that could purposefully change their environment to suit their needs. This course traces the development of human technology where it first appears, in Eastern Africa, more than 3 million years ago. Course topics include the cognitive abilities of early humans implied by their technologies, early human adaptation and social behavior, and the inter-relationships between stone tool technology, paleoecology, and hominin biological evolution. Lectures and practical exercises teach students how to document the archaeological record and how to test hypotheses about early human behavior. Field excursions teach archaeological survey and excavation techniques. Students conduct research and report their findings in writing and in oral presentations. Evaluation is based on quizzes, a final exam, group projects, a
research paper, and participation. This course is taught in Kenya during the Turkana Basin Institute Field School Study Abroad program.  
Prerequisite: Permission of the instructor/Study Abroad office  
DEC: H  
SBC: SBS+, SPK  
3 credits  

ANT 310: Ethnography  
A particular cultural area of the world, such as sub-Saharan Africa, Oceania, Mexico and Guatemala, Asia, or the Middle East, is considered in terms of its history and ecology, with a comparative analysis of the cultural systems and social arrangements of representative ethnic groups. The aim of the course is to provide an overview of cultural diversity and uniformity in an area outside of Europe. May be repeated as the topic changes.  
Prerequisite: ANT 102  
Advisory prerequisite: One other ANT course  
DEC: J  
SBC: CER, SBS+  
3 credits  

ANT 311: Immersion in Another Culture  
A specific world area, such as the highlands of New Guinea or the Nilotic Southern Sudan, or a particularly well-documented people such as the Trobriand Islanders, are considered in detail. Lectures, texts, and films consider ecology, history, social change, language, cultural systems, and social arrangements toward providing students with a comprehensive understanding of another cultural system. May be repeated as the topic changes.  
Prerequisite: ANT 102  
DEC: J  
SBC: SBS+  
3 credits  

ANT 320: Historical Archaeology  
Explores the archaeology of North America from the 15th century through the mid-20th century, looking at how historical archaeologists use artifactual, documentary, and oral history evidence to reconstruct and interpret the past. Recent theoretical, methodological, and thematic developments in historical archaeology will be examined, along with the study of how material culture can reflect social identity (race, class, gender, ethnicity).  
Prerequisite: ANT 104  
3 credits  

ANT 321: Archaeological Field Methods  
An opportunity to participate in all aspects of an archaeological research project. Students are trained in excavation, recording, artifact retrieval, surveying, field sorting techniques, and interpretation. This course is usually held in the summer and involves excavation of a prehistoric or early historic site.  
Prerequisites: ANT 104; permission of instructor  
SBC: SBS+  
3-6 credits  

ANT 350: Medical Anthropology  
An introduction to the cross-cultural study of health, illness, and curing. Topics covered include the human body as cultural construct, theories of illness causation, alternative medical systems, epidemiology, ethnopharmacology, cross-cultural psychiatry, sex and reproduction, nutrition, and the implications of culture for pain perception, stress, and health risk management.  
Prerequisite: ANT 102  
DEC: F  
SBC: SBS+  
3 credits  

ANT 351: Comparative Religion  
A survey of religious behavior in cross-cultural perspective. The approach is broadly comparative and eminently anthropological, involving theories of origin and evolution of religious systems, as well as the functioning of religious behavior and institutions within the total culture. Case study material is drawn primarily from preliterate societies, but some reference is made to the large organized religious systems of complex stratified societies.  
Prerequisite: ANT 102  
DEC: F  
SBC: SBS+  
3 credits  

ANT 353: Archaeological Analysis and Interpretation  
Laboratory analysis of recently excavated prehistoric or early historic site. Types of prehistoric material analyzed include lithic and ceramic artifacts and the remains of shellfish and vertebrates.  
Prerequisite: Permission of instructor  
3 credits  

ANT 354: Family, Kinship, and Marriage  
Concepts of family, kinship, marriage, incest, exogamy: their source in nature and culture and their social implications. Major theories are discussed historically, demographically, and ecologically. Brief case studies are presented to illustrate theories of social anthropology.  
Prerequisite: ANT 102  
DEC: F  
SBC: GLO, SBS+  
3 credits  

ANT 355: Ancient African Civilizations  
African archaeology is reshaping global debates on the origins of agriculture and civilization. This course examines the prehistoric economic foundations of Africa's complex societies: intensive hunting and gathering, early herding, and plant domestication. Detailed case studies of ancient civilizations (Egypt, Aksum, Jenne, Swahili, and Great Zimbabwe) reveal distinct processes of prehistoric social change in different parts of Africa. Students consider the implications of archaeology for African heritage conservation, research, and public education. This course is offered as both AFS 355 and ANT 355.  
Prerequisites: One 100-level course in AFS or ANT  
DEC: J  
SBC: GLO, SBS+  
3 credits  

ANT 357: The Agricultural Revolution  
The origins and consequences of agrarian (food-producing) adaptations. Examination of the social, technological, and ecological changes that occurred when humans shifted from hunting and gathering to agriculture and pastoralism around 8000 years ago. Current theories about the origins and consequences of agro-pastoralism are evaluated in light of recent evidence from both Old and New Worlds.  
Prerequisite: ANT 104  
DEC: F  
SBC: ESI, SBS+  
3 credits  

ANT 358: The Origins of Social Inequality: First Cities  
What led our ancestors to move from the safety of small intimate communities to large, anonymous cities and to what extent were these societies similar in their development and structure? What were the ingredients that led to the world's first state societies, and were these transformations beneficial or detrimental to the larger population? Why do we refer to them as civilizations; were they, in fact, civilized? This course explores these questions through an examination of the archaeological and written records of the early civilizations in
ANTHROPOLOGY (ANT) - COURSES

Mesopotamia, Egypt, the Indus Valley, China, Mesoamerica and Peru.
Prerequisite: ANT 104
DEC: J
SBC: GLO, SBS+
3 credits

ANT 359: The Archaeology of Food
Explores the archaeological study of food and foodways. The emphasis is on the social aspects of food, particularly its roles in past power structures, social relationships, conceptions of identity, ritual practices, and gender roles. Also covers the theoretical and methodological approaches archaeologists use to study food in the past.
Prerequisite: ANT 104
DEC: J
SBC: GLO, SBS+
3 credits

ANT 360: Ancient Mesopotamia
The organization and development of the social, economic, political, and religious systems of ancient Mesopotamia through study of the archaeological and textual records. This course stresses the first two thousand years of this civilization, from 3500 B.C. to 1500 B.C.
DEC: J
SBC: GLO, SBS+
3 credits

ANT 362: Long Island Archaeology
Life on Long Island from its first settlement by Native Americans 12,000 years ago until the end of the 17th century. Trends and changes in human behavior are studied in the context of environmental and cultural processes affecting all of northeastern North America.
Prerequisite: ANT 104
DEC: J
SBC: SBS+, SPK
3 credits

ANT 363: Approaches in Archaeology
A survey of archaeological thought from early antiquarianism through the culture history, processual, and post-processual approaches to the investigation and analysis of past societies. Emphasis is placed on the ways in which changes in archaeological theory reflected changes in ideas within the sister fields of sociology, cultural anthropology and geography. Other topics discussed include ethnographic analogy, systems theory, site formation processes and spatial analysis.
Prerequisite: ANT 104
DEC: F
SBC: SBS+

3 credits

ANT 367: Male and Female
A study of the manifestation of sex roles in different cultures. Discussion topics include the impact of social, economic and political organization on gender roles and relationships, sexual orientation in cross-cultural perspective, and contemporary theories of gender inequality. Readings present both the male and female viewpoints.
DEC: F
SBC: ESI, SBS+
3 credits

ANT 371: Ancient China
Explores the development of social, economic, political, and cultural systems in ancient China, from the neolithic period through the Han dynasty. Draws on archaeological data and historical texts to examine the emergence of state-level polities and their subsequent unification under imperial authority. Analytical focus is on political economy, social organization, ritual exchange, and notions of power and rulership expressed in philosophical thought. This course is offered as both AAS 371 and ANT 371.
Prerequisites: U3 or U4 standing; one D.E.C.
DEC: J
SBC: SBS+
3 credits

ANT 372: Family, Marriage, and Kinship in China
Examines forms and dynamics of social organizations in Chinese society, focusing on cultural, social, and economic aspects of family, marriage, and extended kinship relations such as lineages, clans, and sworn brotherhoods. Particular attention is paid to how gender, generation, class, and ritual exchange shape identity, status, and power. This course is offered as both AAS 372 and ANT 372.
Prerequisite: ANT 102
Advisory Prerequisites: AAS 220 and ANT 354
DEC: J
SBC: SBS+
3 credits

ANT 377: Animal Tool Use
Tool use and manufacture was once believed to be uniquely human and the distinctive hallmark of human cognitive advancement. The discovery that some non-human animals, including birds, are capable tool users and in some cases tool makers offers exciting opportunities to examine such behaviors in living species. It opens up important implications for understanding animal intelligence, the emergence of culture and the supposed uniqueness of our own species. This class provides an overview of animal tool use and manufacture to compare and contrast the behavior of humans and animals.
DEC: E
SBC: ESI, SNW
3 credits

ANT 379: Ethnicity and Ecology in China
This course explores issues of ethnic and national identity in the context of the social ecology of the Chinese state, both past and present. It focuses on the material and social relationships that have shaped perceptions of, and interactions between, cultural groups in China and along its frontiers. Drawing on case studies from the Himalayan plateau, Yunnan highlands, Inner Asian steppes, Taiwan, and elsewhere, students examine how sustenance strategies, economic organization, and political administration have influenced construct of ethnic identity. This course is offered as both AAS 379 and ANT 379.
Prerequisite: U3 or U4 standing
Advisory Prerequisite: AAS 220 or HIS 219 (or the former CNS 249 or 250)
DEC: J
SBC: SBS+
3 credits

ANT 380: Race and Ethnicity in Latin America and the Caribbean
Concepts and theories of race and ethnicity in Latin American and Caribbean settings. The historical evolution and the contemporary social and cultural significance of racial and ethnic identities within the region are explored. Specific examples of social relations characterized by ethnic or racial conflict are presented. This course is offered as both AFS 380 and ANT 380.
Prerequisite: U3 or U4 standing
Advisory Prerequisite: AFS 240 or LAC 200
DEC: J
SBC: GLO, SBS+
3 credits

ANT 381: Applied Anthropology
A practical, career-oriented examination of how anthropological theory and method can be put to use in non-academic areas such as economic development, public health, environmental conservation, education, technology development, cultural advocacy, business, and law. Coordinated readings provide case illustrations.
ANT 385: Prehistoric Peoples of the Americas
Life in the Americas from first settlement at the end of the last ice age until the arrival of the Europeans in the 15th and 16th centuries. The culture, history, and evolution of prehistoric peoples of North, Central, and South America are treated. Specific topics covered include settlement by Native Americans, hunting-gathering lifeways, plant and animal domestication, the origins of village life, and state-level societies.
Prerequisite: ANT 104
DEC: F
SBC: SBS+
3 credits

ANT 387: Independent Cultural Research Project in Madagascar
Allows students to apply the knowledge and research methods they have acquired in preceding courses during the study abroad experience (including: ANP 351 Biodiversity in Field Methods; ANP 307 Comparing Ecosystems in Madagascar; and ANP 326 Lemurs of Madagascar-3 credits each). Students will design their own research project, and carry it through from hypothesis generating, data collection, statistical analyses and written and oral presentation of results. This project will allow students to showcase both their interests and academic skillsets. The subject of this research will be based in human communities. Most research will be questionnaire-based. Some projects will include data collection. Subjects can include medicinal plants, cultural use of forest resources, taboos, and gender roles to name a few.
Prerequisite: appropriate interest in subject matter and background in ecology and conservation
3 credits

ANT 390: Topics in Social and Cultural Anthropology
May be repeated as the topic changes.
Prerequisite: ANT 102
DEC: F
SBC: SBS+
3 credits

ANT 391: Topics in Social and Cultural Anthropology
May be repeated as the topic changes.
Prerequisite: ANT 102
DEC: F
SBC: SBS+
3 credits

ANT 393: Topics in Archaeology
Topics in archaeology are taught from a social sciences perspectives. Recent topics have included: Origin of Modern Humans, Advent of the Iron Age, Old World Archaeology, and Ancient Egypt. May be repeated as the topic changes.
Prerequisites: ANT 104 and one other anthropology course
DEC: F
SBC: SBS+
3 credits

ANT 394: Topics in Archaeology
Topics in archaeology are taught from a social sciences perspectives. Recent topics have included: Origin of Modern Humans, Advent of the Iron Age, Old World Archaeology, and Ancient Egypt. May be repeated as the topic changes.
Prerequisites: ANT 104 and one other anthropology course
DEC: F
SBC: SBS+
3 credits

ANT 395: Religions of the Caribbean
An ethnographic approach to the relationship among religion, social organization, and identity politics through studying cultural and historical bases of Christianity, Islam, Hinduism, and their related religious manifestations in the Caribbean. Class stratification, ethnic conflict, and fundamentalist movements are explored. This course is offered as both AFS 395 and ANT 395.
Prerequisite: U3 or U4 standing
Advisory Prerequisite: ANT 351
DEC: J
SBC: SBS+
3 credits

ANT 399: Advanced Field Research in the Turkana Basin
Intended to follow the Turkana Basin Institute (TBI) Field School in NW Kenya. It should facilitate TBI field school alumni participation in ongoing field projects directed by senior researchers within the Turkana Basin. Upper-division Stony Brook undergraduates who demonstrate readiness may undertake a junior role within a larger project focusing on archaeology or human ecology (ANT 399) or paleoanthropology or vertebrate paleontology (ANP 399). The nature of ANT/ANP 399 offerings each semester will depend on which senior scholars are conducting field research and whether their projects are suitable for undergraduate involvement. They may include the opportunity to join a paleoanthropological survey of ancient landscapes for vertebrate remains (ANP 399), or to join an archaeological excavation of a 4000-year-old habitation site (ANT 399).
Credit for each offering is determined for by the TBI faculty and is consistent for all registrants.
Prerequisite: Permission of the instructor. One or more of the following courses: ANP 305, ANP 306, ANT 304, ANT 307, GEO 303
3-12 credits

ANT 401: Problems in Social and Cultural Anthropology
Research and discussion of a selected topic in social and cultural anthropology. May be repeated as the topic changes.
Prerequisite: ANT 102
Advisory prerequisite: Two other ANT courses at the 200 level or higher
3 credits

ANT 402: Problems in Archaeology
Research and discussion of a selected topic in the prehistory of the Old and New Worlds. May be repeated as the topic changes.
Prerequisite: ANT 104
Advisory prerequisite: Two other archaeology courses
SBC: ESI, SBS+
3 credits

ANT 405: Cultural Ecology
Using the model of ecological adaptation as a starting point, this course explores the impact of the natural and social environment upon human culture. By the latter is meant the way of life of a particular society: its politics, religion, ways of thought, moral standards, rituals and ceremonies, gender ideals and sex roles, and other aspects of ideology and belief. The course uses two anthropological texts that provide background concepts and terminologies, then exposes students to empirical case studies of ecological adaptation, both in pre-literate and literate societies.
Prerequisite: ANT 102
Advisory prerequisite: 200 level or higher ANT course
3 credits

ANT 410: Ethnobotany and Paleoethnobotany
Explores relations between plants and people, both in present (ethnobotany) and prehistoric...
A detailed overview of the methods archaeologists use to extract behavioral information from prehistoric stone tools. The course examines raw material economy, technological strategies, tool use, and discard behavior. Analytical methods are practiced through the computer-assisted analysis of tools from simulated archaeological sites.

Prerequisite: ANP 120 or ANT 104 with grade of C or better and one other ANT/ANP/EBH course at 200 level or higher with grade of C or better

SBC: ESI, SPK, TECH
3 credits

**ANT 419: Zooarchaeology**

The study of animal bones from archaeological sites. Special emphasis is on the identification of fragmented bone and surface modification, calculation of indexes of abundance, and measurement and metrical analysis of mammal bone. Computer analysis is stressed, and the class seeks a fusion of traditional zooarchaeology and actualistic studies. Three to four hours of computer laboratory work required per week.

Prerequisites: ANT 104 or ANP 120; permission of instructor

Advisory Prerequisite: One other archaeology course

SBC: SBS+
3 credits

**ANT 420: Environmental Analysis Using Remote Sensing and Geographic Information Systems**

The use of aerial and satellite imagery in environmental analysis and the manipulation of geographic data sets of all types using Geographic Information Systems. Concentrating on Long Island, each student designs and completes a research project on a particular section of the area, focusing on the habitats of local wildlife, the locations of archaeological sites, coastal regimes, etc. Students should expect to spend approximately 10 hours per week beyond regularly scheduled classes in a University computer laboratory. This course is offered as both ANT 420 and GEO 420.

Prerequisite: Upper-division course in ANT or BIO or GEO or MAR

SBC: TECH
4 credits

**ANT 444: Experiential Learning**

This course is designed for students who engage in a substantial, structured experiential learning activity in conjunction with another class. Experiential learning occurs when knowledge acquired through formal learning and past experience are applied to a "real-world" setting or problem to create new knowledge through a process of reflection, critical analysis, feedback and synthesis. Beyond-the-classroom experiences that support experiential learning may include: service learning, mentored research, field work, or an internship.

Prerequisite: WRT 102 or equivalent; permission of the instructor and approval of the EXP+ contract (http://sb.cc.stonybrook.edu/bulletin/current/policiesandregulations/degree_requirements/EXPplus.php)

SBC: EXP+
0 credit, S/U grading

**ANT 447: Readings in Anthropology**

Individual advanced readings on selected topics in anthropology. May be repeated up to a limit of 6 credits.

Prerequisite: Permission of the instructor
3 credits

**ANT 458: Speak Effectively Before an Audience**

A zero credit course that may be taken in conjunction with any ANP or ANT course that provides opportunity to achieve the learning outcomes of the Stony Brook Curriculum's SPK learning objective.

Pre- or corequisite: WRT 102 or equivalent; permission of the instructor

SBC: SPK
0 credit, S/U grading

**ANT 459: Write Effectively in Anthropology**

A zero credit course that may be taken in conjunction with any ANP or ANT course that provides opportunity to achieve the learning outcomes of the Stony Brook Curriculum's SPRTD learning objective.

Pre- or corequisite: ANT course, with permission of the instructor

A zero credit course that may be taken in conjunction with any ANP or ANT course that provides opportunity to achieve the learning outcomes of the Stony Brook Curriculum's SPK learning objective.

Pre- or corequisite: WRT 102 or equivalent; permission of the instructor

SBC: SPK
0 credit, S/U grading

**ANT 475: Undergraduate Teaching Practicum I**

Work with a faculty member as an assistant in one of the faculty member's regularly scheduled classes. The student is required to attend all the classes, do all the regularly assigned work and meet with the faculty
member at regularly scheduled times to discuss
the intellectual and pedagogical matters
relating to the course. Students may not serve
as teaching assistants in the same course twice.

Prerequisite: Permission of the instructor

SBC: EXP+

3 credits, S/U grading

ANT 476: Undergraduate Teaching Practicum II

Work with a faculty member as an assistant
in one of the faculty member's regularly
scheduled classes. The student is required
to attend all the classes, do all the regularly
assigned work, and meet with the faculty
member at regularly scheduled times to discuss
the intellectual and pedagogical matters
relating to the course. In ANT 476, students
assume greater responsibility in such areas as
leading discussions and analyzing results of
tests that have already been graded. Students
may not serve as teaching assistants in the
same course twice.

Prerequisite: Permission of the instructor

SBC: EXP+

3 credits, S/U grading

ANT 487: Independent Research in Anthropology

Independent research projects carried out by
upper-division students. May be repeated up to
a limit of six credits.

Prerequisite: Permission of the instructor

SBC: EXP+

0-6 credits

ANT 488: Internship

Participation in local, state, and national
public and private agencies and organizations.
Students are required to submit written
progress reports and a final written report on
their experiences to the faculty sponsor and the
department. May be repeated up to a limit of
12 credits.

Prerequisite: Permission of the instructor

SBC: EXP+

0-6 credits, S/U grading

ANT 495: Senior Honors Project in Anthropology

First course of a two-semester project for
anthropology majors who are candidates
for the degree with honors. Arranged in
consultation with the department through
the director of undergraduate studies, the
project involves independent readings or
research and the writing of a paper under the
close supervision of an appropriate faculty
member on a suitable topic selected by the

Prerequisite: Permission of the instructor

3 credits

ANT 496: Senior Honors Project in Anthropology

Second course of a two-semester project for
anthropology majors who are candidates
for the degree with honors. Arranged in
consultation with the department through
the director of undergraduate studies, the
project involves independent readings or
research and the writing of a paper under the
close supervision of an appropriate faculty
member on a suitable topic selected by the

Prerequisite: ANT 495

SBC: EXP+

3 credits