

Anthropology (ANT)

Chair: Diane M. Doran-Sheehy, Ward Melville Social and Behavioral Sciences Building N-533, (631) 632-9445

Director of M.A. Program: Katheryn C. Twiss, Ward Melville Social and Behavioral Sciences Building S-533, (631) 632-1539

Graduate Program Coordinator: Jean Moreau, Ward Melville Social and Behavioral Sciences Building S-501, (631) 632-7606

Degree awarded: M.A. in Anthropology

The Department of Anthropology, within the College of Arts and Sciences, offers a graduate program leading to the M.A. degree. In the M.A. program candidates may study toward a master's in anthropology with a concentration in archaeology, physical anthropology, or sociocultural anthropology. Admission and degree requirements are the same but the course of study differs.

Facilities and Research Opportunities

Research and teaching facilities are maintained for the study of dental structure and microwear, human and primate evolution, lithic technology, paleoethnobotany, remote sensing and geographic information systems (GIS), and zooarchaeology. The archaeology and physical anthropology laboratories contain state-of-the-art scanning and digitizing equipment and a variety of microscopes. The GIS Laboratory contains eight networked Pentium computers configured to run ArcGIS 9 software.

Teaching collections include extensive primate and hominin fossil cast collections as well as modern human skeletons; Near Eastern ceramics; stone tools from Africa, Europe, the Middle East and North America; and faunal assemblages from North America and Southwest Asia. In addition, the Institute for Long Island Archaeology (ILIA) maintains a large collection of library and archival materials relating to the history and archaeology of coastal New York.

For students interested in anthropological research in the New York/Long Island area, there is a research room containing an expanding collection of documentary material. The Institute for Long Island Archaeology performs cultural resource surveys and environmental impact statements for the area and provides equipment for survey, excavation, and data analysis.

Students may be invited to participate in ongoing archaeological, ethnographic, paleontological, or primatological research conducted by the faculty in Africa, East and Southeast Asia, Europe

and the Mediterranean, Madagascar, North America, and Southwest Asia (the Middle East).

M.A. in Anthropology

The M.A. program in Anthropology is designed for students who wish to pursue anthropological training for careers in education or for those whose undergraduate training did not prepare them for doctoral-level work in Anthropology. Full-time or part-time attendance is possible. Students are expected to choose their subfield (archaeology, physical anthropology, or social/cultural anthropology) and contact the person with whom they wish to study prior to application. However, admissions decisions are made by the admissions committee, not by individual faculty members. By the time they have completed 15 credits of graduate work, students are expected to request a guidance committee consisting of three faculty members, at least two of whom must be members of the Department of Anthropology, who will guide them through the preparation of a thesis proposal and the completion of the M.A. thesis.

Admission

In addition to the admission requirements of the Graduate School, the Department of Anthropology requires:

A. A bachelor's degree from an accredited college with a minimum grade point average of 3.0 (B) in all undergraduate coursework and 3.25 (3.0=B) in the major field of concentration;

B. Results of the Graduate Record Examination (GRE) General Test;

C. Test of English as a Foreign Language for international students with a minimum score of 550 (paper exam) or 220 (computer-based exam);

D. Acceptance by the Department of Anthropology and the Graduate School.

Faculty

Professors

Arens, William, *Dean of International Academic Programs*, Ph.D., 1970, University of Virginia: Social anthropology; conservation; Africa and the Mediterranean.

Doran-Sheehy, Diane M., *Chair*, Ph.D., 1989, Stony Brook University: Primate behavior and ecology; socioecology of African apes.

Gilmore, David, Ph.D., 1975, University of Pennsylvania: Complex societies; stratification; peasant culture; Europe; Mediterranean.

Grine, Frederick E., Ph.D., 1984, University of Witwatersrand, South Africa: Hominid evolution; functional morphology of the masticatory system; vertebrate paleontology; dental structure and comparative odontology.

Hicks, David, Ph.D., 1971, London; D.Phil., 1972, Oxford University: Oral literature, ritual and belief, mythology, kinship, politics, Southeast Asia, East Timor.

Leakey, Richard, E.F., Sc.D., 1998, Stony Brook University: Wildlife conservation; human evolution; climate change.

Martin, Lawrence B., *Dean of the Graduate School*, Ph.D., 1983, University of London, England: Primate evolution; thickness, development, and microstructure of dental enamel; neogene vertebrate paleontology.

Stone, Elizabeth C., Ph.D., 1979, University of Chicago: Old World archaeology; state formation; ancient economy and society; Near East; remote sensing and GIS.

Wright, Patricia C., Ph.D., 1985, City University of New York: Primate behavior and ecology; rain forest conservation; Madagascar.

Research Professor

Leakey, Meave E., Ph.D., 1968, University of North Wales: Human evolution; primate evolution; Africa.

Associate Professors

Bernstein, David J., Ph.D., 1988, University at Binghamton: New World archaeology; paleoecology; coastal societies; subsistence studies; cultural resource management.

Koenig, Andreas, Ph.D., 1992, University of Göttingen, Germany: Primate behavioral ecology; social evolution; community ecology; Asia.

Shea, John J., Ph.D., 1991, Harvard University: Old World Paleolithic archaeology; lithic analysis; Near East; Europe; Africa.

Research Associate Professor

Borries, Carola, Ph.D., 1989, University of Göttingen, Germany: Primate reproductive strategies; behavioral ecology; social structure; Asia.

Assistant Professors

Hildebrand, Elisabeth, Ph.D., 2003, Washington University (St. Louis): Archaeology; early farming; Africa; paleoethnobotany.

Rossie, James, Ph.D., 2003, Yale University: Primate evolution; fossil catarrhines; East Africa.

Twiss, Kathryn C., Ph.D., 2003, University of California, Berkeley: Old World archaeology; zooarchaeology; transition to agriculture; food; Near East.

Research Assistant Professor

Leakey, Louise, Ph.D., 2001, University College London: Mammalian evolution, climate change, Africa.

1) Recipient of the State University Chancellor's Award for Excellence in Scholarship and Creative Activities, 2005; Recipient of the President's Award for Excellence in Scholarship and Creative Activities, 2005

**Degree Requirements
Requirements for the M.A. in
Anthropology with Concentrations
in Archaeology, Physical
Anthropology, and Social/Cultural
Anthropology**

In addition to the requirements of the Graduate School, the following are required:

A. Completion of a minimum of 30 graduate credits, maintaining a 3.0 average;

B. A course of study planned and carried out with the approval of the student's M.A. guidance committee (this may require examinations, library research, laboratory study, and/or fieldwork as the basis of the M.A. thesis, which must be accepted by a committee appointed by the program—no final defense is required);

C. Minimum residence of one year.

The requirements for the three tracks in Anthropology differ, but students may take courses in the other subdisciplines as electives. The requirements are as follows:

Archaeology	Credits
1. ANT 515 Theory and Method in Archaeology	4
2. ANT 527 Field Methods and Techniques in Archaeology*	6
3. Graduate Statistics Course	

(Approved by Committee)	3
4. ANT 599 M.A. Thesis Research	6
5. Electives chosen from among ANT 510, 511, 512, 513, 514, 516, 517, 518, 519, 526, and other courses offered in Anthropology, Ecology and Evolution, History, Marine Sciences, or other programs chosen with the approval of the student's guidance committee.	10
Total	30

* In some instances equivalent courses may be accepted if they have been previously approved by the student's guidance committee.

Physical Anthropology	Credits
1. ANT 564 Primate Evolution	4
2. ANT 565 Human Evolution	4
3. ANT 567 Primate Behavior and Ecology	4
4. BEE 552 Biometry	4
5. ANT 599 M.A. Thesis Research	6
6. Electives chosen from among other courses in Anatomy, Anthropology, Ecology and Evolution, or other programs chosen with approval of the student's guidance committee.	8
Total	30

Social/Cultural Anthropology	Credits
1. ANT 520 Principles of Social and Cultural Anthropology	4
2. ANT 540 Readings in Ethnography and Ethnology	3
3. ANT 599 M.A. Thesis Research	6
4. Electives chosen from among ANT 500, 501, 509, 561, 602, 620, 640, and other courses offered in Anthropology, Psychology, Sociology, or other programs chosen with the approval of the student's guidance committee.	17
Total	30

Courses

ANT 500 Social and Cultural Anthropology

Study of the forms of social organizations: family, kinship, economic, political, and religious, as found among simple and complex societies. A basic graduate-level course designed for students whose previous background is in other fields.

*Fall, 3 credits, ABCF grading
May be repeated for credit*

ANT 501 Development of Anthropological Theory

Survey of the development of anthropological

theory from the 19th century to the present. This course is offered as both ANT 501 and DPA 501.

Spring, 4 credits, ABCF grading

ANT 502 Social Ecology

This course explores theoretical and methodological issues in the study of human social activity and its relationship to ecological systems and the environment. Readings include both classic studies as well as contemporary research, with particular emphasis placed on the various dimensions and scales of social organization and activity, and on the role of cultural, religious, and political institutions in shaping ecological relationship as well as economic behavior.

3 credits, ABCF grading

ANT 503 Social Organization

This course explores theoretical models and empirical observations of human social organization in a comparative perspective, including such topics as demography and behavioral ecology, kinship and marriage, reciprocal exchange, and political dimensions of resource mobilization in small-scale as well as complex societies. Organized around different layers of human sociality, the course examines social dependence among humans and nonhuman primates, evolutionary explanations for human mating strategies, cooperation in child-rearing, paradigms of descent and affinity, and the dynamics of hierarchy and alliance in egalitarian cultures as well as stratified states.

3 credits, ABCF grading

ANT 509 Seminar in European Ethnography

Investigation and discussion of selected topics and problems concerning European societies and cultures. The perspectives of culture history and current fieldwork are employed. This course is offered as both ANT 509 and DPA 509.

*Fall, 3 credits, S/U grading
May be repeated for credit*

ANT 511 Paleolithic Archaeology

A survey of the archaeological record of foraging peoples in Africa, Europe, and Asia prior to the emergence of agriculture. The course emphasizes particular problems including the relationship between behavioral and biological change, different adaptive strategies in temperate and tropical zones, the origins of modern humans, and the emergence of complex hunter-gatherer societies. This course is offered as both ANT 511 and DPA 511.

*Prerequisite: Any other archaeology course
Fall, 4 credits, ABCF grading*

ANT 512 Comparative Civilizations

A comparative study of the processes of sociocultural evolution from the beginnings of sedentary life to the achievement of early civilization in the Near East, Egypt, the Indus Valley, China, Mesoamerica, and the Andean area. The seminar covers such topics as urbanization, demography, irrigation, craft specialization, militarism, and trade and exchange. This course is offered as both ANT 512 and DPA 512.

Prerequisite: Graduate standing or

permission of instructor
 Spring, 4 credits, ABCF grading

ANT 513 Origins of Agriculture

This course will trace the history of anthropological thought on the origins of agriculture and will assess the evidence from the Old and New Worlds for this economic revolution. The course will not only explore areas where early agriculture is evidenced, but will also contrast these areas with those where agriculture was a later development. Emphasis will be on the environmental, technological, biological, social, and cultural processes associated with the "Neolithic Revolution." This course is offered as both ANT 513 and DPA 513.

Fall, 4 credits, ABCF grading

ANT 515 Theory and Method in Archaeology

Theoretical and methodological approaches employed in archaeology. The goals of the course are to provide an historical perspective on the growth of theory and method in archaeology and to examine in detail some of the pertinent research topics being studied today. This course is offered as both ANT 515 and DPA 515.

Fall, 4 credits, ABCF grading

ANT 516 Research Design in Archaeology

An examination of the ways in which archaeologists develop successful research strategies for arriving at answers to key questions in the field. Students will analyze grant proposals that received funding from the major sources of funding for archaeology before developing research proposals of their own. The aim of the course is to provide the class with the skills needed to plan their future research and compete successfully for funding both for their thesis research and in their future careers. This course is offered as both ANT 516 and DPA 516.

Fall, alternate years, 4 credits,
 ABCF grading

ANT 517 Primitive Technology

An introduction to the technology of hunter-gatherers. The course examines how archaeologists use both ethnographic and experimentation to shed light on prehistoric human technological adaptations. Techniques for making and using primitive tools are practiced in weekly laboratory sessions.

Fall, alternate years, 4 credits,
 ABCF grading

May be repeated for credit

ANT 518 Lithic Technology

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 stone tools from simulated archaeological sites.

Spring, alternate years, 4 credits,
 ABCF grading

ANT 519 Zooarchaeology

An introduction to the study of animal bones from archaeological sites. Special emphasis is on identification of fragmented bone, identifi-

cation of bone surface modification, calculation of indexes of abundance, and measurement and metrical analysis of mammal bone. Computer analysis is stressed, and the class seeks to synthesize traditional zooarchaeology and actualistic studies. This course is offered as both ANT 519 and DPA 519.

Fall, odd years, 4 credits, ABCF grading

ANT 520 Principles of Social and Cultural Anthropology

Concepts and principles of social and cultural anthropology; historical background, structure and function, social processes, transactions, culture, communication, continuity, and other change; topics and problems of contemporary interest. Some ethnographic monographs are discussed in terms of their relevance to the general concepts and principles treated in the seminar. This course is offered as both ANT 520 and DPA 520.

Fall, 4 credits, ABCF grading

ANT 526 The Use of Remote Sensing and GIS in Environmental Analysis

An introduction to the use of aerial and satellite imagery in environmental analysis and the manipulation of geographic data sets of all types using Geographic Information Systems. This course is designed to teach students in archaeology, physical anthropology, and related disciplines, how satellite imagery combined with various maps can be manipulated using GIS software to perform powerful geographic analysis. Although students are eventually likely to use these tools in many different parts of the world, this course focuses on Long Island as a research area, and 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. This course presumes computer literacy and familiarity with database management. This course is offered as both ANT 526 and DPA 526 and or HPH 658.

Spring, 3 credits, ABCF grading

ANT 527 Field Methods and Techniques in Archaeology

The course will be held during the summer only. It consists of field and laboratory work on an aspect of Long Island's archaeological heritage. Students' time is divided between surveying and excavation in the field and artifact analysis in the laboratory. Such techniques as map and air photo reading, survey, instruments, stratigraphy, conservation, typology construction, etc. are taught. Students are exposed to the full range of excavation, survey, and laboratory methods and techniques. This course is offered as both ANT 527 and DPA 527.

Prerequisite: Graduate standing or permission of instructor

Summer, even years, 3-9 credits,
 ABCF grading

ANT 540 Readings in Ethnography and Ethnology

A survey of the more important and better documented cultures and societies of selected world ethnographic areas and the implications of data from these for current approaches and problems in ethnology. This course is offered

as both ANT 540 and DPA 540.

Spring, 3 credits, ABCF grading
 May be repeated for credit

ANT 550 Theory and Methodology in Primatology

Comprehensive overview of the theory and methodology used in the study of primate behavioral ecology. Includes ecological field methods, behavioral observations, analytical techniques, nonparametric statistics as well as planning, presenting, and reviewing research. Offered as both ANT 550 and DPA 550.

Fall, even years, 3 credits, ABCF grading

ANT 559 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.

Fall, alternate years, 3 credits,
 ABCF grading

ANT 560 Ancient Mesopotamia

An examination of the cultural history of Mesopotamia based on the archaeological, textual, and art historical record. Focusing on the fourth through second millennia, this course investigates both the long-term developmental process of this civilization and ways to understand its settlement systems, urban structure, social and political organization, economic structure, and the role played by religion.

Fall, alternate years, 4 credits,
 ABCF grading

ANT 561 Peasant Societies and Cultures

The concept of peasantry is examined from political, religious, and social class viewpoints as well as from the more traditional economic view. These agricultural peoples, who are essentially preliterate and preindustrial, are described and analyzed especially in relation to the national societies of which they form a part. This course is offered as both ANT 561 and DPA 561.

Spring, 3 credits, ABCF grading

ANT 562 Long Island Archaeology

Life on Long Island and the surrounding area from its first settlement by Native Americans 12,000 years ago until the end of the 19th century. Trends and changes in human behavior are studied in the context of environmental and cultural processes affecting all of northeastern North America.

Spring, 3 credits, ABCF grading

ANT 564 Primate Evolution

The taxonomic relationships and evolutionary history of primates as documented by their fossil record and structural and chemical evidence. Emphasis on primates prior to the origin of the human lineage. This course is offered as ANT 564, DPA 564, and HBA 564.

Spring, even years, 4 credits, ABCF grading

ANT 565 Human Evolution

A survey of the fossil record of hominid evolution through the Pliocene and Pleistocene

with emphasis on the morphological structure and function of locomotor, masticatory, and neural systems. Includes utilization of comparative anatomical material and extensive cast and slide collections. This course is offered as ANT 565, DPA 565, and HBA 565.
Fall, even years, 4 credits, ABCf grading

ANT 567 Primate Behavior and Ecology

A comparative approach to the behavior and ecology of living lemurs, monkeys, and apes. Emphasis is placed on sociobiological theory; life history strategies; morphological adaptations; comparisons of primate communities in Asia, Africa, Madagascar, and South America; and primate conservation. This course is offered as both ANT 567 and DPA 567.

Fall, odd years, 4 credits, ABCF grading

ANT 568 Hunters and Gatherers

The course focuses on the relationship between ecology and adaptation to explore the cross-cultural diversity of hunter/gatherers. The first part of the course looks at a number of key theoretic issues and debates that surround the study of hunter/gatherers. Once this foundation is laid, students learn about modern and historic hunter/gatherers from all the major geographic regions of the world. This overview draws on studies from behavioral ecology, ethnoarchaeology, and cultural anthropology. The focus of the course is both to explore hunter/gatherer variation in relationship to the environment, and to give students an appreciation of the ways in which hunter/gatherers have been historically documented. The course is designed to be applicable to archaeologists, anthropologists, and to those in other disciplines who make inferences about past ways of life.

Spring, 3-4 credits, ABCF grading

ANT 583 Human Demography

The study of human demography has had a long-standing focus in anthropology, archaeology, economics, and sociology since the distribution and density of people fundamentally shapes many other aspects of the human condition. Human Demography gives students an overview of population dynamics both as they change through time and differ across cultures. The course starts with an outline of the history of population studies. Following this introduction, the three major components of population change—fertility, mortality, and migration—are explored in depth. We then survey the seminal transitions in human demographic history from hunting and gathering to domestication and through modern postindustrial times. Drawing from the ethnographic, human ecology, demographic, and archaeological literature, students read and discuss human demography from a variety of perspectives. The course includes some simple computations and labs.

Spring, 3-4 credits, ABCF grading

ANT 585 Prehistoric Peoples of the Americas

Life in the Americas from the first settlement at the end of the 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 North Americans,



hunting-gathering lifeways, plant and animal domestication, the origins of village life, and state-level societies.

Spring, odd years, 3 credits, ABCF grading

ANT 599 M.A. Thesis Research

Fall, spring, and summer, 0-6 credits, S/U grading

May be repeated for credit

ANT 602 Research Seminar in Anthropological Theory

This course is offered as both ANT 602 and DPA 602.

Fall and spring, 0-12 credits, S/U grading

May be repeated for credit

ANT 610 Individual Research

Research supervised by faculty. Students must have permission of instructor and enroll in appropriate section. This course is offered as both ANT 610 and DPA 610.

Fall and spring, 1-12 credits, S/U grading

May be repeated for credit

ANT 620 Research Seminar in Topical Problems

This course is offered as both ANT 620 and DPA 620.

Fall and spring, 3 credits, S/U grading

May be repeated for credit

ANT 630 Research Seminar in Physical Anthropology

This course is offered as both ANT 630 and DPA 630.

Fall and spring, 3 credits, S/U grading

May be repeated for credit

ANT 640 Research Seminar in Ethnography and Ethnology

This course is offered as both ANT 640 and DPA 640.

Fall and spring, 1-3 credits, S/U grading

May be repeated for credit

ANT 650 Research Seminar in Archaeology

4 credits, S/U grading

ANT 680 Special Seminar

Selected topics in cultural and social anthropology. Topics reflect current interests of faculty and graduate students. This course is offered as both ANT 680 and DPA 680.

Fall and spring, 1-3 credits, S/U grading

ANT 800 Summer Research

This course is offered as both ANT 800 and DPA 800.

S/U grading

May be repeated