899. Master's Thesis Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

912. Seminar
Fall, Winter, Spring. 1 credit.

926. Comparative Nutrition-Lipids and Carbohydrates
Winter of odd-numbered years. 4(4-0)
BCH 452 and a previous course on principles of nutrition. Interdepartmental with and administered by Human Nutrition and Foods. Metabolism of lipids and carbohydrates as influenced by nutrition in mammals. Emphasis on normal and abnormal physiological states such as obesity, ketosis and diabetes.

927. Comparative Nutrition-Protein Metabolism and Development Biology
Winter of even-numbered years. 4(4-0)

928. Comparative Nutrition-Minerals
Spring of even-numbered years. 3 credits. BCH 452, PSL 862 or concurrently. Interdepartmental with Human Nutrition and Foods. Forms and location in body, metabolic roles, deficiency and toxicity signs, interrelationships, requirements and biological availability of sources.

929. Comparative Nutrition-Vitamins
Spring of odd-numbered years. 3(3-0)
BCH 452 and a previous course on principles of nutrition. Interdepartmental with Human Nutrition and Foods. Chemical and physical properties, standards of activity, occurrence, metabolic roles, antitoxins, deficiency and toxicity signs, requirements and factors affecting requirements.

963. Genetics of Breed Improvement
Winter of odd-numbered years. 3(3-0)

964. Breeding Systems and Plans
Spring of odd-numbered years. 3(3-0)
A H 963. Biometric relation between related animals. Role of selection in changing populations. The effects of different mating systems.

999. Doctoral Dissertation Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

Dairy Science

850. Topics in Dairy Science
Fall, Winter, Spring. Variable credit. May retrench for credit. Approval of department. Topics from breeding, management, nutrition, or physiology, changing from term to term to include recent technical advances.

899. Master's Thesis Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

925. Advanced Animal Nutrition
Fall of even-numbered years. 4(4-0)
BCH 452, PSL 801 or approval of department. Microbiology, physiology and biochemistry of nutrient digestion and absorption of rumen fermentation products.

945. Physiology of Reproduction
Winter of odd-numbered years. 4(4-0)
DHY 443 or PSL 445 or approval of department. Interdepartmental with the Department of Physiology. Chemistry and biosynthesis of reproductive hormones. Gestational, hypothalamic and pituitary development of reproductive potential. Ovulation, fertilization, implantation and placentation will be studied. Relationships of conceptus, uterus and corpus luteum. Parturition.

999. Doctoral Dissertation Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

Poultry Science

800. Advanced Poultry-Special Problems
Fall, Winter, Spring, Summer. Variable credit. Approval of department. Studies in any of the following: avian genetics, management, nutrition, physiology, other areas of poultry science.

899. Master's Thesis Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

999. Doctoral Dissertation Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

ANTHROPOLOGY ANP

College of Human Medicine
College of Social Science

100. Human Evolution
Fall, Winter, Spring, Summer. 4(3-1)
Scientific and archaeological evidence on human cultural and biological origins; anticipation of culture in other animals; place of man among the primates; processes of organic evolution; modern human genetic variability; culture as an adaptive mechanism; cultural development to the dawn of civilization.

171. Introduction to Sociocultural Anthropology (S)
Fall, Winter, Spring, Summer. 4(3-1)
Comparison of ways of life among primitive, peasant and civilized peoples. Implications of these styles of life for understanding of human behavior in general and exotic cultures in particular.

221. Introduction to Social and Cultural Analysis
Fall, Spring, 4(3-1) ANP 171.
Basic theoretical framework of socio-cultural analysis: structural functionalism, evolutionism, and cultural ecology.

250. Culture, Environment and Adaptation (S)
Fall, 4(3-1)
Culture as an adaptive process—as developed in the millions of years of human history and still influencing environmental quality, population control, and allocation of resources in primitive and modern societies.

1DC. Introduction to Contemporary China
For course description, see Interdisciplinary Courses.

1DC. Contemporary Japan
For course description, see Interdisciplinary Courses.

262. Status of Women in Culture and Society: A Comparative View
Fall. 3(3-0)
Comparative analysis of the status of women emphasizing non-Western cultures and societies. Economic and domestic division of labor between the sexes as a factor underlying division of status, power and authority.

264. Great Discoveries in Archaeology
Winter. 4(4-0)
Great discoveries in archaeology, which have captured the public's imagination and shaped the discipline, from Olduvai Gorge to King Tut's tomb.

265. Vanished Peoples and Lost Civilizations
Fall, Spring. 4(4-0)
Concepts of cultural evolution and origins of civilization as found in popular literature ranging from Atlantis to Chichen Itza. The question "What makes friends and what makes enemies?" is examined from the standpoint of cultural anthropology. Violence-prone cultures and peaceful ones are compared for factors influencing human aggression.

275. The Anthropology of Asia
Fall. 4(4-0)
Several cultural complexes and culture types—from hunting and gathering through complex civilization—of East, Southeast and South Asia. The cultures and nature of their development will be examined. Past and present significance of cultural stability and change will be seen in a comparative framework.

281. The Africans and Their Cultures
Spring. 4(4-0)
Racial and cultural problems confronting the African peoples.

285. Anthropological Perspectives on Global Interdependence
Spring. 4(2-2) ANP 171.
Intertwined nature of cultural traditions in the modern world. Consideration of how people of developing nations respond to the dominant cultural forces of industrialized nations.
Descriptions – Anthropology
of Courses

IDC. Contemporary South Asia
For course description, see Interdisciplinary Courses.

343. Introduction to Physical Anthropology
Fall. 4(3-2)
Problems, data and techniques associated with the main topical areas of physical anthropology: human genetics, hominid evolution, primate behavior, human osteology and human diversity. Field trips may be required.

350. Peasant Society
Fall. 4(3-1) ANP 171.
Anthropological study of peasant. Comparative examination of the rural societies and cultures of Asia, Europe, and Latin America.

356. Culture, Health and Illness
Spring. 4(3-1) ANP 171.
Anthropological study of health behavior. Comparative view of primitive, folk and scientific medical systems and their effect on the individual and the community in the illness situation.

360. Methods of Sociocultural Anthropology
Winter. 4(4-0) ANP 171, one upper division sociocultural course, approval of department.
Field research and analysis methods and techniques in anthropology; development of research problems and questions; alternate models of validation; ethics of research and presentation of findings.

381. Anthropology and Education
Winter. 4(3-1) ANP 171 or other social science. For Education and Anthropology majors.
Maritimation and socialization in various societies of Asia, Africa, and Latin America. This will be compared with educational institutions in the U.S. and Europe. It is expected to be a contribution to the broader cross-cultural investigation of the teaching-learning process.

388. The Anthropology of Social Movements
Winter. 4(2-2) ANP 171 or approval of department.
Analysis of how different cultures around the world organize and create (or impede) change on the basis of class, religion, race, ethnicity, language, and territory.

400H. Honors Work
Fall, Winter, Spring, Summer. 1 to 16 credits. May reenroll for a maximum of 20 credits. Approval of department.

406. Environmental History
Winter. 4(4-0) Juniors. Interdepartmental with and administered by the Department of History.
History of the impact of human societies on the natural environment. Effect of human induced environmental change on the history of various peoples. Global, thematic approach with emphasis on Europe and America since the 16th century.

407. Interactions of Culture and Nutrition
Spring. 3(3-0) Juniors, HNF 102 or ANP 171 or approval of instructor. Interdepartmental with and administered by Human Nutrition and Foods.
World and U.S. food behavior focusing on conflicts between behavioral and nutritional needs at various stages of life cycle. Anthropological, psychological and social influences affecting food behavior are analyzed.

411. Studies in the Anthropology of Asia
Fall, Winter, Spring. 4(4-0) May reenroll for credit for Part II in an area and/or for another area. ANP 171; ANP 275 or approval of department.
Separate courses in Asian cultures: China; Japan; Southeast Asia; South Asia; Central Asia. A two-part course sequence is usually given. Part I: Ethnographic survey. Part II: Sub-areas, special problems and approaches.

415. Studies in the Anthropology of Africa
Winter, Spring. 4(4-0) May reenroll for credit for Part II in an area and/or for another area. ANP 171; ANP 281 or approval of department.
Separate courses in African cultures: West Africa; Central Africa; East Africa. A two-part course sequence is usually given. Part I: Ethnographic survey. Part II: Sub-areas, special problems and approaches.

419. Studies in the Anthropology of the New World
Fall, Winter, Spring. 4(4-0) May reenroll for credit for Part II in an area and/or for another area. ANP 171 or approval of department.
Separate courses in New World cultures: Arctic, North America; Middle America; South America. A two-part course sequence is usually given. Part I: Ethnographic survey. Part II: Sub-areas, special problems and approaches.

426. Humanistic Perspectives on Global Diversity and Interdependence
Fall. 4(4-0) Juniors or approval of department. Interdepartmental with and administered by the Department of History.
Anthropological and historical analysis of global diversity and interdependence since the 16th century.

427. Contemporary Issues in Global Interdependence and Change
Winter. 4(4-0) HST 426 or approval of department. Interdepartmental with and administered by the Department of History.
Interdependence of the modern world since 1945. Focus on such issues as the impact of the West on the non-Western world; industrialization, modernization, population and natural resources.

428. Project in Global Studies
Spring. 4(4-0) HST 426 or HST 427 or approval of instructor. Interdepartmental with and administered by the Department of History.
Supervised project to test students' competence in applying the cultural and historical diversity/interdependence frameworks introduced in the prerequisite courses.

444. Human Diversity
Winter of even-numbered years. 3(3-0)
ANP 100.
Origins and evolutionary meaning of human physical variability. Racial variation as an adaptive phenomenon. Roles of genetic and environmental influences in creating the phenotype.

445. Fossil Hominids
Winter of odd numbered years. 3(3-0)
ANP 100.
Fossil evidence and theory pertaining to human evolution during the last four million years.

446. Primatology
Spring. 3(3-0) ANP 100.
The order primates: evolution, taxonomy, biology, and behavior. Primate learning, cultural, sexual, maternal, and aggressive behavior; and social organization.

450. Area Courses in Prehistory
Full, Winter. 4(4-0) May reenroll for a maximum of 16 credits when other areas are offered. ANP 100 or ANP 283.
Archaeology of different areas with emphasis on prehistoric adaptations to natural and social environments. Settlement patterns, subsistence, technology, and style will be considered. Areas covered will vary with staff and student interest.

455. Theory in Historical Archaeology
Winter of even-numbered years. 4(4-0) ANP 263 or approval of department.
Traces the history of the development of theory and method in historical archaeology. Historic site interpretation is also considered.

456. The Practice of Historical Archaeology
Spring of even-numbered years. 4(4-0) ANP 263 or approval of department.
Course content includes the various methods of artifact typology. Artifact classes, including ceramics, trade goods, firearms, and architecture. Coarse examined for purposes of identifying attributes useful in the archaeological and temporal placement of historic sites.

457. Public Archaeology
Fall of even-numbered years. 3(3-0) ANP 100; at least one 400-level archaeology course.
History of public archaeology; legislation and review procedures at State and Federal level; contract requirements for reports and field work; roles of amateurs, professional certification and private contractors.

463. Social Anthropology
Fall. 4(4-0) ANP 171 or approval of department.
Organization and structure of non-Western societies, ranging from simpler tribal and peasant societies to complex civilizations. Social institutions, such as those based upon kinship, sex, age and status, analyzed for specific groups.

464. Religion and Culture
Winter. 4(4-0) ANP 171 or SOC 241 or approval of department.
Religious beliefs and magical practices of primitive peoples and functions of magic and folklore in contemporary society. Religion as an institution in society.
465. Symbolic Anthropology
Winter, 4-4(0) ANP 221 or ANP 463 or ANP 464, or approval of department.
Course explains how human perception and communication are guided by systems and meanings and relates systems of thought to systems of action, Examples from western and non-western cultures.

467. Language and Culture
Fall, Spring, 4-4(0) Approval of department. Interdepartmental with the Department of English.
A survey exploring the interconnectedness of language and culture. Special areas to be emphasized include: Child Language Learning, Linguistic and Cultural Contact Phenomena; 'Specialized' Languages, such as Cant, Argot, Trade Jargon, Lingua Franca; 'Hybridization' and 'Substratum'; Language and Cultural Change; a brief examination of Theories of Origins and of the Sapir-Whorf Hypothesis.

468. Systems of Rank
Spring of even-numbered years, 4-4(0) ANP 221 or ANP 463 or approval of department.
A comparative study of systems of rank such as age grading, sexual, spatial, caste, ethnicity, and class systems. The course emphasizes both symbolic and transactional analysis of rank.

469. Cultural Areas of the World
Winter, Summer, 4-4(0) May receive credit when new area is given. ANP 100 or ANP 221 or SOC 241 or approval of department.
Social character of people, social organization, culture of area in relationship to social heritage, local conditions and world affairs. Areas emphasized will vary with staff and student's interest: Africa, American Indian, Latin America, Near East, Northeast Asia, Pacific, and Southeast Asia.

472. Anthropology of Legal Systems
Spring of odd-numbered years, 4-4(0) ANP 221 or ANP 463 or approval of department.
A comparative examination of legal ideas in selected non-Western preindustrial and peasant societies; parallels and contrasts are drawn with key legal ideas of modern Western systems.

473. Culture and Personality
Fall, Spring, 4-4(0) One 300 level anthropology or sociological course. Interdepartmental with the Department of Sociology.
Human nature in evolutionary and cross-cultural perspective. Special attention to relating theories of anthropology and psychology to methods of studying personality in non-Western societies.

474. Culture and Economic Behavior
Winter, 4-4(0) ANP 221 or ANP 463 or approval of department.
Economic systems of changing cultures in Asia, Africa and Latin America. The cultural matrix of economic transactions and relations of economic and other social and cultural institutions seen in a comparative framework. Emphasis is placed on traditional agricultural or tribal communities.

475. Political Anthropology
Spring of odd-numbered years, 4-4(0) ANP 221 or ANP 463 or approval of department.
Political systems of changing cultures in Asia, Africa and Latin America. Relation between political and other social institutions and analysis of the organization of conflict in non-Western societies. The relation of tribal and peasant politics to rational politics in development countries seen in a comparative framework.

477. Urban Anthropology
Winter, 3-4(0) Juniors.
Applies anthropological concepts to urban issues. The cross-cultural perspective includes the study of American culture and cities. Topics include ideology, social organization, power, proxemics, urbanization processes and urban reform.

479. Anthropology Capstone Course
Spring, 4-4(0) Senior Anthropology majors.
Seminar on the integration of the subdivisions of anthropology and its distinctions from other approaches in the social sciences; perspectives on future directions of anthropological inquiry and options for careers.

481. Cross-Cultural Relations in the Modern World
Winter of even-numbered years, 4-4(0) ANP 473.
Relationship of native peoples to world-wide forces and reactions of native peoples to world struggle for power. Problems involved in administration of programs for non-Western societies.

482. American Folk Medicine
Winter, 3-4(0) Juniors or approval of department.
Traditional practices of health maintenance and healing in American subcultures. Health-related folklore and practices include taboo, religious healing, witchcraft and herbal medicine.

485. Methods of Archaeological Research
Spring, 4-3(1) ANP 450 or approval of department.
Methods of doing anthropological research through archaeology. Problem formation, hypothesis development, testing; principles and procedures of data collection and processing, preliminary data processing and preliminary analysis; preparation for field archaeology.

486. Practicum in Field Archaeology
Summer, 2 to 12 credits. May reenroll for a maximum of 20 credits. Approval of department.
Application of methods and techniques of field archaeological research using actual sites and in the context of participation in a research program. Small groups work closely with staff in the execution of research designs.

489. Topics in Anthropology
Fall, Winter, Spring, Summer, 2 to 6 credits. May reenroll for a maximum of 20 credits when a different topic is given. Approval of department.
Experimental courses and courses taught by visiting scholars.

490. Topics in Medical Anthropology
Fall, Winter, Spring, Summer, 2 to 6 credits. May reenroll for a maximum of 16 credits. Approval of department.
Western and non-Western health care and medical systems, relationships between cultural systems and treatment of illness, cross-cultural analysis of health maintenance and medical delivery.

491. Topics in Anthropology
Fall, Winter, Spring, Summer, 2 to 6 credits. May reenroll for a maximum of 15 credits. Approval of department.
Written approval of instructor and department.

493. Topic in Anthropology
Fall, Winter, Spring, Summer, 2 to 6 credits. May reenroll for a maximum of 15 credits. Approval of department.

495. Topics in Medical Anthropology
Fall, Winter, Spring, 2 to 6 credits. May reenroll for a maximum of 16 credits. Approval of department.

497. Independent Study
Fall, Winter, Spring, Summer, 2 to 6 credits. May reenroll for a maximum of 15 credits. Written approval of instructor and department.
Study of a selected topic under the guidance of a faculty advisor in the area of specialty, including field work.

480. Core Seminar in Ethnographic Analysis I
Fall, 4-4(0) Approval of department.
Develops professional competence in the analytical assessment of monographic studies in social anthropology and examines a selected range of analytical issues in relation to their ethnographic contexts.

482. Core Seminar in Ethnographic Analysis II
Winter, 4-4(0) ANP 801.
Continuation of ANP 801.

483. Introduction to Paleoanthropology I
Winter, 4-4(0) Approval of department.
Exploration of evolutionary theory followed by an examination of data and modes of analysis pertinent to the study of hominid evolution and the development of culture through the Middle Pleistocene.

484. Introduction to Paleoanthropology II
Spring, 4-4(0) ANP 863.
Exploration of hominid evolution and cultural development from the Middle Pleistocene through the Early Holocene. Emphasis on selected issues illustrating the ways in which paleoanthropologists solve problems.

485. History of Anthropological Theory
Fall, 3-3(0) ANP 802, ANP 804 or approval of department.
A review of the various schools of thought, important personalities, and principal concepts that have contributed to the development of anthropological theory.

487. Anthropological Theorists
Winter, 4-4(0) May receive credit with approval of department. Approval of department.
Review of current theoretical problems in social and cultural anthropology.

489. Kinship Studies
Winter of odd-numbered years, 4-4(0) Approval of department.
The course will raise the question of what kinship is and why it has been such a central topic in anthropology. Various controversies and theoretical trends will be presented and analyzed.

491. Linguistic Anthropology
Winter, 3-3(2) Approval of department.
The nature of language; techniques for the description and comparison of languages; linguistics as an anthropological tool; language and culture.

493. Anthropological Topics in Prehistory
Spring, 4-4(0) May reenroll for a maximum of 12 credits when other problems are offered. Approval of department.
Relation of anthropological topics to the other fields of prehistory, the nature and function of language; language and culture.
835. **Human Osteology and Osteometry**
   - Spring of even-numbered years. 3(3-4)
   - Approval of department.
   - Identification of human bones and fragments; aging, sexing and determining the race of skeletal remains; measuring techniques for cranial and postcranial remains; the more common forms of paleopathology.

1DC. **Sub-Saharan Africa Seminar**
   - For course description, see Interdisciplinary Courses.

850. **Archaeological Methods and Techniques**
   - Winter. 4(4-0) Approval of department.
   - Seminar outlining archaeological methods and the role of technique in the strategy of archaeology. Techniques and problems of information retrieval will be emphasized.

856. **Methodology of Anthropological Research**
   - Winter. 1 to 2 credits. Approval of department.
   - Seminar in problems of anthropological investigation considered in the framework of history and philosophy of science. Relevance of various field techniques, methods of data gathering and data handling, and strategies of analysis for various problems are treated.

865. **Environment, Technology, and Culture**
   - Winter of even-numbered years. 4(4-0)
   - Approval of department.
   - Cultural ecology, study of the relation of man and his physical environment, the role of technology in mediating between the two. Comparative analysis of the interdependence of social organization, technology and environment. Case histories of cultural and social change arising from technological innovations.

870. **Applied Anthropology**
   - Spring of odd-numbered years. 4(4-0)
   - Approval of department.
   - Theoretical and methodological problems involved in planned social change. Course will focus on field experience in the local community. Designed mainly for graduate students having professional interest in the application of social change.

872. **Seminar in Special Subject Fields**
   - Fall, Winter, Spring, Summer. 2 to 6 credits. May recertify for a maximum of 24 credits when new fields are offered. Approval of department.
   - Special fields of study will include any area of anthropology selected.

875. **Individual Research Projects**
   - Fall, Winter, Spring, Summer. 1 to 2 credits. May recertify for a maximum of 24 credits with approval of department. Approval of department.

880. **Individual Readings**
   - Fall, Winter, Spring, Summer. 1 to 12 credits. May recertify for a maximum of 24 credits with approval of department. Approval of department.

899. **Master's Thesis Research**
   - Fall, Winter, Spring, Summer. Variable credit. Approval of department.

999. **Doctoral Dissertation Research**
   - Fall, Winter, Spring, Summer. Variable credit. Approval of department.

350. **Women in Modern Art**
   - Fall. 3(3-0) H A 208 recommended.
   - Contributions of selected European and American women artists and architects active since the late nineteenth century; analysis of their oeuvres and their changing relationships to mainstream artistic/critical developments.

355. **History of Photography**
   - Spring. 3(3-0) H A 208 or approval of department.
   - Evolution of the techniques and aesthetics of photography, and their interrelationship. Appreciation of contemporary trends, sources, and artists.

406. **Ancient Painting**
   - Spring of odd-numbered years. 4(4-0)
   - H A 206 or approval of department.
   - Ancient Greek and Roman painting, including Minoan Crete. Special emphasis is placed on Archaic and Classical Greek painting on pottery and on Roman wall painting from Pompeii and elsewhere.

407. **Ancient Sculpture**
   - Fall of odd-numbered years. 4(4-0)
   - H A 206 or approval of department.
   - The sculpture of Ancient Greece and Rome, from the Bronze Age through Early Christian times.

408. **Ancient Architecture**
   - Winter of even-numbered years. 4(4-0)
   - H A 206 or approval of department.
   - The architecture of Ancient Greece and Rome, from Mycenaean times to the 6th century A.D., with special emphasis on the religious architecture of Classical Greece and Imperial Rome.

410. **Early Christian and Byzantine Art**
   - Fall. 4(4-0) H A 206 or approval of department.
   - Development of Christian art and architecture from the third through eighth centuries in the west, and through the Macedonian Renaissance in the east.

411. **Carolingian, Ottonian, and Romanesque Art**
   - Winter. 4(4-0) H A 207 or approval of department.
   - The history of architecture, painting, and sculpture in the west from the time of Charlemagne through the Ottonian Empire and the great Romanesque churches of the 11th and 12th centuries.

412. **Gothic Art**
   - Spring. 4(4-0) H A 207 or approval of department.
   - Development of the great French cathedrals of the 12th and 13th centuries, including their sculpture, stained glass, and decorations, as well as their influence in other countries.

420. **Italian Renaissance Architecture**
   - Spring. 4(4-0) H A 207 or approval of department.
   - Important buildings of the 15th and 16th centuries, architectural theories, and architectural representations in drawings and paintings.

421. **Italian Renaissance Sculpture**
   - Winter. 4(4-0) H A 207 or approval of department.
   - Major artists from circa 1250 to 1600.