361. Principles of Animal Breeding
(461) Winter, 3(3-0) B S 211 or a course in Mendelian genetics.
Quantitative inheritance, Gene frequency. Statistical tools used in animal breeding. Effect of selection and mating systems on animal population.

433. Ruminant Nutrition
(DRY 433) Winter, 4(3-2) ANS 325. Interdepartmental with and administered by the Department of Dairy Science.
Principles of ruminant nutrition and application to actual feeding practices in commercial dairy and beef operations. Rumen fermentation as related to feed utilization, growth, milk production and milk composition.

523. Animal Nutrition
Fall, 3(4-2) BCH 401.

626. Animal Nutrition
Spring, 4(4-0) One course each: biochemistry, physiology, and approval of department.
Nutrition basic to animal feeding. Application of chemistry and physiology to nutrition. Nutrient requirements for normal body functions. Techniques involved in nutrition research, readings in current literature.

554. Design of Animal Experiments
Spring, 4(4-0) STT 423.
Choice, implementation and statistical analysis of experimental plans for research with animals. Designs for reduction of experimental error. Analysis of experiments with complex structure or unequal subclass numbers.

565. Analysis of Unbalanced Multi-factor Data
Spring, 4(4-0) STT 423.
Applied analysis techniques of field or survey data with unbalanced subclass numbers in field of biological sciences: predictions utilizing several variables; estimation of effects of factors and their interactions.

965. Biometrical Genetics
Fall of odd-numbered years, 4(4-0) ANS 855 and one course in quantitative genetics. Genetics models for quantitative traits; estimation of components of variance; correlation of relatives; Selection Index theory; multi-factor and multivariate responses in designed experiments.

ANTHROPOLOGY - Descriptions of Courses

College of Human Medicine
College of Osteopathic Medicine
College of Social Science

100. The Origin of Man and Culture
Fall, Winter, Spring, Summer. 4(3-1)
Introduction to physical anthropology, the position of man in the animal kingdom, the genetic mechanisms of evolution, human beginnings and the fossil record, racial evolution and racial types. Modern man, the anticipation of culture among other animals and the development of human culture, and culture as an adaptive mechanism.

171. Introduction to Sociocultural Anthropology
Fall, Winter, Spring, Summer. 4(4-1)
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.

1DC. Resource Ecology and Man
Fall, Winter, Spring, Summer. 4(4-1)
For course description, see Interdisciplinary Courses.

1DC. Introduction to Latin America I
For course description, see Interdisciplinary Courses.

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

1DC. Continuing Revolution in China: Problems and Approaches
Fall. 4(3-1) ANP 171.
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.

263. Origin of Civilization: Archaelogy
Winter. 4(4-0)
The rise, development and spread of culture in the period before written history. Archaeological evidence is used to trace the evolution of culture as it has been reconstructed from the excavation of prehistoric sites in the Old and New World.

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 Chronicles of the Gods.

266. War and Aggression
Fall, Spring. 3(3-0)
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 cultures 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
Fall, Spring. 4(4-0)
Racial and cultural problems confronting the African peoples.

285. Anthropology and the Modern World
Spring. 4(2-2) ANP 171.
Interwoven nature of cultural traditions in the modern world. Consideration of how people of developing nations respond to the dominant cultural forces of industrialized nations.

1DC. Contemporary Problems of South Asia
For course description, see Interdisciplinary Courses.

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

350. Peasant Society
Fall. 4(3-1) ANP 171.
Anthropological study of peasants. 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.

380. Methods of Sociocultural Anthropology
Spring, 4(4-0) ANP 171, one upper division sociocultural ANP course, approval of department.
Field research and analysis methods and techniques in anthropology; development of research questions; ethical considerations in research and presentation of findings.

381. Anthropology and Education
Winter. 4(3-1) ANP 171 or other social science. For Education and Anthropology majors.
Museum and socialization in various societies of Asia, Africa, and Latin America. These 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.

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

385. 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.

1DC. Survey of Sub-Saharan Africa
For course description, see Interdisciplinary Courses.
411. Studies in the Anthropology of Asia
Fall, Winter, Spring. 3(3-0) ANP 102 or ANP 171 or approval of instructor. Interdepartmental and coadministered by Human Nutrition and Foods. World and U.S. food behavior focusing on conflicts between behavior and nutritional needs at various stages of life cycle. Anthropological, psychological, and social influences affecting food behavior are analyzed.

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 258 or approval of department.
Separate courses on 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, Summer. 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 on 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.

423. Studies in the Anthropology of the Near East
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 on Near East cultures: North Africa and Southwest Asia. A two-part course sequence is usually given. Part I: Ethnographic survey. Part II: Sub-areas, special problems and approaches.

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.

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.

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

463. Social Anthropology
Fall, Spring. 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.

465. Symbolic Anthropology
Winter. 4(4-0) ANP 221 or ANP 463 or ANP 464, or approval of department.
Course explores 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.
481. Cross-Cultural Relations in the Modern World
Fall, Winter of even-numbered years. 4(4-0) ANP 473. Interdepartmental with the Department of Sociology.
Relation 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.

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 recognition, collection, preliminary laboratory 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.

490. 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.

495. Topics in Medical Anthropology
Fall, Winter, Spring. 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.

499. Independent Study
Fall, Winter, Spring, Summer. 2 to 15 credits. May reenroll for a maximum of 16 credits. Written approval of instructor and department.
Study of a selected topic under the guidance of a faculty adviser in the area of specialty, including field work.

801. 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.

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

803. Introduction to Paleoanthropology I
Winter 4(4-0) Approval of department.
Examination of evolutionary theory followed by an examination of methods and techniques pertinent to the study of hominid evolution and the development of culture through the Middle Pleistocene.

804. Introduction to Paleoanthropology II
Spring, 4(4-0) ANP 803.
Examination of hominid evolution and cultural development from the Middle Pleistocene through the Early Holocene. Emphasis on selection and comparison of methods and the ways in which paleoanthropologists solve problems.

805. 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.

825. Seminar in Cross-Cultural Relations
Winter of odd-numbered years. 4(4-0) Approval of department. Interdepartmental with the Department of Sociology.
Analysis of the relations between suprasecondary and subordinate societies and between coordinate societies and cross-cultural exchange programs.

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

830. Human Osteology and Osteometry
Spring, 4(4-0) May reenroll for a maximum of 12 credits. Approval of department.
Techniques and problems of information retrieval will be emphasized.

831. Linguistic Anthropology
Winter. 3(3-0) Approval of department.
The nature of language; techniques for the description and comparison of languages; linguistics as an anthropological tool; language and culture.

833. 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 archaeology to the other fields of anthropology on both a theoretical and practical level. Archaeological data are used to introduce problems of long-range cultural change and development.

835. Human Osteology and Osteometry
Spring of even-numbered years. 5(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 pathologizing.

IDC. Interdisciplinary Seminar on Africa
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.