

ANIMAL SCIENCE ANS

College of Agriculture and
Natural Resources

101. *Animal Science*
Fall. 5(4-2)

Survey of the animal industries including history, economic geography, anatomy and physiology, nutrition and feed usage, and systems of commercial livestock and poultry production.

213. *Animal Science Seminar*
Fall. 1(2-0)

Animal science industries. Industry representatives will be utilized to discuss particular areas.

325. *Principles of Animal Nutrition*
Spring. 5(5-0) CEM 132; BCH 200
recommended.

Livestock feeds and their nutrients. Functions of and requirements for nutrients. Evaluation of feeds. Feeding practices. Formulation of rations for beef and dairy cattle, horses, poultry, sheep and swine.

461. *Principles of Animal Breeding*
Winter. 3(3-0) CSC 250.

Quantitative inheritance. Gene frequency. Statistical tools used in animal breeding. Effect of selection and mating systems on animal population.

525. *Animal Nutrition*
Winter. 5(4-2) BCH 401.

Principles of nutrition. Nutrients and their metabolism. Nutritive requirements for maintenance, growth, reproduction, lactation and work. Nutrient sources and their use in preparing diets for domestic animals.

826. *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.

854. *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.

855. *Analysis of Nonorthogonal Research 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)
One course in quantitative or population genetics.

Genetic expectations in random mating and inbred populations. Estimation of genetic parameters. Relation of gene frequency to population mean and variance. Components of genetic variance. Correlation of relatives. Selection theory.

ANTHROPOLOGY ANP

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 among modern man, the anticipation of culture among other animals and the development of human culture, and culture as an adaptive mechanism.

171. *Introduction to Anthropology*
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.

1DC. *Resource Ecology and Man*
For course description, see Interdisciplinary Courses.

221. *Introduction to Social and Cultural Analysis*
Fall, Spring. 4(3-1) 171.

Basic theoretical framework of socio-cultural analysis: structural functionalism, evolutionism, and cultural ecology.

250. *Culture, Environment and Adaptation*
Fall. 4(3-1) 100.

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*
For course description, see Interdisciplinary Courses.

262. *Status of Women in Non-Western Societies*
Winter. 3(3-0) 171 or approval of department.

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: Archaeology*
Spring. 4(3-0) 100.

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 pre-historic sites in the Old and New World.

265. *Vanished Peoples and Lost Civilizations*
Fall. 4(4-0)

Concepts of cultural evolution and origins of civilization as found in popular literature ranging from Atlantis to Chariots of the Gods.

275. *The Anthropology of Asia*
Fall. 4(3-0) Sophomores or approval of department.

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(3-0) Sophomores or approval of department.

Racial and cultural problems confronting the African peoples.

285. *Anthropology and the Modern World*
Spring. 4(2-2) 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.

350. *Peasant Society*
Fall. 4(3-1) 171.

Anthropological study of peasantry. Comparative examination of the rural societies and cultures of Asia, Europe, and Latin America.

356. *Culture, Health and Illness*
Spring. 4(3-1) 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.

381. *Anthropology and Education*
Winter. 4(3-1) 171 or other social science. *For Education and Anthropology majors.*

Maturation 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.

387. *Ethnicity and Nation Building*
Spring. 4(2-2) 171.

Ethnic minorities and the roles they play in fostering and/or hindering nation building processes in Third World countries. A theoretical framework is utilized to compare systematically these roles in various areas of the world.

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

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For course description, see Interdisciplinary Courses.

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

411. *Studies in the Anthropology of Asia*

Fall, Winter, Spring. 4(3-0) *May re-enroll for credit for Part II in an area and/or for another area. 171; 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.

**Descriptions — Anthropology
of
Courses**

415. Studies in the Anthropology of Africa

Winter, Spring. 4(3-0) May re-enroll for credit for Part II in an area and/or for another area. 171; 281 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 in the New World

Fall, Winter, Summer. 4(3-0) May re-enroll for credit for Part II in an area and/or for another area. 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(3-0) May re-enroll for credit for Part II in an area and/or for another area. 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

Fall of odd-numbered years. 3(3-0) 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 Man

Winter of odd-numbered years. 3(3-0) 100.

Fossil evidence and theory pertaining to human evolution during the last four million years.

446. Primatology

Spring. 3(3-0) 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

Fall, Winter. 4(4-0) 100 or 171, and 263; 6 additional credits in anthropology.

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.

463. Social Anthropology

Fall. 4(3-0) 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(3-0) 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) 171 and 463 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(3-0) Approval of department. Interdepartmental with the English Department.

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 odd-numbered years. 4(4-0) 171 and 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 analyses of rank.

469. Cultural Areas of the World

Winter, Summer. 4(3-0) May re-enroll for credit when new area is given. 100 or 171 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

Winter. 4(4-0) 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 sociology course. Interdepartmental with the Sociology Department.

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) 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. 4(4-0) 171.

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 national politics in developing countries seen in a comparative framework.

IDC. Canadian-American Studies

For course description, see Interdisciplinary Courses.

481. Cross-Cultural Relations in the Modern World

(466.) Winter of even-numbered years. 4(4-0) 473. Interdepartmental with the Department of Sociology.

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.

499. Independent Study

Fall, Winter, Spring, Summer. 2 to 16 credits. May re-enroll 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) 801.

Continuation of 801.

803. 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.

804. Introduction to Paleoanthropology II

Spring. 4(4-0) 803.

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.

805. History of Anthropological Theory

(829.) Fall. 5(5-0) 802, 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.

821. Evolution of Man

Fall. 5(3-3) Approval of department.

Intensive review of biological and cultural evolution of man, with emphasis placed on anatomy, ethnology, polymorphism, genetics, cultural ecology, prehistory, and the development of civilization.

825. Seminar in Cross-Cultural Relations

Winter of odd-numbered years. 4(3-0) Approval of department. Interdepartmental with the Sociology Department.

Analysis of the relations between superordinate and subordinate societies and between coordinate societies and cross-cultural exchange programs.

826. Ethnology of Selected Areas

Fall, Spring. 4(3-0) May re-enroll for a maximum of 16 credits. Approval of department.

Intensive review of ethnology of selected culture areas with emphasis on current anthropological problems of that area.

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

830. Kinship Studies
Winter. 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.

831. Linguistic Anthropology
Winter. 5(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.

833. Anthropological Problems of Prehistory
Spring. 5(3-2) 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
Fall of even-numbered years. 5(3-4) 821 or ANT 540.

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.

IDC. Interdisciplinary Seminar on Africa
For course description, see Interdisciplinary Courses.

850. Archaeological Methods and Techniques
Winter. 4(4-0) 833 or approval of department.

Seminar outlining archaeological method 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 12 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
Spring. 4(3-0) 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(3-0) 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. Variable credit. Approval of department.

Special fields of study will include any area of anthropology selected.

875. Individual Research Projects
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

880. Individual Readings
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

899. Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

922. Dimensions of Culture
Winter. 5(5-0) Approval of department.

Intensive review of principles of cultural anthropology, ethnology, and cultural change with particular attention to systems theory and interconnections of cultural, social, personality, and ecological systems.

923. Cultural Dynamics
Spring. 5(3-2) Approval of department.

Intensive review of culture change theories, processes of the development of the self, contemporary cultural movements, and the application of anthropological knowledge.

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

ART

College of Arts and Letters

History of Art

H A

205. Introduction to Art
Fall, Winter, Spring. 3(3-0) Not open to majors.

Painting, sculpture and architecture from the time of the Greeks to the present. Individual works of art examined intensively, as regards both their formal qualities and the manner in which they exemplify the shifting patterns of Western culture.

206. History of Western Art
Fall. 4(4-0)

Painting, sculpture, architecture and decorative art from prehistoric to modern times. Provides acquaintance with the forms of art typical of each period and indicates the aesthetic qualities which give them artistic significance. Work in first term covers Prehistoric, Egyptian, Mesopotamian, Greek, Roman, Early Christian and Byzantine periods.

207. History of Western Art
Winter. 4(4-0)

Continuation of 266. Early Medieval, Romanesque, Gothic, Renaissance and Mannerist periods.

208. History of Western Art
Spring. 4(4-0)

Continuation of 267. Baroque, Rococo, Neoclassic and subsequent periods to contemporary art.

400H. Honors Work

Fall, Winter, Spring, Summer. 1 to 6 credits. Approval of department.

404. Greek Art and Archaeology
Winter. 4(4-0) 206 or approval of department.

The history of painting, sculpture and architecture of ancient Greece from the Bronze Age through the Hellenistic period. The history of archaeology excavations of selected sites.

405. Roman Art and Archaeology
Spring. 4(4-0) 206 or approval of department.

The history of painting, sculpture and architecture of Ancient Rome from the Republic through the 4th century. The history of archaeological excavations of selected sites.

406. Ancient Painting
Spring of odd-numbered years. 4(4-0) 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) 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) 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. Byzantine Art
Fall, Summer. 4(4-0) 206 or approval of department.

Late antique painting, sculpture and architecture and their development in the East Christian Empire and Orthodox Russia.

411. Early Medieval Art
Winter, Summer. 4(4-0) 207 or approval of department.

History of architecture, sculpture, and painting in the Latin West from Hiberno-Saxon art of the 7th century to the Romanesque Abbeys of the 12th century.

412. Later Medieval Art
Spring, Summer. 4(4-0) 207 or approval of department.

Gothic painting, sculpture, and architecture with particular emphasis on the cathedrals of the 13th century.

420. Italian Renaissance Architecture
Spring. 4(4-0) 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) 207 or approval of department.

Major artists from circa 1250 to 1600.