452. **Sheep Production**  
Spring. 4(3-0) ANS 325 or approval of department.  
History, modern breeds, breeding, selection, nutrition and feeding, management, housing, diseases and parasites, wool. Visits to farm flocks. Practice in management skills.

453. **BeeF Production**  
Spring. 4(3-0) ANS 325 or approval of department.  
History, breeds, breeding, selection, nutrition and feeding, commercial systems of production, disease and parasites. Visits to purebred herds and feed lots. Practice in management skills.

454. **Horse Production**  
Fall of even-numbered years. 3(1-3) ANS 335 or approval of department by instructor.  
Horse selection, breeding, feeding, management and merchandising. Arranged class hours to be spent at the Horse Farm.

462. **Meat Animal Breeding**  
Fall, Winter, Spring. 3 credits.  
Uses and effects of different breeding systems with beef cattle, sheep, and swine. Formulating breeding plans.

825. **Techniques in Nutrition Research**  
Winter of odd-numbered years. 1 to 3 credits. CEM 333; approval of department. Interdepartmental with Human Nutrition and Foods.  
Use of specialized instruments and techniques. Laboratory safety. Management of laboratory animals. Development of abilities in areas of particular interest to individual students.

325. **Principles of Animal Nutrition**  
Spring. 5(5-0) CEM 133; BCH 200 recommended.  

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

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

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, market. Designs for reduction of experimental error. Analysis of experiments with complex structure or unequal subclass numbers.

965. **Biometrical Genetics**  
Fall. 4(4-0) One course in quantitative or population genetics.  

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**ANTHROPOLOGY**

**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 anthroplogy; 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.

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 prehistoric sites in the Old and New World.

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.

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 sciences.  
   For Education and Anthropology majors.

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.

IDC. **Contemporary Problems of Japan**  
   For course description, see Interdisciplinary Courses.

391. **Language and Cultural Contact Phenomena**  
   Fall, Winter. 4(4-0) 171 and 563. 6 additional credits in anthropology.  
   Archaeology of different areas with emphasis on prehistoric adaptations to natural and social environments. Settlement patterns, subsistence, technology, and artifacts. Areas covered will vary with staff and student interest.

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.

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. **Races of Man**  
   Fall of odd-numbered years. 3(0-0) 100.  
   Origins and evolutionary meaning of human physical variation. Racial variations as an adaptive phenomenon. Roles of genetic and environmental influences in creating the phenotype.

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

446. **Primatology**  
   Spring. 3(0-0) 100.  
   The order primates: evolution, taxonomy, biology, and behavior. Primates in culture, 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.  
   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, African Indian, Latin America, Near East, Northeast Asia, Pacific, and Southeast Asia.

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(3-0) 171 and 493 or approval of department.  
   Course explains how human perception and communication are guided by systems and methods and relates systems of thought to systems of action. Examples from written 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 topics 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.

485. **Systems of Rank**  
   Spring of odd-numbered years. 4(3-0) 171 and 493 or approval of department.  
   A comparative study of systems of rank such as age grading, status, spatial, class, and class systems. The course emphasizes both symbolic and transactional analyses of rank.

499. **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, African Indian, Latin America, Near East, Northeast Asia, Pacific, and Southeast Asia.

472. **Anthropology of Legal Systems**  
   Winter. 4(3-0) 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.

474. **Culture and Economic Behavior**  
   Winter. 4(3-0) 463 or approval of department.  
   Economic systems of changing cultures in Asia, Africa and Latin America. The cultural matrix of economic transactions must be considered. 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(3-0) 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 role 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(4-4) 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.
### Anthropology

#### Description
- **Anthropology**
  - 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.
  - Exploration of evolution 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.
  - 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.
  - A review of the various schools of thought, important personalities, and principal concepts that have contributed to the development of anthropological theory.
  - 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.
  - Analysis of the relations between superordinate and subordinate societies and between coordinate societies and cross-cultural exchange programs.
  - Intensive review of ethnology of selected culture areas with emphasis on current anthropological problems of that area.
  - Review of current theoretical problems in social and cultural anthropology.
  - 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.

#### Courses

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td><strong>Core Seminar in Ethnographic Analysis I</strong></td>
<td>4(4-0)</td>
<td>Approval of department.</td>
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<tr>
<td><strong>Core Seminar in Ethnographic Analysis II</strong></td>
<td>Winter, 4(4-0) Approval of department.</td>
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<tr>
<td><strong>Introduction to Paleoanthropology I</strong></td>
<td>Winter, 4(4-0) Approval of department.</td>
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<tr>
<td><strong>Introduction to Paleoanthropology II</strong></td>
<td>Spring, 4(4-0) 803.</td>
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<tr>
<td><strong>History of Anthropological Theory</strong></td>
<td>(Fall) 5(5-0) 802, 804 or Approval of department.</td>
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<tr>
<td><strong>Evolution of Man</strong></td>
<td>Fall, 5(3-3) Approval of department.</td>
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<tr>
<td><strong>Seminar in Cross-Cultural Relations</strong></td>
<td>Winter of odd-numbered years, 4(3-0) Approval of department. Interdepartmental with the Sociology Department.</td>
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<tr>
<td><strong>Ethnology of Selected Areas</strong></td>
<td>Fall, Spring, 4(3-0) May re-enroll for a maximum of 16 credits. Approval of department.</td>
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<tr>
<td><strong>Anthropological Theorists</strong></td>
<td>Winter, 4(4-0) May re-enroll for credit with approval of department. Approval of department.</td>
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<tr>
<td><strong>Kinship Studies</strong></td>
<td>Winter, 4(4-0) Approval of department.</td>
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<tr>
<td><strong>Linguistic Anthropology</strong></td>
<td>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.</td>
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<tr>
<td><strong>Anthropological Problems of Prehistory</strong></td>
<td>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.</td>
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<tr>
<td><strong>Human Osteology and Osteometry</strong></td>
<td>Fall of even-numbered years, 5(3-4) 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 paleoanthropology.</td>
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<tr>
<td><strong>IdC. Interdisciplinary Seminar on Africa</strong></td>
<td>For course description, see Interdisciplinary Courses.</td>
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<tr>
<td><strong>Archaeological Methods and Techniques</strong></td>
<td>Winter, 1 to 12 credits. 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.</td>
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<tr>
<td><strong>Methodology of Anthropological Research</strong></td>
<td>Winter, 4(4-0) 833 or 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.</td>
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<tr>
<td><strong>Environment, Technology, and Culture</strong></td>
<td>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.</td>
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<tr>
<td><strong>Applied Anthropology</strong></td>
<td>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.</td>
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<tr>
<td><strong>Seminar in Special Subject Fields</strong></td>
<td>Fall, Winter, Spring, Summer. Variable credit. Approval of department. Special fields of study will include any area of anthropology selected.</td>
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<tr>
<td><strong>Individual Research Projects</strong></td>
<td>Fall, Winter, Spring, Summer. Variable credit. Approval of department.</td>
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#### Other Courses

**ART**

#### History of Art

**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.

**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.

**History of Western Art**
- Fall, 4(4-0) Continuation of 286. Early Medieval, Romanesque, Gothic, Renaissance and Mannerist periods.

**History of Western Art**
- Spring, 4(4-0) Continuation of 287. Baroque, Rococo, Neoclassic and subsequent periods to contemporary art.

**Honors Work**
- Fall, Winter, Spring, Summer. 1 to 6 credits. Approval of department.

**Greek Art**
- Winter, 4(3-0) 206 or approval of department. The history of painting, sculpture and architecture of ancient Greece from the Bronze Age through the end of the Hellenistic period.