ANIMAL HUSBANDRY

College of Agriculture and Natural Resources

111. Livestock and Meat Industry
Fall, Spring. (4-3-4)
Adaptation, distribution and numbers of livestock throughout the world, significance and economic importance. Trends in livestock production. Evaluation, foraging, classifying and marketing of livestock and meat. Relationship of live animal conformation to carcass merit.

241. Meat Production
(141.) Winter. 4(2-8) 111.

453. Microscopic Anatomy
Fall, Spring. Human Medicine students: approval of department for graduate students.

801. Seminar
Fall, Winter, Spring. 1(1-0) Approval of department.

116. Problems in Anatomy
Fall, Winter, Spring. Variable credit. May re-enroll for a maximum of 15 credits. Human Medicine students: approval of department for graduate students.

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

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

927. Comparative Nutrition I
Winter. 2 or 4 credits. BCH 402, PSL 503 or concurrently, interdepartmental with and administered by the Foods and Nutrition Department.

963. Genetics of Breed Improvement
Winter. 3(3-0) ANS 461, STT 421.

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

245. Meat Evaluation and Grading
Fall, Spring. 1 to 3 credits. May re-enroll for a maximum of 6 credits.

335. Livestock Selection
Fall, Winter, Spring. 1 to 3 credits.

451. Swine Production
Spring. (4-3-2) ANS 325 or approval of department.

452. Sheep Production
Winter of even-numbered years. 5 credits. Approval of department.

454. Horse Production
Fall of even-numbered years. 3(2-2) ANS 325 or approval of department.

462. Meat Animal Breeding
Spring. 3(2-2) ANS 461.
Use and effects of different breeding systems with beef cattle, sheep, goats, and swine. Formulation of breeding plans.

485. Techniques in Nutrition Research
Winter of odd-numbered years. 1 to 3 credits. CEM 333; approval of department, interdepartmental with the Foods and Nutrition Department.

461. Principles of Animal Breeding
Winter. 3(3-0) CSC 250.
Use and importance of selection, inbreeding and outbreeding in controlling inheritance.
525. Animal Nutrition
Winter, Summer. 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.

654. Design of Animal Experiments
Spring. 4(4-0) STT 422.
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 subclasses.

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

ANTHROPOLOGY

College of Human 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.

200. Resource Ecology and Man
For course description, see Interdisciplinary Courses.

263. Origin of Civilization: Archaeology
Spring. 4(3-0) 100 or 171.
The rise, development and spread of culture in the period before written history. Archaelogical 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.

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.

290. Survey of Subsaharan Africa
For course description, see Interdisciplinary Courses.

390. Survey of Subsaharan Africa
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, Summer. 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
Fall, Winter, Spring. Summer. 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 of the New World
Fall, Winter, Spring, 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
Fall, 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.

434. Ethnographic Minorities Around the World
Spring. 4(3-0)
Examination of ethnic minorities, their problems and patterns of adaptation in Asia, Africa and Latin America. Emphasis is placed on social structure of the minorities and the dominant attitudes of both the majority and minority peoples.

450. Area Courses in Prehistory
Fall, Winter. 4(4-0) 160 or 171, and 262; 6 additional credits in anthropology.
Archaeology of different areas with emphasis on prehistoric adaptations to natural and social environments. Selection patterns, subsistence, technology, and style will be considered. Areas covered will vary with staff and student interest.

483. 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.

484. 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.

486. Cross-Cultural Relations in the Modern World
Winter of even-numbered years. 3(3-0) 171 or SOC 241. Interdepartmental with the Sociology Department.
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.

487. 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 Content 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.

489. Cultural Areas of the World
Fall, Winter, Spring. 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 interest: Africa; American Indian, Latin America, Near East, Northeast Asia, Pacific, and Southeast Asia.

473. Culture and Personality
Fall, Spring. 4(3-0) 171 or SOC 241. 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 general 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. Culture and Political Behavior
Spring. 4(4-0) 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 national politics in developing countries seen in a comparative framework.

476. Canadian-American Studies
For course description, see Interdisciplinary Courses.