

**Description — Veterinary Medicine
of
Courses**

610. Veterinary Externship
Fall, Winter, Spring, Summer. 6 to 12 credits. May reenroll for a maximum of 12 credits. Veterinary Medicine students; completion of preclinical courses and approval of college. Students may not receive credit in both VM 610 and LCS 674.
Clinical or research experience in an off-campus setting.

**WOMEN'S STUDIES
PROGRAM**

W S

**College of Arts and Letters
College of Social Science**

201. Introduction to Women's Studies: Women's Consciousness
(IDC 233.) Winter, Spring. 4(4-0)
Interdepartmental with the colleges of Arts and Letters and Social Science.

Development of women's consciousness in various historical, cross-cultural and scientific contexts. Contexts basic to feminist thought are clarified. Critique of sexism in traditional scholarship.

300. Special Topics in Women's Studies
Spring of even-numbered years. 3(3-0) or 4(4-0) May reenroll for a maximum of 8 credits if different topic is taken. Sophomores, W S 201 or approval of instructor. Interdepartmental with the colleges of Arts and Letters and Social Science.

Special topic emphasizing women and/or gender.

305. Women's Studies Internship
Fall, Winter, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 4 credits. Six credits of women's studies courses, approval of Women's Studies Program. Interdepartmental with the colleges of Arts and Letters and Social Science.

Integration of feminist knowledge through work experience in legislative, community or educational settings.

401. Women's Studies Senior Level Seminar
Spring. 4(4-0) Juniors; W S 201 or six credits of ATL 181, ATL 182, ATL 183. Interdepartmental with the colleges of Arts and Letters and Social Science.

Synthesis of course work in women's studies. Emphasis is on individualized research projects.

402. Feminist Theory
Fall. 4(4-0) Nine credits in women's studies courses, approval of instructor. Interdepartmental with the colleges of Arts and Letters and Social Science.

Integrative theoretical approaches to women's studies; ways of conceptualizing sex and gender; varieties of explanation of sexual inequality; feminist critiques of traditional knowledge.

409. Independent Study in Women's Studies
Fall, Winter, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 8 credits. Juniors, approval of Women's Studies Program. Interdepartmental with the colleges of Arts and Letters and Social Science.

Individual reading and research on women and gender.

425. Women and Religion: Feminist Critiques Since 1970
Winter. 3(3-0) Juniors or approval of department. Interdepartmental with and administered by the Department of Religious Studies.

Writings and thought of contemporary Jewish and Christian feminist theologians; views on scripture, God-language, patriarchy, ministry, spirituality, ethics. Scriptural reinterpretations; overview of women's role and place in world religions.

313. Animal Behavior
Spring; 4(4-0). Given at W. K. Kellogg Biological Station Summer term of odd-numbered years: 4 credits. B S 211.

Description of the known behavior of the various vertebrate and invertebrate phyla with emphasis upon adaptive significance. Thus, special attention will be given to mating, defensive, and nutritive behavior. The genetics and ontogeny of behavioral patterns will be presented where known. Behavior will be related to the ecology of various animal populations.

317. Principles of Development
Fall, Spring, Summer. 3(3-0) B S 211.

Development of animals, especially vertebrates. Principles are illustrated by modern experimental studies of developmental problems.

318. Principles of Development Laboratory
Fall, Spring. 2(0-6) ZOL 317 or concurrently; B S 212.

Principles of development illustrated by analysis of the ontogeny of selected organisms.

337. The Fossil Record of Organic Evolution
Spring. 3(3-0) One course in a natural science; Juniors. Interdepartmental with and administered by Geology.

The direct evidence for organic evolution in the fossil record. Evolution of life from prebiological systems to humans. Impact of fossil discoveries on human thought.

341. Human Heredity
Fall, Winter. 4(4-0) Sophomores. Not open to zoology majors. Students may not receive credit in more than one of the following: ZOL 341, ZOL 441.

Inheritance of human physiological, and psychological traits. Forces that influence human evolution. Applications of heredity in fields of education, sociology, anthropology, psychology, dentistry, and medicine.

389. Animal Ecology
Winter, Summer. Given at W. K. Kellogg Biological Station Summer term. Winter: 4(3-4) Summer: 4 credits. B S 212 or concurrently.

Animals in relation to their environment. Factors affecting the distribution and abundance of animals. Interrelationships between climate, soils, vegetation, geologic history and animal life. Population characteristics as related to reproduction and mortality factors.

391. Zoological Problems
Fall, Winter, Spring, Summer. 1 to 8 credits. May reenroll for a maximum of 12 credits. Juniors; B S 212; 6 credits in zoology; approval of department.

Advanced work in morphology, field zoology, genetics, mammalogy, ornithology, or ichthyology.

400H. Honors Work
Fall, Winter, Spring. 1 to 5 credits. May reenroll for a maximum of 15 credits. Juniors; approval of department.

ZOOLOGY

ZOL

**College of Human Medicine
College of Natural Science**

203. Resource Ecology
(IDC 200.) Fall, Winter, Spring, Summer. 3(3-0) Interdepartmental with the departments of Fisheries and Wildlife, Forestry, Geography, and Resource Development. Administered by the Department of Fisheries and Wildlife.

Basic concepts of ecology which are the unifying basis for resource management, conservation policy and the analysis of environmental quality. Extensive use of guest lecturers.

301. Nature and Homo Sapiens
Spring. 4(4-0) Three terms of natural science; not open to zoology majors.

A case study approach which explores the interaction of technical, social, economic and legal influences on the management of contemporary environmental issues in Michigan.

302. Vertebrate Life of the Past
Fall. 3(3-0) One course in physical or biological science or Juniors. Interdepartmental with and administered by Geology.
Fossil vertebrates from fish to humans.

304. Biology, Behavior and Humans
Winter. 3(3-0) Juniors; not open to zoology majors.

Examines philosophical and biological issues which make the study of animal behavior relevant to humans. Emphasizes history of animal behavior, current theories, and experiments relating biological and environmental determinants of adaptive and non-adaptive behavior patterns.

306. Invertebrate Biology
Fall. 4(3-3) B S 212.

Systematics, morphology, and natural history of invertebrate animals. Laboratory includes identification of live and preserved animals and recognition of morphological characteristics of selected groups.

307. Vertebrate Biology
Winter, Summer. Given at W. K. Kellogg Biological Station Summer term. Winter: 4(3-3) Summer: 4 credits. B S 212.

Systematics, morphology and natural history of vertebrate animals. Laboratory includes identification of live and preserved animals and recognition of morphological characteristics of selected groups.