

**833. Data Sources and Research
Methods in Labor and Industrial
Relations**

Fall, Winter. 4(3-0) One under-graduate statistics course.

Review and evaluation of sources and data, analysis of research design and methods used in study of labor and industrial relations.

**841. Collective Bargaining in Public
Employment**

Spring, Summer. 4(3-0) EC 305 or approval of school.

History and current status of collective bargaining practices and governmental policies in the public sector.

**854. Comparative Industrial
Relations Systems**

Winter. 4(3-0) EC 305.

Comparative analysis of industrial relations systems in countries of various stages of economic development.

857. Wage Theory

Fall. 3 credits. EC 320, 324, or approval of department. Interdepartmental with and administered by the Economics Department.

Advanced analysis of: theories of wage determination; labor market research, economic effects of collective bargaining upon the national wage structure, output, employment, distribution of national income, the price level; nature and effects of government wage policies.

858. Industrial Relations

Winter. 3 credits. EC 305 and approval of department. Open to graduate students in economics and related fields such as labor and industrial relations, psychology, sociology, anthropology, political science, business, and history. Interdepartmental and administered jointly with the Economics Department.

Problems and issues in the administration and negotiation of collective bargaining agreements; includes both economic and noneconomic aspects of industrial relations policies and practices.

**865. Grievance Administration and
Arbitration**

Winter, Spring. 4(3-0) Approval of school.

Grievance procedure and arbitration as the terminal step in the grievance process. Analysis of industrial common law.

**881. Advanced Seminar in Labor and
Industrial Relations**

Spring. 4(4-0) May re-enroll for a maximum of 8 credits. Twelve graduate credits or approval of school.

Integrative and synthesizing seminar for advanced students; intensive analysis of selected problems in labor and industrial relations.

**895. Readings in Labor and Industrial
Relations**

Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 8 credits. Approval of school.

**899. Research in Labor and Industrial
Relations**

Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 9 credits. Approval of school.

901. Theories of the Labor Movement

Fall. 4(4-0) 801 or approval of school.

Selected topics in the philosophy, theory, and behavior of the labor movement.

911. Seminar in Manpower

Fall. 4(3-0) Approval of school.

Critical study of research and policy on selected manpower problems.

958. Seminar in Collective Bargaining

Spring. 4(3-0) EC 858 or approval of school.

Critical study of selected contemporary areas and issues in collective bargaining.

**LABORATORY ANIMAL
RESOURCES LAR**

College of Veterinary Medicine

824. Laboratory Animal Medicine

(VSM 824.) Fall, Spring. 3(2-3) Completion of ninth-term professional Veterinary Medicine program.

Basic physiologic data, housing requirements, genetics, breeding systems, diseases, humane practices, and nutrition, of major laboratory animal species; administration of animal quarters, techniques of handling and treatment.

**825. Comparative Medical
Experimentation**

Spring. 2(1-3) Graduate status, B. S. in biological sciences and approval of department.

Critical analysis of animal experimentation reported in biological journals related to the students' interest with special emphasis on effects of environment and host variables upon validity of experimental results.

826. Laboratory Animal Pathology

Spring. 4(3-3) Graduate status and approval of department. Interdepartmental with the Department of Pathology.

Macro and microscopic studies on the diseases of laboratory animals, with special emphasis on naturally-occurring diseases which might interfere with the interpretation of experimental results.

LANDSCAPE ARCHITECTURE

See Urban Planning and Landscape Architecture

**LARGE ANIMAL SURGERY
AND MEDICINE* LSM**

College of Veterinary Medicine

**412. Livestock Hygiene and Disease
Control**

(VSM 412.) Winter. 3(3-0) Juniors; Agriculture majors.

Fundamentals of health and disease in animals, relation of infectious and parasitic diseases of animals to human health, disease prevention and role of veterinarian in preventive medicine.

*Established November 1, 1968. Formerly part of the Department of Veterinary Surgery and Medicine.

**488. The Impact of Animal Resource
Management Upon the World's
Developing Nations**

Winter. 3(4-0)
For course description, see Interdisciplinary Courses.

505. Large Animal Clinic I

Fall, Winter, Spring, Summer. 3(0-10) Eighth-term or ninth-term Veterinary Medicine students.

Clinical instruction and experience in diagnosis, patient care, medication, surgery, disease prevention, and herd health.

**521. Large Animal Surgery and
Medicine I**

(VSM 521.) Fall, Spring. 8(7-3) Seventh-term Veterinary Medicine students.

Occurrence, etiology, symptomatology, diagnosis, prognosis, treatment and prevention of diseases of reproductive, digestive, and respiratory systems. Demonstrations of laboratory experience in basic clinical skills including restraint, diagnosis, medication, and surgery.

**522. Large Animal Surgery and
Medicine II**

(VSM 522.) Winter, Summer. 6(5-3)

521. Occurrence, diagnosis and treatment of surgical diseases of large animals. Discussion of diseases of cardiovascular, hematopoietic, urinary, nervous and integumentary systems. Demonstrations and laboratory experience in large animal surgery techniques.

**523. Large Animal Surgery and
Medicine III**

(VSM 523.) Fall, Spring. 7(7-0)

522. Occurrence, diagnosis and treatment of surgical and reproductive diseases. Includes radiology and diseases of locomotion.

531. Meat Hygiene

(VSM 531.) Fall, Spring. 2(2-0) Ninth-term Veterinary Medicine students.

Judging fitness of meat for human consumption based on a knowledge of bacteriology, parasitology and pathology. Organization and operation of meat inspection programs. Field trip required.

605. Large Animal Clinic II

(VSM 605.) Fall, Winter, Spring, Summer. 12(0-36) 505.

Advanced clinical instruction and experience in diagnosis, patient care, medication, surgery, disease prevention, and herd health. Includes handling of clinic patients under direct supervision of staff veterinarians and ambulatory clinic.

**624. Large Animal Surgery and
Medicine IV**

(VSM 624.) Winter, Summer. 4(4-0)

523. Etiology, pathogenesis, epidemiology, pathological changes, differential diagnosis, prevention, control and treatment of specific infectious diseases of large animals.

**630. Jurisprudence, Ethics and
Business Management**

(VSM 630.) Fall, Spring. 5(5-0) Eleventh-term Veterinary Medicine students.

Legal rights, responsibilities and liabilities of practicing veterinarians. Management and business principles of veterinary practice.

**809. Problems in Large Animal
Surgery**

(VSM 809.) Fall, Winter, Spring, Summer. Variable credit.

811. Problems in Large Animal Medicine
(VSM 811.) Fall, Winter, Spring, Summer. Variable credit.

813. Seminar
(VSM 813.) Fall, Winter, Spring. 1 credit.

823. Special Surgery
(VSM 823.) Spring. 3(1-6) May re-enroll for a maximum of 6 credits. Approval of department.
Surgical techniques and tissue reactions following surgery in large animals.

899. Research
(VSM 899.) Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 18 credits. Approval of department.
Research on thesis problems.

LATIN

See Romance Languages

LINGUISTICS AND ORIENTAL AND AFRICAN LANGUAGES

College of Arts and Letters

Courses in CHINESE and JAPANESE on the 300 level or higher are normally conducted in the language.

Linguistics and Oriental and African Language Courses

LOA

299. Special Projects
Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 18 credits. Approval of department.
Work in areas outside regular course offerings.

499. Special Projects
Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 18 credits. Approval of department.
Work in areas outside regular course offerings.

African Languages

AFR

101. African Languages-Elementary
Fall. 4(3-2) May re-enroll for 101-102-103 sequence in more than one African language.

Comprehension and speaking taught by a linguist with native informants. Offerings include Bemba, Hausa, Ibo, Pidgin, Swahili, Yoruba. These and other African languages are taught upon sufficient demand and availability of instructors.

102. African Languages-Elementary
Winter. 4(3-2) May re-enroll for 101-102-103 sequence in more than one African language. 101.
Continuation of 101.

103. African Languages-Elementary
Spring. 4(3-2) May re-enroll for 101-102-103 sequence in more than one African language. 102.
Continuation of 102.

200H. Honors Work
Fall, Winter, Spring. 1 to 16 credits. Approval of department.

201. African Languages-Intermediate
Fall. 4(4-0) May re-enroll for 201-202-203 sequence in more than one African language. 103 in appropriate language or approval of department.
Continuation of African Languages-Elementary. Comprehension, speaking, reading and writing taught by a linguist with native informants. See AFR 101 for languages available.

202. African Languages-Intermediate
Winter. 4(4-0) May re-enroll for 201-202-203 sequence in more than one African language. 201.
Continuation of 201.

203. African Languages-Intermediate
Spring. 4(4-0) May re-enroll for 201-202-203 sequence in more than one African language. 202.
Continuation of 202.

400H. Honors Work
Fall, Winter, Spring. Variable credit. Approval of department.

420. African Literature in Translation
(C L 420.) Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits. Juniors or approval of department.
Development and influence of the ideas, forms and motifs of African literatures in the literatures of the world.

450. African Languages-Advanced
Fall, Winter, Spring. Variable credit. May re-enroll for maximum of 18 credits. Approval of department.
Advanced training or specialized research in particular African languages.

Chinese

CHS

101. Elementary Chinese
Fall. 4(3-5)
Introduction to Mandarin, the official spoken language of China, with emphasis on pronunciation drill and conversation practice.

102. Elementary Chinese
Winter. 4(3-5) 101.
Continued practice in conversation and aural comprehension; introduction to the reading and writing of Chinese characters.

103. Elementary Chinese
Spring. 4(3-5) 102.
Continuation of 102 and grammatical analysis of basic Chinese sentence structure.

200H. Honors Work
Fall, Winter, Spring. 1 to 16 credits. Approval of department.

201. Second-Year Chinese
Fall. 3(3-0) 103.
Conversation, reading, and writing at the intermediate level.

202. Second-Year Chinese
Winter. 3(3-0) 201.
Reading of advanced texts; introducing Chinese radicals and practice in the use of a Chinese dictionary.

203. Second-Year Chinese
Spring. 3(3-0) 202.
Continuation of 202; selected texts from Chinese newspapers, periodicals, and political journals.

221. Second-Year Conversation and Composition
Fall. 2(2-0) 103.
Conversation and composition at the intermediate level to supplement 201.

222. Second-Year Conversation and Composition
Winter. 2(2-0) 221.
Continuation of 221.

223. Second-Year Conversation and Composition
Spring. 2(2-0) 222.
Continuation of 222.

301. Readings in Modern Chinese Literature
Fall. 3(3-0) 203.
Selected short stories from authors of the twentieth century.

302. Readings in Modern Chinese Literature
Winter. 3(3-0) 301.
Selected essays from authors of the twentieth century.

303. Readings in Classical Chinese Literature
Spring. 3(3-0) 302.
Selections from the writings of the important philosophers, historians, and poets.

321. Conversation and Composition
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits. 203.
Directed topical conversation and practice in composition.

400H. Honors Work
Fall, Winter, Spring. Variable credit. Approval of department.

401. Survey of Chinese Literature
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits. Oral command and reading knowledge of Chinese language.
Survey of Chinese literature from earliest record to contemporary writings. Lectures and discussions conducted in Chinese. Most assigned readings in Chinese, some in English translation.

420. Oriental Literature in Translation
(C L 419.) Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits. Juniors or approval of department.
Development and influence of the ideas, forms and motifs of Far Eastern literatures in the literatures of the world.

431. Chinese Poetry
Fall. 3(3-0) Reading knowledge of Chinese.
Rise and development of Chinese poetry with particular attention to poetry of the T'ang Dynasty.