

- 813. Income Maintenance Programs**
Winter. 4(3-0) Approval of school.
Causes and social consequences of poverty. Nature and effectiveness of income transfer programs against poverty and insecurity. Integration with manpower programs. Relation between public and private programs.
- 815. Labor Force Behavior**
Spring. 4(4-0) LIR 809, EC 457 or approval of school. Interdepartmental with the Department of Economics.
Theoretical and empirical analysis of factors affecting labor force participation rates, unemployment levels, employment distribution, hours of work, and labor mobility. Concepts and measurement methods.
- 817. Methods of Program Evaluation**
Summer. 4(3-0) Approval of school.
Principles of benefit-cost analysis, cost-effectiveness analysis, and other methods of evaluation applicable to human resource programs.
- 823. Organizational Behavior in Labor and Industrial Relations**
Fall, Winter, Summer. 4(4-0) Approval of school. Interdepartmental with the Department of Sociology.
Analysis of why organizations, individuals and groups in unions, management and government act as they do in industrial relations situations with emphasis on sociological, psychological and cultural factors.
- 824. Employment Relations**
Fall, Winter, Spring. 4(3-0) Approval of school.
A social system approach to employment relations and employee utilization in private and public organizations.
- 825. Employee Compensation and Incentives**
Spring, Summer. 4(3-0) Approval of school.
Theory and practice of payment systems in private and public employment. Compensation and motivation. Job evaluation and performance review. Incentive plans, executive compensation, and fringe benefits.
- 826. Organizational Development**
Fall, Summer. 4(4-0) LIR 823 or approval of school.
Application of general systems and organizational behavior theories to the problems of organizational change and development in labor and industrial relations, with particular emphasis on the roles of leadership and change agents.
- 827. Quality of Work Life**
Winter. 4(4-0) LIR 823 or approval of school.
Quality of work life approaches to organizational and job design from the perspectives of human resource development, socio-technical systems, and labor-management relations in European, Japanese, and American contexts.
- 832. Data Sources in Labor and Industrial Relations**
Fall, Winter, Summer. 3(3-0) One undergraduate statistics course and approval of school.
Review evaluation and utilization of published data on labor and industrial relations. Methods of presentation, report writing. Index numbers, time series decomposition.
- 834. Survey Methods in Labor and Industrial Relations**
Fall, Summer. 3(3-0) One undergraduate statistics course and approval of school.
Design and conduct of data collection operations applied to labor and industrial relations. Sample design and sampling procedures. Design of questionnaires and interview schedules. Field operations. Data editing and coding.
- 841. Collective Bargaining in Public Employment**
Spring, Summer. 4(3-0) LIR 858, LIR 863, or approval of school.
History and current status of collective bargaining practices and governmental policies in the public sector.
- 854. Comparative Industrial Relations Systems**
Spring. 4(3-0) LIR 801, LIR 858, LIR 863, or approval of school.
Comparative analysis of industrial relations systems of countries in various stages of economic development.
- 857. Wage Theory**
Fall. 3(3-0) EC 324, EC 326 or approval of school. Interdepartmental with and administered by the Department of Economics.
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. Collective Bargaining**
Fall, Winter, Spring. 3(3-0) EC 305, or 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 with the Department of Economics.
Problems and issues in the administration and negotiation of collective bargaining agreements; includes both economic and noneconomic aspects of industrial relations policies and practices.
- 863. Law of Labor-Management Relations**
Fall, Winter, Spring. 4(4-0) Approval of school.
The National Labor Relations Act as amended: rights to organize and undertake concerted activity; legal framework of contract negotiations; representation of bargaining unit members; union member rights; proposed statutory changes.
- 865. Grievance Administration and Arbitration**
Winter, Spring. 4(3-0) LIR 858, LIR 863 or approval of school.
Grievance procedure and arbitration as the terminal step in the grievance process. Analysis of industrial common law.
- 868. Equal Employment Opportunity and Occupational Safety and Health Policy**
Spring, Summer. 4(4-0)
Major emphasis on government policies to promote equal employment opportunity, their scope and impact on collective bargaining. Attention also given to governmental policies to protect workers from substandard working conditions.
- 881. Special Topics in Labor and Industrial Relations**
Winter. 2(2-0) to 4(4-0) May reenroll for a maximum of 8 credits. Twelve graduate credits or approval of school.
Intensive analysis of special topics in collective bargaining, employment relations, or manpower.
- 895. Readings in Labor and Industrial Relations**
Fall, Winter, Spring, Summer. 2 or 3 credits. May reenroll for a maximum of 6 credits. Twenty credits in labor and industrial relations.
- 899. Master's Thesis Research**
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 9 credits. Approval of school.
- 911. Seminar in Manpower**
Summer. 4(3-0) Approval of school.
Critical study of research and policy on selected manpower problems.
- 923. Seminar in Organizational Behavior**
Winter. 4(4-0) Approval of school.
Research and policy on selected problems of organizational behavior in labor and industrial relations.
- 958. Seminar in Collective Bargaining and Trade Union Behavior**
Spring. 4(3-0) EC 858 or approval of school.
Critical study of selected contemporary areas and issues in collective bargaining.

LANDSCAPE ARCHITECTURE

See Urban Planning and Landscape Architecture.

LARGE ANIMAL CLINICAL SCIENCES LCS

(Name changed effective July 1, 1982. Formerly the Department of Large Animal Surgery and Medicine.)

College of Veterinary Medicine

- 412. Livestock Hygiene and Disease Control**
(LSM 412.) Spring. 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.
- 621. Integrative Clinical Problems**
(LSM 621.) Fall, Winter, Spring, Summer. 2(0-6) to 4(0-12) May reenroll for a maximum of 12 credits. Completion of 9 terms of professional program, approval of department.
Comprehensive problem-solving explorations of selected clinical diseases, either systems or species oriented, in large animals.

**Descriptions - Large Animal Clinical Sciences
of
Courses**

642. Special Problems-Research
(LSM 642.) Fall, Winter, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 8 credits. Completion of 9 terms of professional program, approval of department.
Research related to a large animal specialty.

644. Theriogenology Clerkship
Fall, Winter, Spring, Summer. 4 credits. Completion of term 9 of professional program, approval of department.
Provide hands-on clinical experience with diagnostic methods utilized in large animal reproduction.

650. Equine Clerkship I
(LSM 650.) Fall, Winter, Spring, Summer. 4 credits. Completion of 9 terms of professional program, approval of department.
Concepts and supervised practice in equine medicine. Emphasis on diagnosis, prognosis, treatment and disease prevention.

652. Equine Clerkship II
(LSM 652.) Fall, Winter, Spring, Summer. 4 credits. Completion of 9 terms of professional program, LCS 650, approval of department.
Advanced, supervised equine medicine and surgery.

654. Equine Clerkship III
(LSM 654.) Fall, Winter, Spring, Summer. 4 credits. Completion of 9 terms of professional program, LCS 652, approval of department.
In-depth, supervised equine medicine and surgery.

656. Large Animal Anesthesiology Clerkship
(LSM 656.) Fall, Winter, Spring, Summer. 4 credits. Completion of 9 terms of professional program, approval of department.
Concepts and supervised practice in large animal anesthesiology.

660. Ambulatory Clerkship
(LSM 660.) Fall, Winter, Spring, Summer. 4 credits. Completion of 9 terms of professional program, approval of department.
General medicine and surgery in large animals in field setting. Basic skills, diagnostic techniques and differential diagnosis. Clinical manipulative skills in theriogenology and minor surgery.

662. Introduction to Herd Health Clerkship
(LSM 662.) Fall, Winter, Spring, Summer. 4 credits. Completion of 9 terms of professional program, LCS 660, approval of department.
Concepts and supervised practice in herd health programs. Emphasis on developing programs for food animal species and equine species.

664. Dairy Herd Health Clerkship
(LSM 664.) Fall, Winter, Spring, Summer. 4 credits. Completion of 9 terms of professional program, approval of department.
Dairy farm and herd health management. Record keeping, general management, housing, nutrition, and mastitis control will be emphasized.

666. Equine Herd Health Clerkship
(LSM 666.) Winter, Spring, Summer. 4 credits. Completion of 9 terms of professional program, LCS 660, approval of department.
Establishing and maintaining herd health programs for equine operations. Reproduction, parasite control, immunization, and diagnostic medicine and surgery in the field.

670. Food Animal Clerkship I
(LSM 670.) Fall, Winter, Spring, Summer. 4 credits. Completion of 9 terms of professional program, approval of department.
Concepts and supervised practice in food animal medicine. Emphasis on diagnosis, prognosis, treatment and disease prevention.

672. Food Animal Clerkship II
(LSM 672.) Fall, Winter, Spring, Summer. 4 credits. Completion of 9 terms of professional program, LCS 670, approval of department.
Advanced, supervised food animal surgery and medicine.

674. Preceptorial Clerkship
(LSM 674.) Fall, Winter, Spring, Summer. 8(0-24) to 16(0-48) May reenroll for a maximum of 16 credits. Completion of 9 terms of professional program, approval of department. Students may not receive credit in both VM 610 and LCS 674.
Applied large animal clinical science. Students participate in all activities in assigned private practices tutored by practitioners with adjunct faculty appointments.

809. Problems in Large Animal Surgery
(LSM 809.) Fall, Winter, Spring, Summer. Variable credit.
Applied large animal clinical science. Students participate in all activities in assigned private practices tutored by practitioners with adjunct faculty appointments.

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

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

825. Fundamental Biomedical Experimental Techniques
(LSM 825.) Fall. 3(2-3) Students enrolled in a graduate degree program, approval of department.
Fundamentals of humane treatment of animals, anesthesia, aseptic techniques, instrumentation, suture materials and patterns, tissue handling and woundhealing for experimental animal research.

899. Master's Thesis Research
(LSM 899.) Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 18 credits. Students enrolled in a graduate degree program, approval of department.
Research on thesis problems.

921. Pathology of Nutritional and Metabolic Diseases
(HNF 921., LSM 921.) Spring of odd-numbered years. 4(3-2) Approval of department; PTH 404 or ANT 420. ANS 525, BCH 452, HNF 462 recommended. Interdepartmental with Human Nutrition and Foods.
Development, physiopathology and morphologic pathology of nutritional and metabolic diseases including carbohydrate, protein, fatty acid, vitamin and mineral deficiencies, their experimental induction and their medical or economic significance.

921. Pathology of Nutritional and Metabolic Diseases
(HNF 921., LSM 921.) Spring of odd-numbered years. 4(3-2) Approval of department; PTH 404 or ANT 420. ANS 525, BCH 452, HNF 462 recommended. Interdepartmental with Human Nutrition and Foods.
Development, physiopathology and morphologic pathology of nutritional and metabolic diseases including carbohydrate, protein, fatty acid, vitamin and mineral deficiencies, their experimental induction and their medical or economic significance.

LATIN

See Romance and Classical Languages.

**LINGUISTICS AND GERMANIC
SLAVIC, ASIAN AND
AFRICAN LANGUAGES**

(Name changed September 1, 1981. Formerly the Department of Linguistics and Oriental and African Languages and the Department of German and Russian.)

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 reenroll for a maximum of 18 credits. Approval of department.
Work in areas outside regular course offerings.

360. World Literature in English
(315.) Fall. 3(3-0) Interdepartmental with and administered by the Department of English.
Representative works, not from England or the United States, which were written originally in English, especially the English literature of present or former British Commonwealth nations, and nations from the Middle East and Africa.

361. World Literature in English Translation
(316.) Winter. 3(3-0) Interdepartmental with the Department of English.
Significant and characteristic works of the Orient, the Middle East, and Africa in English translation.

362. Genres and Themes in World Literature
(317.) Spring. 3(3-0) Interdepartmental with and administered by the Department of English.
Work will center each term round a single literary genre, type or theme. Typical examples: The Quest, Literature of Revolt, Satire. Literary examples will be selected from several national literatures.

499. Special Projects
Fall, Winter, Spring, Summer. Variable credit. May reenroll 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(4-1) May reenroll for AFR 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(4-1) May reenroll for AFR 101-102-103 sequence in more than one African language. AFR 101.
Continuation of AFR 101.