

**Descriptions – Justin Morrill College  
of  
Courses**

**434. Critical Issues in Dance**  
*Winter. 3(3-0) Seniors in Dance Field of Concentration or approval of college.*  
Development of aesthetic values and opinions through analysis of critical issues in dance. Solidification of individual dance philosophies.

**491H. Perspectives in the Social Sciences and Humanities**  
*Fall, Winter, Spring. 2 to 6 credits. May reenroll for a maximum of 12 credits if different topic is taken. Juniors, approval of Honors College, or approval of instructor. Interdepartmental with the colleges of Arts and Letters and Social Science and administered by the College of Arts and Letters.*

An integration of subject matter and methodologies of several disciplines as they are relevant to particular topic areas.

**497. Senior Project**  
*Fall, Winter, Spring. 3 to 5 credits. Seniors.*

Project stressing integration and synthesis of a student's field of concentration under the guidance of the student's adviser.

**498. Senior Thesis**  
*Fall, Winter, Spring. 3 to 5 credits. Seniors.*

Thesis stressing integration and synthesis of a student's field of concentration under the supervision of a faculty member.

**499. Senior Seminar**  
*Fall, Winter, Spring. 3 credits. Seniors.*  
Seminar on selected topics, stressing synthesis and integration of student's area of concentration.

**LABOR AND INDUSTRIAL RELATIONS**

**LIR**

**College of Social Science**

**801. Labor in Twentieth Century America**  
*Fall, Winter. 4(3-0) Approval of school.*  
Review of the history of American labor and its evolving structure and an analysis of current problems facing unions.

**IDC. Seminar in Industrial Relations**  
*For course description, see Interdisciplinary Courses.*

**809. Labor Markets**  
*Fall, Winter. 4(4-0) Approval of school.*  
Review of labor market structures and processes; forces affecting work and wages; and public policy on manpower development and utilization and on income maintenance.

**811. Manpower Programs and Institutions**  
*Winter. 4(4-0) Approval of school.*  
Role and effectiveness of the public employment service, vocational and apprenticeship programs, retraining and vocational rehabilitation activities, etc., as instruments of an active manpower policy.

**813. Income Maintenance Programs**  
*Fall. 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**  
*Winter. 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. 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. 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. 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**  
*Spring. 4(4-0) 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.

**832. Data Sources in Labor and Industrial Relations**  
*Fall, Winter, Spring. 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, Spring. 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**  
*Winter. 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 320, EC 324, 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. Industrial Relations**  
*Winter. 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**  
*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. 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. Advanced Seminar in Labor and Industrial Relations**  
*Spring. 4(4-0) May reenroll 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 reenroll for a maximum of 8 credits. Approval of school.
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**  
Fall. 4(3-0) Approval of school.  
Critical study of research and policy on selected manpower problems.
923. **Seminar in Organizational Behavior**  
Spring. 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 SURGERY AND MEDICINE LSM

### College of Veterinary Medicine

412. **Livestock Hygiene and Disease Control**  
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.
- IDC. **The Impact of Animal Resource Management Upon the World's Developing Nations**  
For course description, see *Interdisciplinary Courses*.
621. **Integrative Clinical Problems**  
Fall, Winter, Spring, Summer. 2(0-6) to 4(0-12) May reenroll for a maximum of 12 credits. Approval of department.  
Comprehensive problem-solving explorations of selected clinical diseases, either systems or species oriented, in large animals.
642. **Special Problems-Research**  
Fall, Winter, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 8 credits. LSM 650 or LSM 660 or LSM 670, approval of department.  
Research related to a large animal specialty.
650. **Equine Clerkship I**  
Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.  
Concepts and supervised practice in equine medicine. Emphasis on diagnosis, prognosis, treatment and disease prevention.
652. **Equine Clerkship II**  
Fall, Winter, Spring, Summer. 4 credits. LSM 650 and approval of department.  
Advanced, supervised equine medicine and surgery.
654. **Equine Clerkship III**  
Fall, Winter, Spring, Summer. 4 credits. LSM 652 and approval of department.  
In-depth, supervised equine medicine and surgery.
656. **Large Animal Anesthesiology Clerkship I**  
Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, LSM 650, approval of department.  
Concepts and supervised practice in large animal anesthesiology.
660. **Ambulatory Clerkship I**  
Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.  
Concepts and supervised practice in ambulatory clinics. Emphasis is on diagnosis, prognosis, treatment and disease prevention.
662. **Ambulatory Clerkship II**  
Fall, Winter, Spring, Summer. 4 credits. LSM 660, approval of department.  
Advanced, supervised ambulatory clinics.
664. **Ambulatory Clerkship III**  
Fall, Winter, Spring, Summer. 4 credits. LSM 662, approval of department.  
In-depth, supervised farm animal medicine and surgery.
666. **Herd Health Clerkship I**  
Fall, Winter, Spring, Summer. 4 credits. LSM 660, approval of department.  
Concepts and supervised procedures for preventing health problems in herds maintained for food and fiber production.
670. **Food Animal Clerkship I**  
Fall, Winter, Spring, Summer. 4 credits. Satisfactory completion of term 8 of the professional veterinary curriculum, approval of department.  
Concepts and supervised practice in food animal medicine. Emphasis on diagnosis, prognosis, treatment and disease prevention.
672. **Food Animal Clerkship II**  
Fall, Winter, Spring, Summer. 4 credits. LSM 670, approval of department.  
Advanced, supervised food animal surgery and medicine.
674. **Preceptorial Clerkship**  
(603.) Fall, Winter, Spring, Summer. 8(0-24) to 16(0-48) May reenroll for a maximum of 16 credits. LSM 660, LSM 670, approval of department.  
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**  
Fall, Winter, Spring, Summer. Variable credit.
811. **Problems in Large Animal Medicine**  
Fall, Winter, Spring, Summer. Variable credit.
813. **Seminar**  
Fall, Winter, Spring. 1 credit.
899. **Research**  
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 18 credits. Approval of department.  
Research on thesis problems.
921. **Pathology of Nutritional and Metabolic Diseases**  
Summer of even-numbered years. 4(3-2) Approval of department; PTH 404 or ANT 420. ANS 525, BCH 452, HNF 462 recommended. Interdepartmental with the departments of Animal Husbandry and Pathology and Human Nutrition and Foods. Administered by 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 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 reenroll for a maximum of 18 credits. Approval of department.  
Work in areas outside regular course offerings.
315. **World Literature in English**  
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.
316. **World Literature in English Translation**  
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.