855

Labor and Management Relations
Spring. 2(2-0) Interdepartmental with Executive MBA Program. Administered by Business. R: Open only to students in the Executive M.B.A. Program. SA: MGT 855

Industrial relations in American union and management collective bargaining. Compensation issues. Grievance concepts and arbitration. Dispute resolu-

858 **Collective Bargaining**

Fall, Summer. 3(3-0) R: Open only to students in the School of Labor and Industrial Relations

Theory and practice of collective bargaining. Wages, benefits, seniority, grievances, arbitration, and labormanagement committees. Legal, economic, technological, and historical contexts.

Negotiation and Conflict Resolution

Fall, Spring. 3(3-0) P:M: (LIR 823 or LIR 858) R: Open only to students in the School of Labor and Industrial Relations and students in the Interdisciplinary Ph.D. program in Social Science with a concentration in Industrial Relations and Human Resources.

Negotiation and conflict resolution in employment settings. Use of experiential simulations to develop bargaining styles and interpersonal process skills.

Law of Labor Management Relations

Fall, Spring. 3(3-0) R: Open only to students in the School of Labor and Industrial Rela-

Legal framework for contract negotiations and administration. National Labor Relations Act as amended. Right to organize and undertake concerted activity. Strikes and lockouts. Unfair labor practices.

865 Grievance Administration and Arbitration Spring. 3(3-0) P:NM: (LIR 858 or LIR 863)

R: Open only to students in the School of Labor and Industrial Relations.

Grievance procedure and arbitration as the terminal step in the grievance process under collective bargaining. Grievance procedures in non-union employment settings.

Equal Employment Opportunity and

Occupational Safety and Health Policy Spring, Summer. 3(3-0) R: Open only to students in the School of Labor and Industrial Relations.

Administrative policies and judicial decisions promoting equal employment opportunity. Analysis and review of governmental policies protecting workers from unsafe working conditions. Implications for employers and unions.

890 Readings in Labor Relations and Human Resources Fall, Spring, Summer. 1 to 6 credits. A stu-

dent may earn a maximum of 6 credits in all enrollments for this course, P:NM: 15 credits in LIR. R: Open only to students in the School of Labor and Industrial Relations.

Individual readings under faculty guidance.

891 Special Topics in Labor Relations and **Human Resources**

Fall. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to students in the School of Labor and Industrial Relations.

Special topics in collective bargaining, human resources, employment, and training.

Master's Thesis Research 200

Fall, Spring, Summer. 0(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P:NM: 9 graduate credits. R: Open only to students in the School of Labor and Industrial Relations.

Master's thesis research.

Seminar in Organizational Behavior and **Human Resources**

Fall of odd years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P:NM: (LIR 823 and LIR 824) R: Open only to students in the School of Labor and Industrial Relations.

Research and policy analysis of selected topics in organizational behavior and human resources in labor and industrial relations.

Seminar in Collective Bargaining and **Labor Unions**

Spring of odd years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P:NM: (LIR 801 and LIR 858) R: Open only to students in the School of Labor and Industrial Relations.

Research and policy analysis of selected topics in collective bargaining and labor unions.

LANDSCAPE **ARCHITECTURE** LA

Department of Geography College of Social Science

Introduction to Landscape Architecture Fall. 3(3-0)

Environmental issues and problem-solving strat egies within landscape architecture.

Graphic Communication

Fall. 4(2-4) R: Open only to majors in Landscape Architecture or Urban and Regional Planning or Horticulture.

Fundamentals of graphics including freehand and technical drafting, lettering, sketching, perspective drawing, and delineation and rendering. Principles of design and field drawing techniques. Also introduced: plan, section, elevation and basic symbols, references, methods of presentation and graphic reproduction.

Applied Design Fundamentals 240

Spring. 4(2-4) P:NM: (LA 220) or approval of department. R: Open only to majors in Landscape Architecture or Horticulture or Crop and Soil Sciences or Urban and Regional Planning.

Application of the principles and theory of design in advanced two-and three-dimensional represent a-

270 Landscape Design History

Spring. 3(3-0)

History of landscape architecture. Landscape development styles, design forms, and organization.

311 Landscape Design and Management

Specifications
Spring. 4(3-2) Interdepartmental with Horticulture. Administered by Department of Horticulture. P:M: (HRT 211 and HRT 212 or concurrently)

Landscape design techniques, spatial organization, plant selection, plant and site interaction. Relationship between design, construction and maintenance. Preparation of planting and maintenance specifica-

330 Site Construction: Materials and Methods Fall. 4(2-4) P:NM: (LA 220) R: Open only to

majors in Landscape Architecture, Horticulture or Crop and Soil Sciences or Park, Recreation and Tourism Resources.

Elements and principles of grading, drainage, construction materials and methods.

Site Engineering
Spring. 4(2-4) P:NM: (LA 330) R: Open only to majors in Landscape Architecture or Horticulture.

Principles and procedures for landscape engineering of site structures and systems such as road alignment, storm and subsurface drainage. Site utilities

Basic Site Design I

Fall. 4(2-4) P:NM: (LA 240) and (GEO 221 and HED 240) R: Open only to majors in Landscape Architecture or Horticulture or Crop and Soil Sciences or Urban and Regional Planning.

Introduction to the design process. Focus on program development, inventory, and analysis.

Basic Site Design II Spring. 5(2-6) P:NM: (LA 341) R: Open only to majors in Landscape Architecture or Horticulture or Crop and Soil Sciences or Urban

and Regional Planning.

Development of design solutions for individual projects at a small scale. Focus on simple design programs and problems of limited complexity.

Introduction to Zoo and Aquarium Science

Spring. 3(3-0) Interdepartmental with Zoology; Fisheries and Wildlife; Veterinary Medicine. Administered by Department of Zoology. P:M: (BS 110 or LBS 144 or LBS

Fundamentals of zoo and aquarium operations including research, interpretation, design, nutrition, captive breeding, conservation, ethics and management.

390 Landscape Architecture Field Studies

Fall, Spring. 2 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to juniors or seniors in Landscape Architecture. Approval of department.

Field observation and analysis of selected professional offices, design and planning projects, natural areas, or places of historic interest. Background familiarization of selected study sites. Evaluation and synthesis of study experiences.

420

Advanced Graphic Communication Spring. 4(1-6) P:NM: (LA 342) R: Open only to majors in Landscape Architecture.

Methods of 3-D visualization in the design process.

437 Design Implementation

Fall. 3(0-6) P:NM: (LA 331) R: Open only to seniors in the Landscape Architecture or Horticulture major. C: LA 443 concurrently, LA 480 concurrently.

Development of a complete package of contract documents for a representative site development project, including construction plans, bid documents, and specifications.

Golf Course Planning and Design

Fall of even years. 3(3-0) Interdepartmental with Urban Planning. Administered by Department of Geography. P:NM: (LA 342) R: Open only to seniors or graduate students in Urban and Regional Planning or Urban and Regional Planning-Urban Studies or Landscape Architecture.

History, planning, and design of the golf course as a component of the community. Environmental, regulatory, technical, and financing issues.

Community Project Design I Fall. 5(2-6) P:NM: (LA 342) R: Open only to majors in Landscape Architecture or Urban and Regional Planning. Approval of department. C: LA 437 concurrently, LA 480 concurrently.

Development of design solutions for medium scale site development projects focusing on moderately complex design programs and problems.

Community Project Design II

Spring. 5(2-6) P:NM: (LA 443) R: Open only to majors in Landscape Architecture.

The community systems planning process. Application of multiple use theory and techniques. Integration of project demands and community infrastruc-

445

Advanced Project Design Spring. 4(0-8) P:NM: (LA 444 and LA 480) R: Open only to seniors in Landscape Architecture.

Application of design theory to complex site devdopment projects in community settings. Interaction of human activities, sites, and end uses. Use of community feedback.

Regional Environmental Design 446

Fall. 3(0-6) P:NM: (LA 444) R: Open only to seniors in Landscape Architecture or approval of department.

Theory and tools in regional environmental design and their application to site facilities, assignment of land use, and management of landscape structure with special emphasis on spatial identity, visual quality, and environmental modeling. Human dimensions to landscape change.

Professional Practice (W)

Fall. 3(2-2) P:M: Completion of Tier I writing requirement. R: Open only to seniors or graduate students in Landscape Architecture. C: LA 437 concurrently, LA 443 concurrently.

Principles and procedures of professional office practice. Organization and management of offices, personnel, and projects. Ethical and legal issues.

Historic Preservation and Preservation 483 Planning in the U.S.

Fall. 4(4-0) Interdepartmental with Urban Planning. Administered by Department of Geography. R: Not open to freshmen or sophomores. Approval of department.

History and philosophy of the preservation of buildings, structures, and objects significant to the heritage of this nation. Preservation as a planning tool for local governments.

490

Independent Study
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 7 credits in all enrollments for this course. R: Open only to students in Landscape Architecture. Approval of department.

Individual investigation of landscape architecture topics in the interest areas of the Landscape Architecture faculty.

Senior Research Seminar (W)

Spring. 3(2-2) P:M: Completion of Tier I writing requirement. R: Open only to seniors or graduate students in Landscape Architec-

Contemporary issues of relevance to the profession.

Internship in Landscape Architecture

Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to seniors in Landscape Architecture or approval of department.

Supervised experience in approved public agencies and professional offices.

Special Topics in Landscape Architecture

Fall, Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to juniors or seniors in Landscape Architecture or approval of department.

Selected subjects in landscape architecture derived from emerging issues and topics.

498 Internship in Zoo and Aquarium Science

Fall, Spring, Summer. 3 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. Interdepartmental with Zoology; Fisheries and Wildlife. Administered by Department of Zoology. R: Open only to juniors or seniors. Approval of department.

Application of zoological experience in a zoo or aquarium setting outside the university.

LARGE ANIMAL **CLINICAL SCIENCES** LCS

Department of Large Animal Clinical Sciences College of Veterinary Medicine

Hazard Analysis and Critical Control Points in Production Medicine

Spring. 2(2-0) R: Not open to freshmen. Not open to graduate-professional students in the College of Veterinary Medicine.

Animal disease and health in relation to livestock production, food safety and public health. Production medicine and the ability to develop hazard analysis critical control points (HACCP) strategies for animal disease management.

610 **Problems in Large Animal Clinical** Sciences

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine or approval of department.

Advanced clinical training in a problem related to large animal clinical sciences.

Research Problems in Large Animal 611

Clinical Sciences
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine or approval of department.

Research related to a large animal specialty

Off-Campus Problems in Large Animal Clinical Sciences

Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Completion of Semester 5 of the graduate-professional program in the College of Veterinary Medicine. Approval of department.

Advanced clinical-phase training in an off-campus setting in a specific problem related to large animal clinical sciences, for which on-campus training is not available. The students specific training objective will be developed and approved from both an oncampus liaison and the off-campus liaison.

Equine Clinical Clerkship I 620

Fall, Spring, Summer. 3 credits. R: Completion of semester 5 of the graduateprofessional program in the College of Veterinary Medicine.

Supervised practice in equine medicine and surgery. Diagnosis, prognosis, treatment, and disease prevention. Required clerkship.

Equine Practice Clerkship

Fall, Spring, Summer. 3 credits. R: Completion of semester 5 of the graduateprofessional program in the College of Veterinary Medicine.

Supervised, off-campus experience in an assigned veterinary practice. Regular equine farm calls. Afterhours emergencies. Veterinary practice management

622 **Equine Clinical Clerkship II**

Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P:NM: (LCS 620) R: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Advanced general training in equine medicine and surgery.

623 **Equine Musculoskeletal Diseases** Clerkship

Fall, Spring, Summer. 3 credits. R: Completion of semester 5 of the graduateprofessional program in the College of Veterinary Medicine.

Techniques and procedures used for the diagnosis and management of equine musculoskeletal diseases. Hospital and field cases.

Equine Theriogenology Clerkship 624

Fall, Spring, Summer. 3 credits. R: Completion of semester 5 of the graduateprofessional program in the College of Veterinary Medicine.

Emphasis on diagnostic methods utilized in equine reproduction.