Labor and Industrial Relations–LIR

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

858  Collective Bargaining
Fall, Summer. 3(3-0) R: Open only to stu- dents in the School of Labor and Industrial Relations.
Theory and practice of collective bargaining. Wages, benefits, seniority, grievances, arbitration, and labor-management committees. Legal, economic, techno- logical, and historical contexts.

860  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 stu- dents in the Interdisciplinary Ph.D. program in Social Science with a concentration in In- dustrial Relations and Human Resources. Negotiation and conflict resolution in employment settings. Use of experiential simulations to develop bargaining styles and interpersonal process skills.

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

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 bar- gaining. Grievance procedures in non-union em- ployment settings.

868  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 Indus- trial Relations.
Administrative policies and judicial decisions pro- moting 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 re- sources, employment, and training.

899  Master's Thesis Research
Fall, Spring. Summer. 0(3-0) A student may earn a maximum of 6 credits in all enroll- ments 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.

992A  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.

992B  Seminar in Collective Bargaining and Labor Unions
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 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

820  Introduction to Landscape Architecture
Fall. 3(3-0)
Environmental issues and problem-solving strate- gies within landscape architecture.

220  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 intro- duced: plan, section, elevation and basic sym- bols, references, methods of presentation and graphic reproduction.

240  Applied Design Fundamentals
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 Re- gional Planning.
Application of the principles and theory of design in advanced two-and three-dimensional representa- tion.

270  Landscape Design History
Spring. 3(3-0)
History of landscape architecture. Landscape devid- oment styles, design forms, and organization.

311  Landscape Design and Management
Specifications
Spring. 4(3-2) Interdepartmental with Horti- culture. Administered by Department of Horti- culture. P.M: (HRT 211 and HRT 212 or concurrently)
Landscape design techniques, spatial organization, plant selection, plant and site interaction. Relation- ship between design, construction and maintenance. Preparation of planting and maintenance specifica- tions.

330  Site Construction: Materials and Methods
Fall. 4(2-4) P.NM: (LA 220) R: Open only to majors in Landscape Architecture, Horti- culture or Crop and Soil Sciences or Park, Recreation and Tourism Resources. Elements and principles of grading, drainage, con- struction materials and methods.

331  Site Engineering
Spring. 4(2-4) P.NM: (LA 330) R: Open only to majors in Landscape Architecture or Hor- ticulture. Principles and procedures for landscape engineer- ing of site structures and systems such as road alignment, storm and subsurface drainage. Site utilities.

341  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 Re- gional Planning. Introduction to the design process. Focus on pro- gram development, inventory, and analysis.

342  Basic Site Design II
Spring. 5(2-0) P.NM: (LA 341) R: Open only to majors in Landscape Architecture or Hor- ticulture or Crop and Soil Sciences or Urban and Regional Planning. Development of design solutions for individual pro- jects at a small scale. Focus on simple design pro- grams and problems of limited complexity.

359  Introduction to Zoo and Aquarium Science
Spring. 3(3-0) Interdepartmental with Zool- ogy; Fisheries and Wildlife; Veterinary Medicine. Administered by Department of Zoology. P.M: (BS 110 or LBS 144 or LBS 148H)
Fundamentals of zoo and aquarium operations including research, interpretation, design, nutrition, captive breeding, conservation, ethics and man- agement.

390  Landscape Architecture Field Studies
Fall, Spring. 2 to 4 credits. A student may earn a maximum of 6 credits in all enroll- ments for this course. R: Open only to jun- iors or seniors in Landscape Architecture. Approval of department.
Field observation and analysis of selected profes- sional 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(1-0) P.NM: (LA 342) R: Open only to majors in Landscape Architecture. Methods of 3-D visualization in the design process.
347 Design Implementation  
Fall. 3(0-6) P:NМ.: (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.

349 Golf Course Planning and Design  
Fall of even years. 3(3-0) Interdepartmental with Urban Planning. Administered by Department of Geography. P:NМ.: (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.

437 Community Project Design I  
Fall. 5(2-6) P:NМ.: (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.

438 Community Project Design II  
Spring. 5(2-6) P:NМ.: (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 infrastructure.

440 Advanced Project Design  
Spring. 4(0-6) P:NМ.: (LA 444 and LA 480) R: Open only to seniors in Landscape Architecture.  
Application of design theory to complex site development projects in community settings. Interaction of human activities, sites, and end uses. Use of community feedback.

441 Regional Environmental Design  
Fall. 3(0-6) P:NМ.: (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.

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

483 Historic Preservation and Preservation 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.

492 Senior Research Seminar (W)  
Spring. 3(2-2) P: Completion of Tier I writing requirement. R: Open only to seniors or graduate students in Landscape Architecture.  
Contemporary issues of relevance to the profession.

493 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.

494 Special Topics in Landscape Architecture  
Fall, Spring. 3(0-6) 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

412 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.