

**Descriptions—Labor and Industrial Relations
of
Courses**

890. Readings in Labor Relations and Human Resources

Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: 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.

899. Master's Thesis Research

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

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: 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

Spring of odd years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P: 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**

200. Introduction to Landscape Architecture

Fall. 3(3-0)
Environmental issues and problem-solving strategies within landscape architecture.

220. Graphic Communication

Fall. 4(2-4) R: Open only to students in Landscape Architecture, Urban and Regional Planning, and 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.

240. Applied Design Fundamentals

Spring. 4(2-4) R: Open only to majors in Landscape Architecture, Horticulture, Crop and Soil Sciences, and Urban Planning.
Application of the principles and theory of design in advanced two-and three-dimensional representation.

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 Horticulture. P: HRT 211; 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 specifications.

330. Site Construction: Materials and Methods

Fall. 4(2-4) P: LA 220. R: Open only to majors in Landscape Architecture, Horticulture, Crop and Soil Sciences, and Park and Recreation Resources.
Elements and principles of grading, drainage, construction materials and methods.

331. Site Engineering

Spring. 4(2-4) P: LA 330. R: Open only to majors in Landscape Architecture and Horticulture.
Principles and procedures for landscape engineering 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: LA 240. R: Open only to students in Landscape Architecture, Horticulture, Crop and Soil Sciences, and Urban Planning.
Introduction to the design process. Focus on program development, inventory, and analysis.

342. Basic Site Design II

Spring. 5(2-6) P: LA 341. R: Open only to students in Landscape Architecture, Horticulture, Crop and Soil Sciences, and Urban Planning.
Development of design solutions for individual projects at a small scale. Focus on simple design programs and problems of limited complexity.

369. Introduction to Zoo and Aquarium Science

Spring. 3(3-0) Interdepartmental with Park, Recreation and Tourism Resources; Zoology; Fisheries and Wildlife; and Veterinary Medicine. Administered by Zoology. P: (BS 110 or LBS 144 or LBS 148H)
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 and 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: 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: LA 331, LA 480. R: Open only to seniors in the 5th year of the Landscape Architecture major and to seniors in Horticulture.
Development of a complete package of contract documents for a representative site development project, including construction plans, bid documents, and specifications.

439. Golf Course Planning and Design

Fall of even years. 3(3-0) Interdepartmental with Urban Planning. Administered by Urban Planning. P: UP 344 or LA 342. R: Open only to seniors and 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.

443. Community Project Design I

Fall. 5(2-6) P: LA 342. R: Open only to students in Landscape Architecture with an urban design cognate and to students in Urban Planning.
Development of design solutions for medium scale site development projects focusing on moderately complex design programs and problems.

444. Community Project Design II

Spring. 5(2-6) P: LA 443. R: Open only to students in Landscape Architecture.
The community systems planning process. Application of multiple use theory and techniques. Integration of project demands and community infrastructure.

445. Advanced Project Design

Spring. 4(0-8) P: LA 444, LA 480. R: Open only to juniors and 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.

446. Regional Environmental Design

Fall. 3(0-6) P: LA 444 R: Open only to seniors in Landscape Architecture. 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: LA 443. R: Open only to seniors and graduate students in Landscape Architecture. Completion of Tier I writing requirement.

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

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

Fall. 4(4-0) Interdepartmental with Urban Planning; and History of Art. Administered by Urban Planning. R: Not open to freshmen and 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.

489. Seminar in Zoo and Aquarium Science

Fall, Spring. 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course. Interdepartmental with Zoology; Park, Recreation and Tourism Resources; and Fisheries and Wildlife. Administered by Zoology. R: Approval of department.

Scientific writing and oral presentations related to zoo and aquarium studies.

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) R: Open only to seniors and graduate students in Landscape Architecture. Completion of Tier I writing requirement.

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: 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(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to juniors and seniors in Landscape Architecture. 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 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Zoology; and Fisheries and Wildlife. Administered by Zoology. R: Open only to juniors or seniors. Approval of department.

Experience in applying 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 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.

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

611. Research 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: Open only to graduate-professional students in the College of Veterinary Medicine. Approval of department.

Research related to a large animal specialty

612. Problems in Production Medicine

Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: LCS 630 or LCS 631; approval of department. R: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Production medicine problems of livestock health management. Course offered through a consortium with the universities of Illinois, Florida, California, and Nebraska, and Kansas State University, work to be completed at one of those universities.

620. Equine Clinical Clerkship I

Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: Completion of semester 5 of the professional veterinary program. R: Open only to graduate-professional students in College of Veterinary Medicine. Not open to students with credit in LCS 650.

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

621. Equine Practice Clerkship

Fall, Spring, Summer. 3 credits. R: Completion of semester 5 of the professional veterinary program. Supervised, off-campus experience in an assigned veterinary practice. Regular equine farm calls. After-hours emergencies. Veterinary practice management.

622. Equine Clinical Clerkship II

Fall, Spring, Summer. 3 credits. P: LCS 620 or LCS 621. R: Completion of semester 5 of the professional veterinary program. Open only to graduate-professional students in College of Veterinary Medicine. Not open to students with credit in LCS 654.

Advanced general training in equine medicine and surgery.

623. Equine Musculoskeletal Diseases Clerkship

Fall, Spring, Summer. 3 credits. P: Completion of semester 5 of the professional veterinary program. R: Open only to graduate-professional students in College of Veterinary Medicine. Not open to students with credit in LCS 651.

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

624. Equine Theriogenology Clerkship

Fall, Spring, Summer. 3 credits. R: Open only to graduate-professional students in the College of Veterinary Medicine. Not open to students with credit in LCS 644.

Emphasis on diagnostic methods utilized in equine reproduction.

625. Equine Herd Health Clerkship

Fall, Spring, Summer. 3 credits. P: LCS 621. R: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine. Not open to students with credit in LCS 666.

Establishing and maintaining equine herd health programs. Reproduction, parasite control, immunization, and diagnostic medicine and surgery in the field.

626. Advanced Equine Surgery

Fall, Spring, Summer. 3 credits. P: LCS 620 or LCS 621; LCS 622. R: Completion of semester 5 of the professional veterinary program. Open only to graduate-professional students in College of Veterinary Medicine.

Advanced, in-depth training in overall surgical management of equine surgical patients. Emphasis on breeds used for racing or sport.

627. Advanced Equine Medicine

Fall, Spring, Summer. 3 credits. P: LCS 620 or LCS 621; LCS 622. R: Completion of semester 5 of the professional veterinary program. Open only to graduate-professional students in College of Veterinary Medicine.

Advanced, in-depth training in the medical management of equine patients. Emphasis on neonates.

628. Techniques in Equine Anesthesia and Surgery

Fall, Spring, Summer. 3 credits. P: LCS 620 or LCS 621; LCS 622, LCS 640. R: Completion of semester 5 of the professional veterinary program. Open only to graduate-professional students in College of Veterinary Medicine.

Advanced equine anesthesia and surgery. Preoperative care of University-owned equids, induction of anesthesia, and performance of minor surgical procedures.