

341 Basic Site Design I
Fall. 4(2-4) RB: (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.

342 Basic Site Design II
Spring. 5(2-6) RB: (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.

369 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 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 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) RB: (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) RB: (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.

439 Golf Course Planning and Design

Fall of even years. 3(3-0) Interdepartmental with Urban Planning. Administered by School of Planning, Design and Construction. RB: (LA 342) R: Open only to majors in Urban and Regional Planning.

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) RB: (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.

444 Community Project Design II

Spring. 5(2-6) RB: (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.

445 Advanced Project Design

Spring. 4(0-8) RB: (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, situs, and end uses. Use of community feedback.

446 Regional Environmental Design

Fall. 3(0-6) RB: (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: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.

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:M: 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(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.

816 Environmental Design Theory

Fall. 3(3-0) Interdepartmental with Horticulture; Park, Recreation and Tourism Resources; Human Environment and Design. RB: Undergraduate design degree recommended.

Differences between normative theories, scientific theories, models, and constructs. Exploration of normative theories related to thesis or practicum.

817 Environmental Design Studio

Spring. 3(0-6) Interdepartmental with Horticulture; Park, Recreation and Tourism Resources; Human Environment and Design. P:M: (LA 816 and LA 883) RB: Undergraduate design degree.

Development of a student-selected environmental design project in a collaborative setting.

883 Environmental Design Seminar

Fall. 3(3-0) Interdepartmental with Horticulture; Park, Recreation and Tourism Resources; Human Environment and Design. RB: Undergraduate design degree.

Examination of the breadth of environmental design projects. Literature review of focused projects. Development of practicum or thesis proposals.

898 Master's Thesis Practicum

Fall, Spring, Summer. 3 to 9 credits. A student may earn a maximum of 9 credits in all enrollments for this course. RB: Undergraduate design degree. R: Open only to graduate students in Environmental Design.

Detailed professional application of a student-selected environmental design project.

899 Master's Thesis Research

Fall, Spring, Summer. 3 to 9 credits. A student may earn a maximum of 9 credits in all enrollments for this course. RB: Undergraduate design degree. R: Open only to graduate students in Environmental Design.

Preparation and completion of an independent research thesis.

LABOR AND INDUSTRIAL RELATIONS LIR

School of Labor and Industrial Relations

College of Social Science

801 Trade Union History, Structure, and Administration

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

History of American unions. Theories of unionism. Union structure, government and democracy. Role of unions in society and politics. Legal requirements of unions. Current union problems.

Labor and Industrial Relations—LIR

- 809 Labor Markets**
Fall, Spring. 3(3-0) RB: (EC 201) R: Open only to MLRHR students and students in the Interdisciplinary Ph.D. program in Social Science with a concentration in Industrial Relations and Human Resources.
Labor market structures and dynamics. Factors affecting work, wages, and occupational choices. Public and private policies on human resource development and utilization. Designed for human resource practitioners.
- 811 Training and Development**
Fall, Spring. 3(3-0) R: Open only to graduate students in the Labor Relations and Human Resources, Labor Relations and Human Resources-Urban Studies major, and students in the Interdisciplinary Ph.D. program in Social Science with a concentration in Industrial Relations and Human Resources.
Analyze and experience critical issues in the design and administration of employee training and development.
- 823 Organizational Behavior in Labor and Industrial Relations**
Fall, Spring. 3(3-0) R: Open only to students in the School of Labor and Industrial Relations.
Application of behavioral science knowledge at micro- and macro- levels to enhance individual, group and organizational functioning in industrial relations settings.
- 824 Human Resource Strategies and Decisions**
Fall, Spring. 3(3-0) R: Open only to students in the School of Labor and Industrial Relations.
Human resource planning, equal employment opportunity, staffing, training and development. Compensation and benefits. Workforce diversity and organizational development.
- 825 Compensation and Benefits Systems**
Fall, Spring. 3(3-0) P:M: (LIR 824) 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.
Theory and practice relating organizational characteristics to compensation-system strategy, design, and administration. Job evaluation, pay surveys, pay structure, pay administration, group incentives, and benefits.
- 826 Organizational Development and Planned Change**
Fall, Spring. 3(3-0) P:M: (LIR 823) R: Open only to students in the School of Labor and Industrial Relations.
Application of general systems and organizational behavior theories to the problems of organizational change and development in labor and industrial relations. Roles of leadership and change agents.
- 827 High Performance Work Systems**
Spring. 3(3-0) P:M: (LIR 823) R: Open to graduate students in Labor Relations and Human Resources or Labor Relations and Human Resources-Urban Studies, or Social Science Industrial Relations and Human Resources or approval of department.
How work innovations relate to employee empowerment initiatives, organizational processes and performance. Innovations from the perspectives of human resource management, socio-technical systems and labor-management relations. American and international applications.
- 828 Human Resource Information Systems**
Fall, Spring. 3(3-0) P:M: (LIR 824) 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.
Information requirements for human resource decisions. Methods of appraising software. Role of human resource specialists in database development and operation.
- 832 Data Sources in Labor and Industrial Relations**
Fall, Spring. 3(3-0) R: Approval of department.
Evaluation, use, and interpretation of data on industrial relations and human resources. Methods of presentation and report writing. Applications of index numbers, seasonal adjustments, and multiple regression.
- 854 Comparative Industrial Relations and Human Resources Systems**
Spring. 3(3-0) P:M: (LIR 801 or LIR 858 or LIR 863) 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.
Analysis of human resource practices and labor relations in different nations. Comparison of industrialized market economies and workplace practices. Analysis of selected current comparative human resource and industrial relations problems.
- 855 Labor and Management Relations**
Spring. 2(2-0) Spring: MSU Management Education Center, Troy. Interdepartmental with Executive MBA Program. Administered by The Eli Broad College of 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 resolution.
- 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 labor-management committees. Legal, economic, technological, 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 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.
- 863 Law of Labor Management Relations**
Fall, Spring. 3(3-0) R: Open only to students in the School of Labor and Industrial Relations.
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 Arbitration and Alternate Dispute Resolution**
Spring. 3(3-0) RB: (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.
- 868 Employment Law**
Fall, Spring. 3(3-0) R: Open only to students in the School of Labor and Industrial Relations.
Federal law, government policies, and legal principles regarding equal employment opportunity, occupational illnesses and injuries, right to privacy, employment at will, drug and alcohol screening.
- 890 Independent Study in Labor Relations and Human Resources**
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. RB: 15 credits in Labor and Industrial Relations. 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. 3(3-0) A student may earn a maximum of 15 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. RB: 9 graduate credits. R: Open only to students in the School of Labor and Industrial Relations.
Master's thesis research.
- 990 Independent Study 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. RB: 15 credits in Labor and Industrial Relations courses. R: Open only to Ph.D. students in the School of Labor and Industrial Relations.
Individual readings under faculty guidance for doctoral students.

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. RB: (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 Employment Relations Theory and Research
Fall of odd years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. RB: (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.

LANGUAGE, LEARNING AND TEACHING

LLT

Department of Linguistics and Germanic, Slavic, Asian and African Languages College of Arts and Letters

307 Methods of Teaching English to Speakers of Other Languages
Spring. 3(3-0) P:M: Completion of Tier I writing requirement. SA: ENG 307
National and international approaches, methods, materials, settings, needs, and characteristics of TESOL. Survey, evaluation, and application of major effective methods and materials.

346 Pedagogical English Grammar for English Teachers
Fall. 3(3-0) P:M: (LIN 200 or LIN 401) RB: (LIN 434)

Teaching grammar to English-as-second language (ESL) students. Grammar lesson plan development. English grammar, error identification, common English-as-second language errors, evaluation of grammar textbooks, and the role of error correction in English-as-second language teaching.

361 Second and Foreign Language Learning
Fall, Spring. 3(3-0) P:M: (LIN 200) SA: LIN 461

Basic principles of learning a second or foreign language. Issues in first language acquisition. Theories of second language learning. Aptitude, motivation, attitude, learning grammar, age, learning in a classroom, myths, and facts about second language learning.

461 Second Language Acquisition
Fall. 3(3-0) P:M: Completion of Tier I writing requirement. R: Not open to freshmen or sophomores. Approval of department. SA: ENG 461

Factors in second language learning such as age, motivation, language input and interaction, social influences, the role of the native language, and language universals.

807 Language Teaching Methods
Spring. 3(3-0) R: Open only to graduate students in College of Arts and Letters. SA: ENG 807
Approaches, methods, and materials for teaching foreign and second languages, including the teaching of listening, speaking, reading, and writing. Selection and evaluation of materials, lesson planning, and management of activities and materials.

808 Advanced Studies in Language Teaching
Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. RB: (LLT 807) R: Open only to master's students in Teaching English to Speakers of Other Languages. SA: ENG 808
Application of second language acquisition theory and research to pedagogical practice. Needs analyses and syllabus design. Testing methods and assessment in the macroskills. Case studies in language teaching. Contemporary issues including professional development.

841 Topics in Second/Foreign Language Learning and Teaching
Fall, Spring. 3(3-0)
Selected topics and issues in second/foreign language learning and teaching.

846 English Structures and Functions
Spring. 3(3-0) R: Only open to master's students in Teaching English to Speakers of Other Languages. SA: ENG 846
Phonological, morphological, grammatical, lexical, discourse and pragmatic systems of English, including historical origins and social, regional, and gender variations. Application to the teaching of English to speakers of other languages.

861 Advanced Topics in Second Language Acquisition
Fall. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P:M: (LLT 461 or LLT 872) R: Approval of department.

Advanced course in second language acquisition. Topics will vary from year to year based on current topics in the field and faculty interests.

862 Advanced Research in Second Language Acquisition
Spring. 3(3-0) P:M: (LLT 861) R: Approval of department.

Continuation of LLT 861. Professional development seminar in second language acquisition. Research project. Collecting and analyzing data. Preparing projects for conference presentation and publication. Topics vary.

872 Research Methods for Language Teaching and Foreign/Second Language Learning
Fall, Spring. 3(3-0) RB: (LLT 807 and LLT 461)

Concepts and procedures for designing and conducting research in second/foreign language learning and teaching.

890 Independent Study
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

Special projects, directed reading, and research arranged by an individual graduate student and a faculty member in areas supplementing regular course offerings.

896 Practicum in Teaching English as a Second Language
Spring. 3(3-1) A student may earn a maximum of 6 credits in all enrollments for this course.
Syllabus and lesson plan development for a six-week English as a Second Language course. Team teach in a community setting.

897 Teaching English as a Second Language
Spring. 3(3-0)
Teaching of pedagogical skills and grammar at different proficiency levels.

898 Master's Research
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
Directed research in support of Plan B master's degree requirements.

899 Master's Thesis Research
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
Directed research leading to a master's thesis, used in partial fulfillment of Plan A master's degree requirements.

992B Seminar in English as a Second Language
Fall. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to doctoral students in the College of Arts and Letters or approval of department. SA: ENG 992B
Contemporary theories and issues relating to learning English as a second language.

LARGE ANIMAL CLINICAL SCIENCES

LCS

Department of Large Animal Clinical Sciences College of Veterinary Medicine

423 Principles of Fish and Wildlife Disease
Spring of odd years. 3(3-0) Interdepartmental with Fisheries and Wildlife. Administered by Department of Fisheries and Wildlife. P:M: (BS 110 or LBS 144 or LBS 148H) RB: Additional course work in ecology, zoology, microbiology or environmental science. R: Open only to juniors or seniors or graduate students in the College of Agriculture and Natural Resources, the College of Natural Science, or the College of Veterinary Medicine.

Diseases of fish and wildlife species. Disease detection and diagnosis. Ecological and epidemiological analysis and management of major classes of wildlife diseases. Threatened and endangered species, game species, and fish and wildlife species that serve as vectors or reservoirs of human and domestic animal diseases.