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

LLT

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

LANGUAGE, LEARNING AND TEACHING

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:

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

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 sixweek 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 LCS CLINICAL SCIENCES

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.

423L Principles of Fish and Wildlife Disease Laboratory

Spring of odd years. 1(0-3) Interdepartmental with Fisheries and Wildlife. Administered by Department of Fisheries and Wildlife. RB: Additional laboratory course work in ecology, zoology, microbiology or environmental sciences. C: FW 423 concurrently.

Tools for diagnosis and assessment of disease in fish and wildlife populations. Field trips required.

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. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine. R: Approval of department.

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. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine. R: Approval of department.

Research related to a large animal specialty.

613 Problems in Large Animal Clinical Sciences at Off-Campus Sites

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

Advanced clinical-phase training in large animal clinical sciences for which on-campus training is not available. Individualized problems and training objectives.

620 Equine Clinical Clerkship I

Fall, Spring, Summer. 3 credits. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

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

621 Equine Practice Clerkship

Fall, Spring, Summer. 3 credits. RB: Completion of semester 5 of the graduate-professional 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. RB: (LCS 620) 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. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

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

624 Equine Theriogenology Clerkship

Fall, Spring, Summer. 3 credits. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Diagnostic methods used in equine reproduction.

625 Equine Herd Health Clerkship

Fall, Spring. 3 credits. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine

Establishment and maintenance of 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. RB: (LCS 620 and LCS 622) Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

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

627 Advanced Equine Medicine

Spring. 3 credits. RB: (LCS 620) Completion of semester 5 of the graduate-professional program in the 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. RB: (LCS 620 and LCS 622 and LCS 640) Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

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

630 Food Animal Medicine and Surgery Clerkship

Fall, Spring, Summer. 3 credits. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Principles of diagnosis, treatment and prevention of diseases in food and fiber animals. In-clinic and on-farm experience. Required clerkship.

631 Food Animal Practice Clerkship

Fall, Spring, Summer. 3 credits. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Supervised, off-campus experience in an assigned veterinary practice. Regular food animal farm calls. After-hours emergencies. Veterinary practice management.

632 Advanced Food Animal Medicine and Surgery Clerkship

Fall, Spring, Summer. 3 credits. RB: (LCS 630) Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

In-depth, supervised food animal medicine and surgery.

634 Swine Production Medicine Clerkship

Fall, Spring, Summer 3 credits. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Swine diseases and related production problems encountered in swine herd health programs.

638 Beef Production Medicine

Fall. 3 credits. RB: (LCS 630 or LCS 631 or LCS 680 or LCS 681) Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Veterinary management of production and health of beef cattle. Optional visits to out-of-state facilities may be offered.

639 Small Ruminant Medicine

Spring, Summer. 3 credits. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine

Health care to small ruminants on an individual and flock or herd basis. Emphasis on sheep.

640 Large Animal Anesthesia Clerkship

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

Concepts and supervised practice in large animal anesthesiology.

641 Food Animal Theriogenology

Fall, Spring, Summer. 3 credits. RB: (LCS 680 and LCS 681 and LCS 682) Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Techniques for evaluating the reproductive performance of food animal individuals and populations. Emphasis on cattle. Farm visits.

646 Equine Neonatal Medicine Clerkship

Summer. 3 credits. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Principles of breeding farm management. Diagnosis and treatment of equine neonatal disorders. Supervised, in-clinic experience. Elective clerkship.

677 Veterinary Preceptorship

Fall, Spring, Summer. 3 credits. RB: (LCS 620 or LCS 621 or LCS 630 or LCS 631) Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Applied large animal clinical science in private practices. Supervised off-campus experience.

678 Government and Corporate Veterinary Practice

Spring. 3 credits. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Study of government veterinary practice issues including state, federal and international regulatory medicine, state and federal public health, state and federal wildlife, military veterinary medicine, food safety, and animal control. Study of corporate veterinary practice pertaining to the pharmaceutical and chemical industries.

680 Food Animal Techniques

Spring. 3 credits. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Basic food animal techniques including surgery, anesthesia, diagnostic and therapeutic procedures.

681 Food Animal Production Medicine I

Spring. 3 credits. RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Entry-level principles of production medicine as applied to food animal practice. Discussion and laboratory format.

682 Food Animal Production Medicine II

Fall, Spring. 3 credits. P:M: (LCS 681 or concurrently) RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

College of Veterinary Medicine.

Continuation of LCS 681. Farm evaluations and group problem- solving. Application and further development of skills and concepts.

683 Food Animal Production Medicine III

Spring. 3 credits. P:M: (LCS 682 or concurrently) RB: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Analysis of farm records and production medicine variables. Advanced production medicine topics. Individual, off-campus farm experiences required.

809 Special Problems in Large Animal Surgery

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to graduate students in Large Animal Clinical Sciences. Approval of department

Sciences. Approval of department.
Elective work in surgical research problems student's interest.

811 Special Problems in Large Animal Medicine

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to graduate students in the Department of Large Animal Clinical Sciences. Approval of department.

Elective work in medicine-related research problems.

813 Seminar

Fall, Spring. 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course. R: Open only to graduate students in Large Animal Clinical Sciences.

Individualized program of seminar attendance culminating in a student-presented seminar relevant to a specific discipline.

825 Experimental Surgical Techniques for Animal Research

Fall of odd years. 2(1-2) RB: B.S. degree. R: Open only to graduate students. Approval of department.

Humane treatment of research animals. Anesthesia, aseptic surgical techniques. Instrumentation for surgery, suture materials and patterns. Tissue handling and wound healing.

829 Design and Conduct of Epidemiological Studies and Clinical Trials

Spring. 3(2-2) Interdepartmental with Epidemiology. RB: (VM 533) or approval of department. R: Open only to graduate students in the colleges of Human Medicine, Osteopathic Medicine, or Veterinary Medicine.

Applied analytical methods in experimental design. Assessment of health and disease status of animal and human populations. Risk assessment and interpretation of clinical trials.

830 Epidemiology of Foodborne Diseases and Food Safety: An Overview

Fall. 3(3-0) Interdepartmental with Epidemiology. RB: Advanced undergraduate courses in biology, microbiology, biological sciences, biochemical sciences, food technology. R: Approval of department.

Epidemiologic survey of important foodborne diseases addressing recent trends. Sources of surveillance data. Measurement and management of risk factors associated with major foodborne diseases. Tracking foodborne pathogens from farm to table. Introduction to Hazard Analysis Critical Control Points (HACCP).

899 Master's Thesis Research

Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 18 credits in all enrollments for this course. R: Open only to graduate students in Large Animal Clinical Sciences

Master's thesis research.

901 Investigating the Lung

Fall of even years. 2(2-0) Interdepartmental with Physiology; Pathology. R: Open only to graduate students.

Integrative biology of the lung; structure and function; molecular, cellular, and organ responses to injury.

999 Doctoral Dissertation Research

Fall, Spring, Summer. 1 to 36 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Open only to doctoral students in Large Animal Clinical Sciences.

Doctoral dissertation research.

LATIN LTN

Department of French, Classics, and Italian College of Arts and Letters

101 Elementary Latin I

Fall. 4(4-0) R: No previous experience in Latin or designated score on Latin placement test.

Fundamentals of vocabulary, grammar, and syntax. Translation of elementary readings.

102 Elementary Latin II

Spring. 4(4-0) P:M: (LTN 101) or designated score on Latin placement test.

Continued study of the fundamentals of vocabulary, grammar, and syntax. Translation of elementary readings.

122 Accelerated Elementary Latin

Fall of even years. 5(5-2) Not open to students with credit in LTN 101 or LTN 102.

Accelerated introductory Latin, with emphasis on vocabulary, morphology, and syntax.

201 Latin Prose

Fall. 4(4-0) P:M: (LTN 102) or designated score on Latin placement test.

Intermediate-level Latin prose based on readings of such authors as Sallust, Livy, and Cicero.

206 Nepos and Latin Prose

Fall of even years. 3(3-0) P:M: (LTN 102) Selected lives of Cornelius Nepos in the original Latin, with readings in other early and Republican prose authors.

208 Catullus and Lucretius

Spring of odd years. 3(3-0) P:M: (LTN 102) Readings from Catullus's poems and from Lucretius's "De Rerum Natura" in Latin with additional readings.

211 Livy and Roman Historiography

Fall of odd years. 3(3-0) P:M: (LTN 102) Selections from Livy's "Ab Ubre Condita" in the original Latin.

221 Virgil and Latin Poetry

Spring of even years. 3(3-0) P:M: (LTN 102) Readings from Virgil's "Eclogues", "Georgics", and "Aeneid" in Latin. Additional readings from other Latin poets of the later Republic and Augustan periods.

224 Accelerated Intermediate Latin

Spring of even years. 5(5-2) P:M: (LTN 102 or LTN 122) Not open to students with credit in LTN 206 or LTN 208 or LTN 211 or LTN 221

Accelerated intermediate Latin with emphasis on reading and Neo-Latin.

290 Independent Study

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Approval of department.

Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.