

Language, Learning and Teaching—LLT

- 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 Methods of Teaching English to Speakers of Other Languages**
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 English to non-native speakers, including the teaching of listening, speaking, reading, and writing. Selection and evaluation of materials, lesson planning, and management of activities and materials.

- 808 Studies in Teaching English to Speakers of Other Languages**
Spring, 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. RB: (ENG 807) R: Open only to master's students in English-Teaching of English to Speakers of Other Languages. SA: ENG 808

Methodology of selected areas in teaching English to non-native speakers. Materials development and syllabus design. Program administration and evaluation. Instructional evaluation. Testing methods and materials. Major contemporary issues.

- 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: Open only to master's students in English-Teaching of 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.

- 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)

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

- 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.

- 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: 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

- 613 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 on-campus liaison and the off-campus liaison.

- 620 Equine Clinical Clerkship I**
Fall, Spring, Summer, 3 credits. R: 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. R: 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. After-hours 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) 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 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. R: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

Emphasis on diagnostic methods utilized in equine reproduction.

- 625 Equine Herd Health Clerkship**
Fall, Spring, 3 credits. R: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.

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. RB: (LCS 620 and LCS 622) R: 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. Emphasis on breeds used for racing or sport.
- 627 Advanced Equine Medicine**
Spring. 3 credits. RB: (LCS 620) R: 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) R: 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. R: 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. Provides in-clinic and on-farm experience. Required clerkship.
- 631 Food Animal Practice Clerkship**
Fall, Spring, Summer. 3 credits. R: 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) R: 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: Permission of course moderator R: 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.
- 637 Advanced Dairy Production Medicine**
Fall, Spring, Summer. 3 credits. RB: (LCS 633 and LCS 643) or permission of course moderator R: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.
Topics related to enhancing profitability, decreasing disease, and improving management of dairy farms.
- 638 Beef Production Medicine**
Fall. 3 credits. RB: (LCS 630 or LCS 631) and (LCS 643) or permission of course moderator. R: 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**
Fall, Spring, Summer. 3 credits. RB: (LCS 643) or permission of course moderator R: 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. R: 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 630 and LCS 643) or permission of course moderator R: 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. R: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.
Principles of breeding farm management and 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) R: 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. R: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.
Preparation for employment in government and corporate veterinary practice.
- 680 Food Animal Techniques**
Spring. 3 credits. R: 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: (LCS 680) or approval of department. R: 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**
Spring. 3 credits. P:M: (LCS 681) R: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.
Continuation of LCS 681 involving farm evaluations and group problem solving. Application and further development of skills and concepts introduced in LCS 681.
- 683 Food Animal Production Medicine III**
Spring. 3 credits. P:M: (LCS 682) R: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine.
Individual, on-farm experiences lasting approximately one week. Analysis of farm records and production medicine variables. Advanced production medicine topics.
- 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.
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 Large Animal Clinical Sciences. Approval of department.
Elective work in medicine related research problems student's interest.
- 813 Seminar**
Fall, Spring, Summer. 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 or Small Animal Clinical Sciences. Approval of department.
Presentation and discussions of current topics by graduate students, faculty, or outside speakers.
- 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.

Large Animal Clinical Sciences—LCS

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.

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.

202 Latin Poetry
Spring. 4(4-0) P:M: (LTN 201)
Intermediate-level Latin poetry of the Republic and Augustan periods.

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.

301 Republican Prose and Poetry (W)
Fall of even years. 3(3-0) P:M: (LTN 202) and completion of Tier I writing requirement.
Cicero, Caesar, Sallust, Plautus, Terence, Catullus, and Lucretius.

302 Augustan Poetry (W)
Spring of odd years. 3(3-0) P:M: (LTN 202) and completion of Tier I writing requirement.
Poetry of Virgil, Horace, Propertius, Tibullus, and Ovid.

401 Augustan and Early Imperial Prose
Fall of odd years. 3(3-0) P:M: (LTN 302)
Augustan and Early Imperial prose writers. Livy, Augustus, Tacitus, Petronius, Suetonius, and others.

402 Imperial Poetry
Spring of even years. 3(3-0) P:M: (LTN 302)
Poets of the Empire: Lucan, Seneca, Persius, Juvenal, Silius Italicus, Statius, and others.

490 Independent Study
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Not open to freshmen or sophomores. Approval of department.
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

499 Senior Thesis
Fall, Spring. 3 credits. P:M: (LTN 402) R: Approval of department.
Senior thesis under the direction of a faculty member.

225 Women and Language
Fall. 3(3-0) Interdepartmental with Women's Studies.
Women and language in societies around the world. Issues such as status and verbal politeness, importance of names, gender differences in language use, women's multilingualism, sexist language, gendered language development in children.

291 Special Topics in Linguistics
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.
Special topics supplementing regular course offerings proposed by faculty on a group study basis.

401 Introduction to Linguistics
Fall, Spring. 4(4-0) Not open to students with credit in LIN 200.
Basic goals, concepts, methods, and research results of modern theoretical and applied linguistics. Examples from a variety of languages.

411 History of Linguistics
Spring. 3(3-0) P:M: (LIN 200 or LIN 401)
Origin and development of linguistic studies from ancient Greece to the present. Foundation for the understanding of contemporary issues in linguistics and in society.

424 Introduction to Phonetics and Phonology
Fall, Spring. 3(3-0) P:M: (LIN 200 or LIN 401)
Phonetics, phonetics features and components, phonological phenomena, phonemic analysis, sound systems and data analysis.

428 Writing Systems
Fall of odd years. 3(3-0) P:M: (LIN 200 or LIN 401)
Writing systems of the world and their history and organization in the context of linguistic science. Special attention is given to the typology of these systems and the ways they relate to the structure of spoken language.

431 Morphological and Syntactic Phenomena
Fall. 4(4-0) P:M: (LIN 424 or concurrently)
Structure of words, phrases, clauses, and sentences. Relations among words. Examples from languages of the world, and formal methods for their description.

434 Introduction to Syntax
Fall, Spring. 3(3-0) P:M: (LIN 200 or LIN 401)
Structure of sentences and structural relations among phrases. Methods of syntactic analysis and argumentation.

437 Semantics and Pragmatics
Fall. 3(3-0) P:M: (LIN 200 or LIN 401)
Semantic properties and relations. Entailment, ambiguity, theories of word and sentence meaning, and logical form. Topics in pragmatics, such as presupposition, conversational implicature, speech acts.

441 Historical Linguistics
Fall. 3(3-0)
Types of linguistic change and the methods used by linguists to study the historical development of languages and language families.

LATIN

LTN

Department of Romance and Classical Languages 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.

LINGUISTICS

LIN

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

200 Introduction to Language
Fall, Spring. 3(3-0) Not open to students with credit in LIN 401.
Linguistic structure of language. Applications of linguistics to other disciplines. Human and societal aspects of the nature, use, acquisition, and history of languages.