

**Descriptions—Large Animal Clinical Sciences
of
Courses**

**650. Equine Medicine and Surgery
Clerkship**

Fall, Spring, Summer. 6 credits.
R: Open only to fourth year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in LCS 620.
Supervised practice in equine medicine and surgery. Diagnosis, prognosis, treatment, and disease prevention.
Temporary approval effective from Fall Semester 1992 through Spring Semester 1996.
QA: LCS 650

**651. Equine Musculoskeletal Disease
Clerkship**

Fall. 2 credits.
R: Open only to fourth year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in LCS 623.
Diagnosis and management of equine musculoskeletal diseases. Hospitalized and field cases.
Temporary approval effective from Fall Semester 1992 through Spring Semester 1996.
QA: LCS 651

**654. Advanced Equine Medicine and
Surgery Clerkship**

Spring. 2 credits.
P: LCS 650. R: Open only to fourth year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in LCS 622.
In-depth, supervised equine medicine and surgery.
Temporary approval effective from Fall Semester 1992 through Spring Semester 1996.
QA: LCS 654

**656. Large Animal Anesthesiology
Clerkship**

Fall, Spring, Summer. 2 credits.
R: Open only to fourth year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in LCS 640.
Concepts and supervised practice in large animal anesthesiology.
Temporary approval effective from Fall Semester 1992 through Spring Semester 1996.
QA: LCS 656

**660. Field Service and Food Animal
Clerkship**

Fall, Spring, Summer. 6 credits.
R: Open only to fourth year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in LCS 630 or LCS 631.
Management of individual and herd animal disease problems. Hospital and on-farm environment. Theriogenology. Herd health management and clinical epidemiology.
Temporary approval effective from Fall Semester 1992 through Spring Semester 1996.
QP: LCS 630 or LCS 631 QA: LCS 660

664. Dairy Herd Health Clerkship

Fall, Spring. 2 credits.
R: Open only to fourth year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in LCS 633.
Dairy farm and herd health management. Record keeping, general management, housing, nutrition. Mastitis control.
Temporary approval effective from Fall Semester 1992 through Spring Semester 1996.
QA: LCS 664

666. Equine Herd Health Clerkship

Fall, Spring. 2 credits.
R: Open only to fourth year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in LCS 625.
Establishing and maintaining herd health programs for equine operations.
Temporary approval effective from Fall Semester 1992 through Spring Semester 1996.
QA: LCS 666

668. Swine Herd Health Clerkship

Fall, Spring. 2 credits.
R: Open only to fourth year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in LCS 634.
Swine diseases and related production problems in swine herd health programs.
Temporary approval effective from Fall Semester 1992 through Spring Semester 1996.
QA: LCS 668

672. Advanced Food Animal Clerkship

Spring. 2 credits.
P: LCS 660. R: Open only to fourth year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in LCS 632.
In depth, supervised food animal surgery and medicine.
Temporary approval effective from Fall Semester 1992 through Spring Semester 1996.
QA: LCS 672

674. Preceptorship

Fall, Spring, Summer. 4 credits.
R: Open only to fourth year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in LCS 677 or VM 610 or VM 611.
Applied large animal clinical science in private practices. Supervised off-campus experience.
Temporary approval effective from Fall Semester 1992 through Spring Semester 1996.
QA: LCS 674

**676. Veterinary Nutrition for Livestock
Clerkship**

Fall, Spring. 2 credits.
P: LCS 660. R: Open only to fourth year graduate-professional students in College of Veterinary Medicine.
Evaluating the nutritional status and rations of livestock.
Temporary approval effective from Fall Semester 1992 through Spring Semester 1996.
QA: LCS 676

677. Veterinary Preceptorship

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. Not open to students with credit in LCS 674 or VM 610 or VM 611.
Applied large animal clinical science in private practices. Supervised off-campus experience.
QA: LCS 674

**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.
QA: LCS 809

**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.
QA: LCS 811

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-numbered years. 2(1-2)
P: 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.

827. Comparative Theriogenology

Spring of odd-numbered years. 2(2-0)
P: VM 580. R: Open only to graduate students in Large Animal Clinical Sciences or Small Animal Clinical Sciences. Approval of department.
Comparative pathophysiology of reproductive systems of domestic animals. Emphasis on clinical theriogenology.

828. Tropical Animal Health

Spring. 2(2-0)
R: Open only to graduate-professional students in College of Human Medicine, College of Osteopathic Medicine, College of Veterinary Medicine. Approval of department.
Animal health in the tropics. Impact on agriculture, the livestock industry, and human welfare.

**829. Design and Conduct of
Epidemiological Studies and
Clinical Trials**

Spring. 2(2-0)
P: VM 533. R: Open only to graduate student. Approval of department.
Applied analytical methods in experimental design. Assessment of health and disease status of animal and human populations. Risk assessment and interpretation of clinical trials.

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. Approval of department.

901. Investigating the Lung

Fall of even-numbered years. 3(3-0) Inter-departmental with Physiology and Pathology.
R: Open only to M.S. and Ph.D. students in Large Animal Clinical Sciences, Small Animal Clinical Sciences, Physiology, and Pathology. Approval of department.
Classic and current concepts of respiratory structure and function in health and disease. Mechanisms of lung injury.
QA: LCS 901

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 graduate students in Large Animal Clinical Sciences. Approval of department.

LATIN

LTN

**Department of Romance and
Classical Languages
College of Arts and Letters**

101. Elementary Latin I

Fall. 4(4-1)
R: No previous experience in Latin or designated score on Latin placement test.
Fundamentals of vocabulary, grammar, and syntax. Translation of elementary readings.
QA: LTN 101, LTN 102

102. Elementary Latin II

Spring. 4(4-1)
P: LTN 101 or designated score on Latin placement test.
Continued study of the fundamentals of vocabulary, grammar, and syntax. Translation of elementary readings.
QP: LTN 102 QA: LTN 102, LTN 103

201. Latin Prose
Fall, 4(4-1)
P: LTN 102 or designated score on Latin placement test.
Intermediate-level Latin prose based on readings of such authors as Sallust, Livy, and Cicero.
QP: LTN 103 QA: LTN 201, LTN 202

202. Latin Poetry
Spring, 4(4-1)
P: LTN 201.
Intermediate-level Latin poetry of the Republic and Augustan periods.
QP: LTN 201 QA: LTN 202, LTN 203

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.
QA: LTN 299

301. Republican Prose and Poetry
Fall of even-numbered years. 3(3-0)
P: LTN 202.
Cicero, Caesar, Sallust, Plautus, Terence, Catullus, and Lucretius.
QP: LTN 203 QA: LTN 300

302. Augustan Poetry
Spring of even-numbered years. 3(3-0)
P: LTN 202.
Poetry of Virgil, Horace, Propertius, Tibullus, and Ovid.
QP: LTN 203 QA: LTN 300

401. Augustan and Early Imperial Prose
Fall of odd-numbered years. 3(3-0)
P: LTN 301 or LTN 302.
Augustan and Early Imperial prose writers. Livy, Augustus, Tacitus, Petronius, Suetonius, and others.
QP: LTN 300 QA: LTN 490

402. Imperial Poetry
Spring of odd-numbered years. 3(3-0)
P: LTN 301 or LTN 302.
Poets of the Empire: Lucan, Seneca, Persius, Juvenal, Silius Italicus, Statius, and others.
QP: LTN 300 QA: LTN 490

490. Independent Study
Fall, Spring, 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course.
R: Not open to freshmen and sophomores. Approval of department.
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.
QA: LTN 499

499. Senior Thesis
Fall, Spring, 3 credits.
P: LTN 402. R: Approval of department.
Senior thesis under the direction of a faculty member.
QP: LTN 490

401. Introduction to Linguistics
Fall, Spring, 4(4-0)
R: 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.
QA: LIN 401

411. History of Linguistics
Fall, 3(3-0)
P: 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.
QP: LIN 200 or LIN 401 QA: LIN 408

424. Phonology
Fall, Spring, 3(3-0)
P: LIN 200 or LIN 401.
Sounds and sound systems: articulatory phonetics, phonetic features and components, classical phonemics, and phonology in contemporary linguistic theories.
QP: LIN 200 or LIN 401 QA: LIN 402

431. Morphological and Syntactic Phenomena
Spring, 4(4-0)
P: 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.
QP: LIN 200, LIN 401, LIN 402 QA: LIN 403, LIN 404

434. Syntax
Fall, 3(3-0)
P: LIN 200 or LIN 401.
Structure of sentences and structural relations among sentences. Methods of syntactic analysis and argumentation.
QP: LIN 200 or LIN 401 QA: LIN 431

437. Semantics and Pragmatics
Spring, 3(3-0)
P: LIN 200 or LIN 401 or approval of department.
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.
QP: LIN 200 or LIN 401 QA: LIN 435

441. Historical Linguistics
Spring, 3(3-0)
P: LIN 431 or concurrently.
Types of linguistic change and the methods used by linguists to study the historical development of languages and language families.
QP: LIN 403 QA: LIN 471

450. Child Language Acquisition
Spring, 3(3-0)
P: LIN 200 or LIN 401.
Linguistic issues, perspectives and research on the acquisition of language by children. Phonology, lexicon, morphology, syntax, semantics. Universal principles, variation, contexts. Implications for related disciplines.
QP: LIN 200 or LIN 401 QA: LIN 410

471. Sociolinguistics
Fall, 3(3-0)
P: LIN 200 or LIN 401.
Linguistic and social psychological bases for language choice. Accounts of language variation and related larger constructs such as speech community, communicative competence, dialect, and language change.
QP: LIN 200 or LIN 401 QA: LIN 415

490. Independent Study
Fall, Spring, 1 to 4 credits. A student may earn a maximum of 8 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.

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

499. Senior Thesis Research
Fall, Spring, 2 credits.
R: Approval of department.
An individual research project supervised by a faculty member that demonstrates the student's ability to do independent research and submit or present a major paper.
QA: LIN 490

813. Foundations of American Structuralism
Fall of even-numbered years. 3(3-0)
P: LIN 431.
Critical reading of basic texts in linguistics from 1900 to the 1960s with primary emphasis on American structuralism and its major derivatives.
QP: LIN 403, LIN 404 QA: LIN 808

815. Stratificational Linguistics
Fall of odd-numbered years. 3(3-0)
P: LIN 431.
Theory of language developed by Sydney M. Lamb and its application to grammatical, semological, and phonological phenomena. The relation of stratificational theory to other views of language.
QP: LIN 403, LIN 404 QA: LIN 821, LIN 831

824. Issues in Phonology
Fall, 3(3-0)
P: LIN 424
Theories, current issues, and research in the study of the sound systems of language. Methods of phonological analysis and argumentation.
QP: LIN 402 QA: LIN 821

834. Issues in Syntax
Fall, 3(3-0)
P: LIN 434
Theories, current issues, and research in the study of the structure of sentences and structural relations among sentences. Methods of syntactic analysis and argumentation.
QP: LIN 431 QA: LIN 831

837. Advanced Studies in Semantics and Pragmatics
Fall of even-numbered years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course.
P: LIN 437
Selected topics in semantics and/or pragmatics, such as noun phrase interpretation, tense and aspect, conversational implicature, and negation. Advanced level analytical techniques.
QP: LIN 435 QA: LIN 835

850. Advanced Studies in Child Language Acquisition
Spring, 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course.
P: LIN 450.
Children's native language acquisition: research methods, crosslinguistic data, and explanations from linguistic theory. Topics such as learnability, parameters, innateness, narratives, individual variation, and bilingualism.
QP: LIN 410 QA: LIN 810

861. Advanced Studies in Second Language Acquisition
Spring, 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course.
Interdepartmental with English.
P: ENG 461 or approval of department.
Current issues and theories of second and foreign language acquisition. Role of language structure, personality, and general cognition. Methods of research.
QP: LIN 401 QA: LIN 861

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.
Human and societal aspects of the nature, use, acquisition, and history of languages.
QA: LIN 200

271. Language in Society
Fall, Spring, 3(3-0)
Not open to students with credit in LIN 471.
Sociolinguistic values of languages and their varieties. Origin, status and function of language varieties in social settings. Factors influencing language change and maintenance in individuals and social groups.
QA: LIN 280