LARGE ANIMAL CLINICAL SCIENCES

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 620 or LCS 621; 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; 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 661.
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. 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. Establishing and maintaining equine herd health programs. Reproduction, parasitic 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 anesthesiology and surgery. Preparative care of University-owned equids, induction of anesthesia, and performance of minor surgical procedures.

629. Equine Fundamentals
Spring, 3 credits. P: Completion of semester 5 of the professional veterinary program. R: Open only to graduate-professional students in the College of Veterinary Medicine. Basic clinical skills in equine medicine, surgery and reproduction.

Large Animal Clinical Sciences—Descriptions of Courses

630. Food Animal Medicine and Surgery Clerkship
Fall, Spring, Summer, 3 credits. 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 669.
Disease diagnosis and therapy of food animal species in a hospital setting. Disease process related to herd of origin.

631. Food Animal Practice Clerkship
Fall, Spring, Summer, 3 credits. P: LCS 640; 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 660.
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. P: LCS 660, 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 672.
In depth, supervised food animal medicine and surgery.

633. Dairy Production Medicine Clerkship
Fall, Spring, Summer, 3 credits. P: LCS 631, 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 665.
Dairy farm and herd health management. Record keeping, general management, housing, nutrition, mastitis control.

634. Swine Production Medicine Clerkship
Fall, Spring, Summer, 3 credits. P: LCS 631, 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 665.
Swine diseases and related production problems encompassed in swine herd health programs.

635. Advanced Swine Production Medicine
Fall, Spring, Summer, 3 credits. P: LCS 664. Completion of semester 5 of the professional veterinary program. R: Open only to graduate-professional students in College of Veterinary Medicine. Preparation for herd consultation; population management, records analysis, integrated production systems, and complex multi-factorial problems.

636. Introduction to Herd Medicine
Fall, Spring, Summer, 3 credits. P: Completion of semester 5 of the professional veterinary program. Open only to graduate-professional students in College of Veterinary Medicine. Principles of herd health and production medicine. Participation in the production medicine service.

637. Advanced Dairy Production Medicine
Fall, Spring, Summer, 3 credits. P: LCS 665, LCS 668. R: Completion of semester 5 of the professional veterinary program. Open only to graduate-professional students in College of Veterinary Medicine.
Topics related to enhancing profitability, decreasing disease, and improving management of dairy farms.
630. Beef Production Medicine
Fall, Spring, Summer. 3 credits.
P: LCS 630 or LCS 631 or LCS 636 or LCS 643. R: Completion of semester 5 of the professional veterinary program. Open only to graduate-professional students in College of Veterinary Medicine. Veterinary management of production and health of beef cattle. Visits to out-of-state facilities may be required.

639. Small Ruminant Medicine
Fall, Spring, Summer. 3 credits. R: Open only to graduate students in Large Animal Clinical Sciences. Approval of department. Clinical work in sheep and goats. Focus on small ruminant health and disease management.

809. 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. Approval of department.

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(2-0) 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.

837. Comparative Theriogenology
Spring of even-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.

888. 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.

901. Investigating the Lung
Fall of even-numbered years. 3(3-0) Interdepartmental 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. Exposure to current and relevant concepts of respiratory structure and function in health and disease. Mechanisms of lung 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 graduate students in Large Animal Clinical Sciences. Approval of department.

LATIN

Department of Romance and Classical Languages
College of Arts and Letters

101. Elementary Latin I
Fall. 4(4-0) P: 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: Latin 101 or designated score on Latin placement test. First-yearLatin prose based on readings of such authors as Sallust, Livy, and Cicero.

201. Latin Prose
Fall. 4(4-0) P: Latin 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: Latin 201. Intermediate-level Latin poetry of the Republic and Augustan periods.

300. 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-numbered years. 3(3-0) P: Latin 202. R: Completion of Tier I writing requirement. Poetry of Virgil, Horace, Propertius, Tibullus, and Ovid.

302. Augustan Poetry (W)
Spring of odd-numbered years. 3(3-0) P: Latin 202. R: Completion of Tier I writing requirement. Poetry of Vergil, Horace, Propertius, Tibullus, and Ovid.

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

402. Imperial Poetry
Spring of even-numbered years. 3(3-0) P: Latin 301 or Latin 302. Poetry of the Empire: Lucan, Seneca, Persius, Juvenal, Silius Italicus, Statius, and others.