

GRADUATE COURSES 850-900 (Given only for graduate credit)

# / Type	Credits/G rading	Offered	Standing	Course	Catalog Description	Coordinator
CS 850 /O	1-6 /CR	All	Consent	Research in Medicine	(1-6) I, II, S. An attempted solution of some of the medical and parasitological problems confronting the practitioner of veterinary medicine. Pr.: Consent of staff.	Rush
CS 851 /D	1-5/G	All	DVM or consent	Breeding Diseases (Not Spring 2008)	(1-5) I, II, S. Advanced studies of the breeding diseases of domestic animals. Pr.: DVM degree or consent of staff.	Rush
CS 852 /D	3/G	Fall-Odd	DVM or consent	Interpretation of Radiology Studies of Body Systems Armbrust, Biller	(3) I. Advanced discussions of radiologic interpretation, indications and interpretation of alternate imaging procedures (MRI, CT, nuclear medicine, ultrasound). Pr.: DVM degree or consent of department head prior to registration.	Armbrust
CS 854 /D	1-3/G	All	DVM or consent	Systemic Medicine I (Not Spring 2008)	(1-3) I, II, S. Study of the medical aspects of diseases of the urinary, nervous, and integumentary systems, and special senses. Pr.: DVM degree or consent of department head.	
CS 855 /D	1-3/G	Fall	DVM or consent	Systemic Medicine II	(1-3) I. Study of the medical aspects of diseases of the special senses, cardiovascular, respiratory, musculoskeletal, and endocrine systems. Pr.: DVM or consent of department head.	
CS 858 /O	4/G	Spring, every 3 rd yr – offered next in Spring 2010	DVM or consent	Orthopedic Surgery Renberg, Roush	(4) II. Fundamentals, theory, and practice concerning genetic metabolic, infectious, neoplastic and traumatic diseases of bones and joints. Pr.: DVM degree or consent of department head.	Roush
CS 859 /O	1/G	Fall Spring	DVM or consent	Clinical Sciences Seminar All House Officers	(1) I, II. A required seminar for all house officers and graduate students in the Department of Surgery and Medicine. One-hour conference weekly. May re-enroll for total maximum of two credits. Pr.: Consent of department head. (I, II, S)	Lillich

CS 861, CS 862, &CS 863 /D	2/G	Fall 01,02, 03	Grad Student	<p>Advanced Large Animal Surgery 1, 2, & 3 (was 864 & 865) Lillich</p> <p>861 in F-07 862 in F-08 – offered Spring 2009 863 in F-09</p> <p>861 in F-10 862 in F-11 863 in F-12</p>	<p>(2) I. Advanced Large Animal Surgery 1: In depth review and discussion of current basic surgical science and foundations of sound surgical practices.</p> <p>(2) I. Advanced Large Animal Surgery 2: Concentrated examination of the pre-operative, surgical and post-operative requirements of soft tissue surgical diseases/disorders of large animals.</p> <p>(2) I. Advanced Large Animal Surgery 3: Concentrated examination of the pre-operative, surgical and post-operative requirements of orthopedic or hard tissue surgical diseases/disorders of large animals. Pr.: DVM (or the equivalent) or Masters of Science in biological or medical sciences.</p> <p>Courses will be offered in sequential order, one each fall semester. Therefore, each individual course will be offered every 3rd year.</p>	Lillich
CS 867 /O	1/CR	Fall (Not offered 2004- 2008)	Grad Student	<p>Advanced Diagnostic Imaging - Small Animal Billier</p>	<p>(1) I. Case presentation/discussion of diagnostic imaging techniques used in small animal veterinary practice, including radiography, ultrasonography, nuclear imaging, magnetic resonance imaging, and computer tomography. Clinical cases will demonstrate imaging methods and technology used in the various body systems, with an emphasis on interpretation and clinical diagnosis. Pr.: DVM degree. Students may re-enroll for a maximum of three credits.</p>	Billier
CS 868 /D	1/CR	Fall	DVM or consent	<p>Topics in Small Animal Internal Medicine I Harkin</p>	<p>(1) I. Various topics in small animal internal medicine will be presented. Different topics will be covered in various years at instructor's discretion. In depth discussion of pathophysiology and recent advances in diagnostics and therapeutics. Course may be repeated with approval of instructor. Pr.: DVM Degree</p>	Harkin
CS 869	1/G	Spring	DVM	<p>Topics in Small Animal Internal Medicine II</p>	<p>(1) II. Various topics in small animal internal medicine will be presented. One topic will be covered in a one-hour conference weekly. In-depth discussion of pathophysiology and recent advances in diagnostics and therapeutics. Course may be repeated with approval of instructor. Pr.: DVM Degree</p>	Harkin
CS 870 /C	3/G	Summer	2 nd yr & 3.0 GPA	<p>Diagnostic Methods in Feedlot Management Kennedy</p> <p>This course is cross listed with the Diagnostic Medicine/Pathobiology (DMP 810) proposed course.</p>	<p>(3) S. Practical experience in feedlot operation and bovine necropsy diagnosis consisting of 40 hours in bovine necropsy and 320 hours of an on-location practicum in a cattle feedlot. Pr.: Successful completion of the first-year professional curriculum in the College of Veterinary Medicine with a cumulative GPA of 3.0 or better and no grade below a C.</p>	Thomson

CS 871 /C	3/G	Summer	3 rd yr & 3.0 GPA	Fundamentals of Feedlot Health and Management Jones, Ag Economist	(3) S. Practical experience in feedlot operational management consisting of 320-400 hours of an on-location practicum in a cattle feeding environment. Pr.: CS 870. Successful completion of the second-year of the professional curriculum in the College of Veterinary Medicine with a cumulative GPA of 3.0 or better and no grade below a C.	Thomson
CS872 /D	1/CR	Fall (not offered Fall 03 - 06)	DVM	Introduction to Small Animal Endoscopy Renberg	(1) I. Introduction to the fundamentals of small animal (canine and feline) endoscopy, including respiratory, gastrointestinal, endoscopy, laparoscopy, and arthroscopy. Thirteen lectures with 2 laboratories will be offered. Offered Fall Semester only. Pr.: DVM degree and approval from course coordinator.	
CS 873	Var/CR	Fall, Spring	DVM or consent	Advanced Topics in Small Animal Surgery Renberg, Roush (offered Spring 2005)	(Var) I, II. Current and foundational information on techniques, theory, and management in small animal surgery. Pr.: DVM degree or approval of instructor.	Renberg
CS 874 /D	2/G	Fall	Grad Student	Clinical Pharmacokinetics Gehring	(2) I. An overview of pharmacokinetics with emphasis on practical implications for the clinician, including bioavailability, bioequivalence, residues in food of animal origin, dosage forms and regimens, therapeutic drug monitoring, drug interactions, interspecies differences, and the effect of disease on the pharmacokinetics of drugs. Two hours lecture a week. Pr.: Enrollment in graduate school.	Gehring
CS 875 /D	3/G	Spring	Grad Student	Advanced Pharmacokinetics Gehring	(3) II. Advanced study of the concepts and practical applications of pharmacokinetics for graduate students of veterinary clinical pharmacology, including the design and conduct of pharmacokinetic studies and the analysis and modeling of pharmacokinetic data. Two hours lecture and two hours practical per week. Pr.: CS 874 and enrollment in the graduate school.	Gehring
CS 879 /D	1/G	Fall and Spring	Grad Student	Applied Production Medicine Dritz, Larson, Renter, Sanderson, White	(1) I, II. Advanced training in agricultural production medicine research. Emphasis on answering production medicine problems through the appropriate design and interpretation of research models. Course is discussion-based and facilitated by a team of faculty members. Students will be expected to participate in weekly topic discussions. Pr.: Graduate Student.	White
CS 890 /O	Var/GR	All	Grad Student	Clinical Science Problems	(1-3) I, II, S. Advanced instruction in research topics and technologies, emphasizing various clinical disciplines. Pr.: DVM degree.	Rush
CS 895 /O	1/G	Fall - Odd yrs	Grad Student	Research Methods Mason, Roush, Rush, invited faculty	(1) I. Discussion of research design, grantsmanship, practical statistics, manuscript preparation, and ethics. Pr.: DVM degree or consent of department head.	Davis
CS 899 /O Pending	1-6 /CR	All	Grad Student	Thesis Research/Clinical Sciences L. Beard, W. Beard, Davis, Lillich	(1-6) I, II, S. Individual research in any of the fields of Clinical Sciences. Pr.: graduate standing. This work may form the basis for the MS Thesis (or the MS Report).	Rush