

Course and Curriculum Changes Approved By
The College of Veterinary Medicine Faculty

Friday, September 28, 2007
3:00 pm
301 Trotter Hall

Departments that may be directly impacted by this change have been notified.

These departments are:
Diagnostic Medicine and Pathobiology, Anatomy and Physiology
and
Clinical Sciences

Please provide the sponsors of this proposal with any information, regarding fiscal or programmatic impact on your department, program, and/or students.

Department of Clinical Sciences

Proposed Course to be Dropped

CS 723 – Core Food Animal Rotation

Brief Explanation of Change:

This course will no longer be offered as part of the Veterinary Medicine curriculum.

Catalog Description:

CS 723. Core Food Animal Rotation. (1) S. Each student enrolled in the D.V.M. degree curriculum will be required to complete a one week rotation at the Great Plains Veterinary Educational Center (GPVEC) on the Meat Animal Research Center (MARC) near Clay Center, Nebraska, during the summer semester between the first and second years of the curriculum.

Department of Clinical Sciences

Proposed Course to be Dropped

CS 744 – Grand Rounds II

Brief Explanation of Change:

This course will no longer be offered in the curriculum.

Catalog Description:

CS 744. Grand Rounds II. (1) II. An introduction into veterinary medical problem identification and solving. Emphasis will be on history and physical examination, diagnostic data interpretation, and designing a therapeutic plan. Pr. Second-year standing in College of Veterinary Medicine.

Department of Clinical Sciences

Proposed Minor Modification

CS 732 – Diagnostic Techniques in Equine Medicine

Brief Explanation of modification:

The combination of labs and lectures will be variable.

Catalog Description:

CS 732. Diagnostic Techniques in Equine Medicine. (1) II. This elective course emphasizes the techniques needed for internal medicine. Lectures and labs covering endoscopy, bronchoalveolar lavage, transtracheal wash, ultrasound, spinal tap, dentistry and epidural will emphasize skills, indications, and complications Pr. Fourth-year standing in College of Veterinary Medicine

Department of Diagnostic Medicine/Pathobiology

Proposed Minor Modification

DMP 854 – Disease Epidemiology

Brief Explanation of modification:

This modification would change the prerequisite requirement to include either STAT 703. Statistical Methods for Natural Scientists; DMP 830. Quantitative Analysis in Food Production Veterinary Medicine or equivalent.

Catalog Description:

DMP 854. Disease Epidemiology. (3) I. Epidemiologic principles of disease with a focus on measures of disease occurrence, association and impact, determinants of disease diagnostic test evaluation, study design and critical literature evaluation. Pr. STAT 703 or DMP 830 or equivalent

Department of Diagnostic Medicine/Pathobiology

Proposed Minor Modification

DMP 871 – Molecular Diagnostics of Infectious Diseases

Brief Explanation of modification:

To optimize the number of graduate student enrollment, this course will be offered during the fall semesters of odd-numbered years, beginning 2007. Currently, it is offered each year, both fall and spring semesters.

Catalog Description:

DMP 871. Molecular Diagnostics of Infectious Diseases. (3) I. This graduate course is aimed at reviewing and evaluating new and improved molecular diagnostic methods for infectious diseases. Theory, development, and applications of molecular diagnostic tests will be discussed in the context of current literature. This course will provide an opportunity for students to learn and apply recent advances in the development of molecular diagnostic tests. Students enrolled in this course should have adequate theoretical background in biochemistry and molecular biology. Contact the instructor prior to enrollment.

Department of Diagnostic Medicine/Pathobiology

New Course Proposed

DMP 954 – Design and Interpretation of Epidemiologic Research

Brief Outline of course:

This new course in epidemiology will provide graduate students an advanced understanding of theoretical issues and in-depth practical experiences that are necessary for designing, planning, analyzing and interpreting epidemiologic research. The course will emphasize study design/analysis issues and applications for classical observational research, including case-control, cross-sectional, and cohort studies. Students will learn to identify the most appropriate design, recognize and control bias, and apply appropriate analytical techniques for various epidemiologic studies. Independent readings of journal articles and text chapters combined with problem questions and weekly discussion groups will form the basis for understanding the theory and methods. Independent, yet facilitated analysis of problems and data sets will enable students to learn applied skills. Students will design epidemiologic research projects and analyze relevant data sets.

Prerequisites include DMP 854. Disease Epidemiology; and STAT 717. Categorical Data Analysis; or equivalent training and special instructor permission.

Course letter grades will be based on participation in discussions, an indication of a motivation to learn concepts, and performance on assignments. Assignments will include short synopses of assigned readings, short problem sets, detailed study designs, and study analysis.

Catalog Description:

DMP 954. Design and Interpretation of Epidemiologic Research. (3) II. Advanced theory and methods for designing, analyzing and interpreting epidemiologic research. Emphasis on observational study design and analysis issues including design identification and optimization, bias recognition and control, and appropriate analytical approaches for epidemiologic data. Pr. DMP 854 and STAT 717, or equivalent training

Faculty member responsible:

David G. Renter, DVM, PhD

Qualifications

Education:

University of Nebraska at Kearney, Comprehensive Biology, B.Sc./1994

Kansas State University, Veterinary Medicine, D.V.M./1998

Kansas State University, Veterinary Epidemiology, Ph.D./2002

Primary Appointment (since 2005): Assistant Professor of Veterinary Epidemiology, Pathobiology Graduate Faculty, Department of Diagnostic Medicine/Pathobiology, College of Veterinary Medicine, Kansas State University.

2006 – Present: Graduate Faculty, Food Science Graduate Program, Kansas State University.

2005 – Present: Graduate Faculty, Master of Public Health Program, Kansas State University.

2003 – 2006: Adjunct Faculty, Department of Large Animal Clinical Sciences, Western College of Veterinary Medicine, University of Saskatchewan.

2002-2005: Veterinary Epidemiologist, Agri-Food Systems Branch, Food Safety Division, Alberta Agriculture, Food and Rural Development

Conflicts with other courses:

None

Reasons for the proposed course and how it fits into the curriculum:

This course would be the only comprehensive course on designing, analyzing and interpreting epidemiologic research. It extends the study design concepts introduced in DMP 854 (Disease Epidemiology) and applies the analytical concepts provided in STAT 717 (Categorical Data Analysis) and other statistical courses. It complements the experimental research concepts provided in STAT 720 (Design of Experiments) by providing instruction on analogous concepts in observational and epidemiologic research (rather than experimental research). Geared primarily toward PhD students, but appropriate for advanced MS students in epidemiology.

This course is currently being offered informally as Topics in Pathobiology courses: DMP 895 (MS) and DMP 995 (PhD).