

FALL SEMESTER, 2017

Updated 2/28/2017

ELECTIVE DESCRIPTION LIST - CLASS OF 2019

ADVANCED OPHTHALMIC PATHOLOGY

Credit Hours – 1 (lab only) VM 877 - **CRN 50145** Meets - Wednesday 2 – 5 pm in A301.

Course Coordinator: Dr. K. Newkirk - Instructors: Dr. K. Newkirk and Dr. D. Hendrix

Minimum enrollment – 2

Maximum enrollment – 5

This elective will demonstrate and correlate the clinical, gross and histologic findings of various common ophthalmic conditions. The specific cases can be targeted to species interests of the enrolled students (i.e. emphasis on large, small or exotic animals). Clinical and gross images as well as histology slides will be made available for review and then discussed in detail during the sessions. This course is targeted to 3rd year veterinary students with a strong interest in either ophthalmology or pathology.

ADVANCED SMALL ANIMAL CLINICAL NUTRITION

Credit Hours – 1 VMD 887 – **CRN 51785** Course Coordinator: Dr. A. Witzel & Dr. M. Murphy

Minimum enrollment – 12

Meets --- Wednesday 1-2 in C228 SACS classroom

Maximum enrollment - None

This course will be held on weekdays in 2017. The course will provide in-depth discussion of nutritional Management of common medical disorders, assisted feeding techniques, and formulation of homemade diets for dogs and cats. There will be 1 laboratory: the first part will provide hands-on experience formulating diets using computer software and the second part will focus on techniques for placing feeding nasal, esophageal and gastric feeding tubes. Grading is based on attendance and course project.

ADVANCED SWINE PRODUCTION (AKA ON-LINE SWINE)

Credit Hours – 1 VMD 897 – **CRN 50147** The course is online but for a single introductory meeting (**start date TBD in August**) Meetings and exams will be held in C215 LACS Media Room

Course Coordinator – Dr. Locke Karriker, Director of the Swine Medicine Education Center at Iowa State Univ. and on-site resource Dr. Lew Strickland (Dr. Kirk will aide electronic sign-up).

Minimum enrollment – 4 Maximum enrollment - 20

This is a self-directed on-line course with 14 core lectures. A UT faculty facilitator is available for questions and assistance. You will be able to access this content 24/7. Included in the course will be another 20 + short video clips that will give you virtual tours of things like a Sow Farm, Boar Stud, Nursery Facility, Vaccination Best Practices etc. This is a graded elective with a mid-term and final. More details will be available at the course introduction section. This course is essential for anyone thinking of swine practice or mixed animal practice and will considerable aide in performance on the NAVLE!

Junior Elective Schedule

AQUATIC ANIMAL HEALTH

Credit Hours – 1 VMD 887 - **CRN 47211** Meets - Wed.11-1 & Fri. 12 – 1 in room A203 Sequoyah Room, Course Coordinator: Dr. Andrew Cushing

Minimum enrollment – 5

Maximum enrollment – 20

This elective will introduce important and common diseases of aquatic invertebrates, fresh and marine water fish, aquatic birds, and marine mammals. The course, which includes a field trip to Ripley's Aquarium of the Smokies, will emphasize husbandry aspects as they pertain to normal health and specific disease processes in aquatic animals.

BOVINE PALPATION TEAM ELECTIVE

Credit Hour – 1 (P/NP) VMD 897 –**CRN 50985** Meets Wednesday 8-12 (3-4 hour block) at Little River Dairy. Start date is beginning of semester August 23rd.

Course Coordinator: Drs. Whitlock, Caldwell, Prado, Strickland, Lear, Collins

Minimum enrolment – 6

Maximum enrolment – 10

This is a course in reproductive physiology of cattle (male and female) and techniques and procedures used by veterinarians to determine pregnancy status in cattle will be taught one day each week (in a 3 to 4 hr block of time) in the morning during the fall semester of the third year of veterinary curriculum. Every week will include lecture (30 to 60 min) and lab (e.g. anatomy labs, palpation of tracts, and/or trans-rectal palpation of cattle) time. Lectures and labs may be taught at Cherokee Farm or Little River Dairy.

Grades will be based upon participation and performance on regularly scheduled knowledge and practical based examinations. Maximum enrollment 10 (if more than 10 individuals desire to enroll in the elective, a qualifying examination will be administered and the students with highest grades will be enrolled). At the end of the elective a knowledge and practical based examination will be administered to select students to compete in the SAVMA Bovine Palpation Competition (held annually in April or March).

CULTURAL INFLUENCES ON ANIMAL HEALTH CARE

Credit Hours - 1 VMD 897 – **CRN 50982** Class meetings will be 12-12:50 on selected MWF in C228 SACS classroom, Course Coordinator: T' Fisher; multiple guest speakers.

The Cultural Awareness elective introduces veterinary students to cultural differences that may impact the receptiveness of pet owners to the veterinary medical care of their animals. The course will include seminars, field experiences and class reading assignments. The elective will explore various cultures and groups, including underserved populations (elderly, homeless, disabled, low income) and cultures (Native American, Appalachian, Latino and African American). In addition, we will learn about animal perspectives of several religions and veterinary care for animals of military families.

Students will attend a wellness event for pets of homeless people as part of the elective.

Minimum enrollment - 5

Maximum enrollment – 25

Grading is based on attendance and participation.

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8/23/2017

EQUINE SPECIAL TOPICS

Credit Hours - 1 VMD 897 – **CRN 47209** Meets - Mon. Wed. & Fri. 12-1 in room C205 LACS classroom
Course Coordinator: Dr. C. Sommardahl - Instructors: Drs. C. Sommardahl, M. Hines, and guest speakers

Minimum enrollment - 4

Maximum enrollment - none

This elective is a series of lectures highlighting important information for the future equine practitioner. The information covered in these lectures is not covered in other lectures or will cover topics in greater depth than in other areas of the curriculum. The goal of these classes is to assist new graduates in their day to day activities as an equine practitioner.

FELINE MEDICINE

Credit Hours - 1 VMD 887 – **CRN 47208** Meets – Wed. 1 p.m., Friday 11 a.m., and Friday 1 p.m. in room A335.

Course Coordinator: Dr. K. Tolbert - Instructors: Multiple instructors

Minimum enrollment - 5

Maximum enrollment - 30

The feline medicine elective will cover multiple aspects of feline medicine to a greater degree than is presented in the core curriculum. Topics covered vary each year based on previous evaluations but usually include: internal medicine (infectious disease, endocrine disorders, respiratory disease etc), cardiology, ophthalmology, nutrition, dermatology, analgesia and anesthesia, soft tissue and orthopedic surgery, oncology, diagnostic imaging as well as special considerations of exotic felids.

FOOD ANIMAL PRODUCTION MEDICINE

Credit Hours - 1 VMD 897 – **CRN 47212** Meets – Wed at 1pm and Fri. 11am and 1pm in C205 LACS classroom. Course Coordinator: Dr. T. Prado.

Minimum enrollment - 4

Maximum enrollment - none

This elective is a series of lectures highlighting important information for the future large animal practitioner. The information covered in these lectures is not covered in other lectures or will cover topics in greater depth than in other areas of the curriculum. The goal of these classes is to assist new graduates in their day to day activities as a large animal practitioner in production and equine practice.

Last year's syllabus covered:

- 1) Introduction to Production medicine.
 - 2) Mastitis
 - 3) Internal/external parasite control
 - 4) Update on Toxicology in Beef/Dairy cattle
 - 5) Castration, implants
 - 6) General management of beef cattle
 - 7) Anesthetic protocols on the field for surgeries in cattle
 - 8) BVD
 - 9) Topics on food animal pharmacology
 - 10) Swine management
 - 11) Foot care
 - 12) Breeding management program beef/dairy cattle
 - 13) Current topic: bioterrorism/agro terrorism – biosecurity
 - 14) The critical periods of nutrition in beef cattle. Economics
 - 15) Dairy/beef health programs – Vaccinations
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FUNDAMENTAL TECHNIQUES IN LARGE ANIMAL SURGERY

Dr. P.Y. Mulon and Dr. Neal Valk - 1 credit hour VMD 897 - **CRN 51745**

Meets - **TBD**

Minimum enrollment – 5

Maximum enrollment – 15

The primary objective of this course is to better prepare students for entry level large animal veterinary practice by teaching and allowing them to practice surgical procedures commonly performed by large animal practitioners.

The course is predominantly hands-on with students being required to review assigned reading materials prior to each laboratory. Labs will begin with a brief introduction of planned procedures, including clinical indications, potential complications, limitations, contraindications, realistic prognoses and routine post-operative care. Procedures will be divided into Farm Animal Portion and Equine Portion.

INTRODUCTION TO LARGE ANIMAL ULTRASOUND

Credit Hours – 1 VMD 897 – **CRN 47210** Meets - Wednesday 2 – 5 pm in room A335.

Course Coordinator: Dr. C. Sommardahl

Minimum enrollment – None

Maximum enrollment - 10

Students will learn the basic techniques of ultrasound as a diagnostic tool in large animal veterinary medicine. The elective will cover abdominal, thoracic, and tendon ultrasound techniques along with ultrasound of swellings, masses, etc. The students will learn the basics of the ultrasound machine and be able to use different types of machines available. There will be a lecture at the beginning of each class, then a laboratory to view the ultrasound techniques and perform them.

SMALL ANIMAL DENTAL EDUCATION – Online Elective

1 credit hour – (VMD 887) – **CRN 50986** Online and Self-directed – **Sign-up of all Fall/Spring elective must be completed by September 1 – Drops not allowed after this date.**

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Minimum – 0 Maximum – 20 – Jr. for Fall/ 20 Spring (Jr. and Soph. for Spring assignments).

All content is due as of April 1, 2018 – regardless of semester assignment.

This course is an intensive study of modern dentistry techniques for dogs and cats. Each of the 10 modules stresses the importance of a thorough working knowledge of canine and feline dental and parodontal anatomy in the recognition and treatment of dental problems in dogs and cats. Clinical applications of anatomic information are utilized to reinforce important concepts. Specific topics feature dental pathology, radiology, extractions, and periodontal disease. The study modules are composed of PowerPoint slides with readable content. A quiz with minimum passing rate is required on each module prior to moving to the next phase. Students are given a Certificate of Dental Education upon completion of all 10 modules. Grading is A-F depending on the number of passing modules.

SMALL ANIMAL EMERGENCY AND CRITICAL CARE ELECTIVE

Credit Hours - 1 VMD 887 - **CRN 49210** Meets – M, W, F 12:00 – 1:00 p.m. in B224 Tickle Seminar
Course Coordinator: Dr. Adesola Odunayo - Instructors: Dr. Amanda Rainey, Dr. Julie Schildt
Minimum enrolment – 6
Maximum enrolment – 30

The Small Animal Emergency and Critical Care elective is offered to current third year veterinary students and will offer specific topics related to small animal emergency and critical care. These topics will include, Triage of the critically ill animal, Cardiopulmonary resuscitation, Transfusion Medicine, Acid/Base Abnormalities and Math for the Emergency Veterinarian. Students will listen to traditional lecture format presentation but will also have opportunities for case based discussions of topics covered. There will also be a 3 hour lab focused on common ECC procedures including central lines, nasogastric and esophageal feeding tubes, urinary catheters and thoracostomy tubes. The final grade for this Pass/Fail course will be determined by attendance, participation in group discussion and two take home exams.

SMALL ANIMAL SURGERY – SPAY/NEUTER CLINIC

Dr. Michelle Smallwood and Dr. Lane Anderson – 1 credit hour (VMD 887) – **CRN 50984**
Wednesday 7:15 – 12 JARTU Begins at the start of the semester – August 23rd.

This course will have major emphasis on the student gaining “hands on” experience in small animal surgery. Dogs and cats from a variety of humane animal shelters will be brought to the JARTU facility once weekly for a sterilization procedure. The students will rotate positions as primary surgeon, assistant surgeon, or anesthetist weekly throughout the semester. This course will require all students to meet weekly for the entire semester except during holiday breaks or ABLE weeks. We anticipate that most students will achieve a level of competence that will be equal to that of our graduating seniors. Number of surgeries as primary surgeon may vary with enrollment.

Maximum enrollment – 36

THE SCIENCE OF VISION

Credit Hours - 1 VM 887 – **CRN 50146** (Meets- Wed at 2pm-5pm)
Course Coordinator: Dr. D. Ward
Minimum enrollment - 2
Maximum enrollment - 5

In this class we will review journal articles pertaining to basic mechanisms underlying the visual process. Included will be studies on how the eye gathers and transmits light to the retina, the photochemistry of the retina, and comparative visual systems among different species.

Junior Elective Schedule