**VETERINARY CLINICAL STUDIES - MEDICINE COURSES (VMED)**

**VMED 600 Introduction to Clinical Veterinary Medicine I**
This course provides an introduction to clinical veterinary medicine for first year veterinary students, and includes sessions on management, restraint and physical examination of small animal patients. Laboratory sessions provide the opportunity for practicing physical examination and restraint of animals in supervised small groups. This course will be graded P/F.
Taught by: Dr. L. Waddell and Staff
Activity: Lecture
2.0 Credit Hours

**VMED 601 Introduction to Clinical Veterinary Medicine II**
Using a case-based organ/system approach, this course provides an introduction to the practice of clinical veterinary medicine in companion animals, and provides an introduction to special species companion animal, laboratory animal, and captive and wild animal veterinary practice. The course also introduces the concept of evidence-based medicine. Laboratory sessions provide exposure to auscultation, behavior abnormalities, clinical rounds discussion, grief management, nursing techniques and special species companion animal and laboratory animal examination.
Taught by: Dr. D. Clarke and Staff
Activity: Lecture
4.0 Credit Hours

**VMED 602 Introduction to Clinical Veterinary Medicine III**
This course provides an introduction to equine and production animal veterinary medicine for first year veterinary students, and includes sessions on management, restraint and physical examination of large animal patients. Laboratory sessions provide the opportunity for practicing physical examination and diagnostic procedures on horses and production animal species.
Taught by: Dr. E. Davidson and Staff
Activity: Lecture
4.0 Credit Hours

**VMED 603 Introduction to Radiology**
This lecture course is designed to provide the fundamental principles of clinical imaging in veterinary medicine as they pertain to physics and instrumentation. The emphasis is on radiography, but principles of ultrasonography, computerized tomography, magnetic resonance imaging and nuclear medicine are also discussed. Topics include production of diagnostic images, radiation safety, differences between the various imaging modalities and some features of normal radiographic anatomy of small animals (thorax and abdomen). The course includes a two-hour mandatory laboratory, focusing on case presentations with emphasis on thoracic and abdominal radiography.
Taught by: Dr. W. Mai and Staff
Activity: Lecture
2.0 Credit Hours

**VMED 604 Veterinary Medical Genetics**
The objective of this course is to provide a background for understanding the underlying mechanisms, distribution, and control of genetic disease in domestic animals. Emphasis will be on concepts and information useful on a clinical level. Problem-based learning exercises integrate the concepts presented in the course.
Taught by: Dr. P. Henthorn and Staff
Activity: Lecture
2.0 Credit Hours

**VMED 605 Nutrition**
Fundamental principles of nutrition are the background of recommendations for feeding various classes of animals. Types of foodstuffs and their nutrient composition are evaluated in relation to nutrient requirements, voluntary intake and food preferences of domestic species. Feeding programs for nutritional management of animal classes commonly encountered in veterinary medicine are discussed, and examples of clinical nutrition applications are presented.
Taught by: Dr. D. Pitta and Staff
Activity: Lecture
3.0 Credit Hours

**VMED 606 Principles of Epidemiology**
The fundamentals of descriptive, analytic, and clinical epidemiology will be covered as they relate to both population and individual animal problems in veterinary medicine. The major aims of the course are to provide an analytic basis for clinical decision making and the ability to interpret the veterinary literature for application in a practice setting. These aims will be accomplished by using examples to illustrate the epidemiologic approach to studying infectious and non-infectious disease, and in clinical decision-making.
Taught by: Dr. Gary Smith and Staff
Activity: Lecture
2.0 Credit Hours

**VMED 607 Veterinary Public Health**
This course examines the nature and scope of animal-human interactions with emphasis on the consequences of this relationship from an epidemiologic viewpoint. Included are the zoonotic diseases, those naturally transmitted from animals to man, and the role of pets in society. The traditional involvement of veterinarians in prevention and control of food borne diseases and in public health practice will also be discussed.
Taught by: Dr. Gary Smith and Staff
Activity: Lecture
3.0 Credit Hours

**VMED 608 Introduction to Poultry, Swine, and Dairy Medicine**
This course will cover clinical problem solving for disease diagnosis, treatment and control. In addition, current topics of interest in food animal medicine will be discussed. These include food safety, regulatory medicine, environmental impact, welfare issues and opportunities for food animal veterinarians. Class time will be used for both lecture and discussion. All material for quizzes will be presented in class. The grade for the course will be based on weekly quizzes.
Taught by: Dr. S. Davison and Staff
Activity: Lecture
2.0 Credit Hours
VMED 609 Infectious & Metabolic Diseases
A core course of lectures on infectious and metabolic diseases of domestic animals. The topics in this course include: Rabies, Lymphosarcoma, Blue Tongue, Parturient Paresis, Listeriosis, Anthrax, Botulism, Leptospirosis, Canine Distemper, and many other polysystemic diseases.
Taught by: Dr. R. Sweeney and Staff
Activity: Lecture
7.0 Credit Hours

VMED 610 Clinical Reproduction
Course covers reproduction in large and small domestic species, and includes the estrous cycle, heat detection, pregnancy, pregnancy loss, obstetrics, parturition, the postpartum period, male and female reproductive physiology, behavior, breeding soundness examination, and fertility problems. A two-hour problem solving session with the class divided into small groups will be held to discuss clinical cases. Grades will be based on a mid-term and a cumulative final examination.
Taught by: Dr. R. Turner and Staff
Activity: Lecture
5.0 Credit Hours

VMED 611 Veterinary Medicine/Surgery I
Principles of diagnosis, including radiology, and medical and surgical management of infectious and noninfectious diseases of the head, neck and chest, including diseases of the period, male and female reproductive physiology, behavior, breeding soundness examination, and fertility problems. A two-hour problem solving session with the class divided into small groups will be held to discuss clinical cases. Grades will be based on a mid-term and a cumulative final examination.
Taught by: Dr. V. Thawley and Staff
Activity: Lecture
9.0 Credit Hours

VMED 612 Veterinary Medicine/Surgery II
This portion of the Medicine/Surgery core course deals with the pathophysiology, clinical features, and medical and surgical treatment of hematologic, endocrine, nephrologic, urogenital and oncologic disorders. An examination covering the lecture material is administered after each section.
Taught by: Dr. B. Callan and Staff
Activity: Lecture
9.0 Credit Hours

VMED 613 Veterinary Medicine/Surgery III
This core course covers the important medical and surgical diseases of the gastrointestinal system and the medical aspects of neurological diseases. Specific disease topics will include noninfectious gastrointestinal disorders; hepatobiliary, pancreatic and splenic disorders; and central and peripheral neurological diseases of domestic animals.
Taught by: Dr. M. Rondeau and Staff
Activity: Lecture
8.0 Credit Hours

VMED 615 Dermatology
A core course of lectures discussing the infectious, ectoparasitic, allergic, autoimmune and metabolic cutaneous disorders of small animals, exotics and horses. Diseases are discussed with particular emphasis on pathogenesis, clinical recognition and treatment. Methods of diagnosis also are stressed so that the student is prepared to recognize and treat the various dermatoses met in the clinical year.
Taught by: Dr. D. Morris and Staff
Activity: Lecture
3.0 Credit Hours

VMED 616 Clinical Animal Behavior
Behavior problems are among the most frequent reasons for surrender and euthanasia of pets. In this course we will discuss the most common behavior problems of dogs and cats, with an emphasis on diagnosis and treatment using both behavior modification and drug therapy. Prognosis and safety issues will also be discussed. Attention will be paid to the thought process used in working up and/or preventing behavioral disorders.
Taught by: Dr. C. Siracusa and Staff
Activity: Lecture
1.0 Credit Hour

VMED 617 Veterinary Ethical Issues
The course goal is to enhance students overall ethical literacy. The course involves a combination of lectures on ethical theory and methodology, and group discussions of ethical case studies drawn from various branches of veterinary practice. The course will be graded as Pass/Fail and full attendance by all students is required unless otherwise pre-authorized by the course organizer.
Taught by: Dr. J. Serpell and Staff
Activity: Lecture
1.0 Credit Hour

VMED 618 Introduction to Clinical Veterinary Medicine IV
This year-long course for second year veterinary students is designed as a reinforcement of the first year introduction to clinical veterinary medicine series (VMED 600, 601, 602) and as a transition to the clinical year rotations. The emphasis is on practical experiences in our hospitals that will increase your clinical and technical skills as you familiarize yourselves with the hospitals facilities, policies and operations. The course will include approximately 11 hours of lecture; 32 hours of small-group practical clinical sessions per student (NBC) and 29 hours of small-group practical clinical sessions per student (MJR-VHUP). This will be a graded course - A, B, C or F.
Taught by: Dr. C. Dougherty, Dr. L. Southwood and Staff
Two terms. student must enter first term.
Activity: Lecture
4.0 Credit Hours
VMED 619 Emerging and Exotic Diseases
This course will be offered on the internet through the Association of American Veterinary Medical Colleges website. The Center for Food Security and Public Health at Iowa State University maintains the course and operates the learning management system. The course is part of a larger effort by US Department of Agriculture to improve awareness of and preparedness for foreign animal disease incursions among veterinarians and veterinary students. The ability of a veterinarian to suspect and assist in the diagnosis of a foreign animal disease in livestock or companion animals is crucial to safeguarding America's animals and agricultural sector and to protecting public health. In addition, the course also aims to convey a more comprehensive understanding of the role of accredited veterinarians in world agriculture. Parts of this course will be required training for subsequent USDA veterinary accreditation of new graduates. There will be a mandatory one hour session to introduce the course site, objectives, materials and requirements. The course site comprises six overview topics; four accreditation modules; nineteen case scenarios and twenty infectious disease inquiries. There are short tests associated with the various sections and students are required to score at least an 80% on each test. Students can take the test multiple times if needed to achieve that score. In addition to the course per se, there are numerous links to supplementary materials. The only other requirement is that a course evaluation must be completed. Students will have five weeks to complete the course requirements: (1) complete overviews 1-4 and 6 in their entirety and 10 out of 13 disease incursion examples in overview 5; (2) complete four accreditation modules; (3) complete nine required and three elective case scenarios; (4) complete five of the 20 infectious disease inquiries representing at least three species. If requested by students, a second session will be held one week prior to the deadline for completion of the online portion of the course to answer any questions and ensure students are able to complete all of the requirements. Otherwise, students with questions or concerns may contact the course organizer, Dr. Aceto, by email or telephone at any time during the course period.
Taught by: Dr. H. Aceto
Activity: Lecture
3.0 Credit Hours

VMED 620 Introduction to Clinical Veterinary Medicine V
This course will comprise 8 hours of lecture/classroom exercises and discussion per student in addition to a series of online tutorials. Two of the 8 hours of lecture time will be devoted to orientation and trouble-shooting sessions to help students access and complete the online tutorials. Students are expected to complete the online tutorials outside of the classroom setting. The online tutorials will demonstrate how to navigate the hospital computer systems at both campuses so that students will be familiar with them prior to entering the clinics in their fourth year. The material presented in this course will build upon principles learned in previous ICVM courses, specifically by providing further instruction on and practice of written and verbal communication skills and by building upon the orientation to the teaching hospitals provided in ICVM IV. After completing this course, students should be able to: - Describe and use key aspects of client communication skills that are essential in the veterinary medical setting. - Recognize and interpret common aspects of non verbal communication and understand how their non verbal communication can be used to improve their encounters with clients. - Understand and demonstrate the basic elements of a written discharge summary. - Navigate and utilize the electronic hospital systems on both campuses. The course will be pass/fail based upon attendance, completion of the on-line tutorials and completion of a discharge summary by each student for the dog that s/he spayed in the Clinical Exercises course.
Taught by: Dr. E. Krick and Staff
Course usually offered in fall term
Activity: Lecture
2.0 Credit Hours