VEM5150 Core Parasitology

SEMESTER: FALL 2021
CREDIT HOURS: 1 CREDIT HOUR
GRADING SYSTEM: A-E GRADING
PHASE: I

Course Coordinator

Name: Heather D S Walden, MS, PhD
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Office Hours: by appointment

Course Description

Core Parasitology is an introduction to Parasitology. This introductory course will cover examples of various helminth parasites (trematodes, cestodes, nematodes, acanthocephalans), protozoan parasites and arthropod parasites. This course focuses on basic life cycles, general identification and diagnosis. Primary diseases caused by parasites may be discussed, but that, along with treatment, are not the main learning outcomes of this course.

Student Learning Outcomes

After successful completion of this course, students will:

1. Define terms and phrases commonly used in veterinary parasitology.
2. Identify morphological characteristics of the adult and diagnostic stage of select helminth, protozoan and arthropod parasites of domesticated animals.
3. Describe, compare and contrast developmental life cycles of select helminth, protozoan and arthropod parasites of domesticated animals.
4. Identify zoonotic parasites and describe potential food safety issues in regard to select parasites.
5. Perform routine diagnostic procedures in parasitology.

Course Schedule

This weekly schedule contains topics, assignments, and exams. Please refer to Canvas for updates and announcements to any changes to this schedule.

Date and Time	*Location*	*Topic/Module/Unit*	*Faculty*	SLO # Above	*Contact Hours*
Dec 6 1:00 - 1:50pm	Lecture Hall A	Introduction to Parasitology	Walden	1	1.0
Dec 6 2:00 - 2:50pm	Lecture Hall A	Trematodes	Lee	2-3	1.0
Dec 7 1:00 - 1:50pm	Lecture Hall A	Trematodes	Lee	2-3	1.0
Dec 7 2:00 - 2:50pm	Lecture Hall A	Cestodes	Lee	2-4	1.0
Dec 8 1:00 - 2:50pm	Lecture Hall A	Nematodes	Walden	2-4	2.0
Dec 9 1:00 - 2:50pm	Lecture Hall A	Nematodes	Walden	2-4	2.0
Dec 9	**Open on Canvas 3:00pm**	**Quiz 1: Helminths/Intro**	**Due 10/10 at 9:00am**		
Dec 10 9:30am - 12:20pm	**Clinical Skills lab**	**LAB 1: Helminths/Intro Group B**	Walden/Lee	5	3.0
Dec 10 1:00 - 3:50pm	**Clinical Skills lab**	**LAB 1: Helminths Group A**	Walden/Lee	5	3.0
Dec 13 1:00 - 1:50pm	Lecture Hall A	Heartworm Clinical Correlate	Wuerz	5	1.0
Dec 13 2:00 - 2:50pm	Lecture Hall A	Protozoans	Walden	2-4	1.0
Dec 14 1:00 - 2:50pm	Lecture Hall A	Protozoans	Walden	2-3	2.0
Dec 15 1:00 - 2:50pm	Lecture Hall A	Arthropods	Walden	2-3	2.0
Dec 16 1:00 - 1:50pm	Lecture Hall A	Arthropods	Walden	2-3	1.0
Dec 16 2:00 - 2:50pm	Lecture Hall A	Exam review	Walden/Lee	1-7	1.0
Dec 16	**Open on Canvas 3:00pm**	**Quiz 2: Arthropods/Protozoans**	**Due 10/17 at 9:00am**		
Dec 17 9:30am - 12:20pm	**Clinical Skills lab**	**LAB 2: Arth/Protozoan Group A**	Walden/Lee	5	3.0
Dec 17 1:00 - 3:50pm	**Clinical Skills lab**	**LAB 2: Arth/Protozoan Group B**	Walden/Lee	5	3.0
Dec 20 9:30 -11:30am	**Examsoft**	**Final Exam**			
			Total		28.0

Course Delivery

Class lectures will be in held in Lecture hall A, Labs will be in the Clinical Skills lab (V2-126), unless otherwise specified. All lectures will be recorded and placed on the Canvas class page.

Students should have access to PowerPoint so it can be viewed as a ppt or pptx file, as well as access to Poll Everywhere.

Required Textbooks and/or Course Materials

Bowman. 2021. Georgis' Parasitology for Veterinarians, 11th ed.

Zajac and Conboy. 2012. Veterinary Clinical Parasitology, 8th ed.

All SAVMA notes, lecture and lab material and lecture PowerPoints will be available on Canvas.

Recommended Textbooks and/or Course Materials

See above, journal articles will be described in the course or made available through Canvas.

Methods of Evaluation

Grades will be calculated based on the following:

Weekly quizzes (2 quizzes, 10 points each)	20 pts
Laboratory diagnostic procedures	10 pts
Final exam	100 pts
Total	130 pts

Grading Scheme

Course grades will be assigned based on the following grading scheme. This grading scale is **final**.

A	100 – 90
B+	85 – 89
B	80 – 84
C+	75 – 79
C	70 – 74
D+	65 – 69
D	60 – 64
E	0 – 59

Course Policies

EXAMINATIONS: There will be one final exam at the end of the course. The exam will be a written exam consisting of 50 multiple choice questions and some questions will have photos along with a written question. The exam will be given online via Examsoft.

LABORATORIES: There will be two laboratories during this course. Your lab time will depend on your group assignment (**Group A or B**). *This is a full space, please pay attention to your lab time so you will have a spot at a microscope**. Lab times cannot be changed.*** Labs will be in the Clinical Skills lab on the second floor of the VAB, **V2-126.** The first lab will cover helminths and the second will cover arthropods and protozoans. Each laboratory will consist of a handout that will be helpful for the exam, and gross specimens and slides for viewing.

During lab, students will be required to complete **two diagnostic procedures**. These include a fecal flotation and Heartworm antigen test. You will receive a completion form at the first laboratory and each procedure must be signed and dated by Dr. Walden or Dr. Lee verifying completion of the procedure (i.e. we will observe you doing these procedures). This activity is worth **10 points** of your final grade.

Laboratory Dress Code: Closed-toe shoes are required, lab coat (if you have one) or scrubs is preferred but not required. Gloves will be provided. DO NOT BRING FOOD/DRINKS INTO THE LAB.

QUIZZES: There will be **2 quizzes given during the course.** These quizzes will be given online via Canvas and **due the day of laboratory session.** Quizzes will be **online** and you will need to do these **on your own**. THESE ARE NOT OPEN BOOK. Quiz 1 will cover the introductory lecture and helminths (trematode, cestodes, nematodes) and Quiz 2 will cover protozoans and arthropods. Each quiz will be worth **10 points and due prior to the start of the first lab session**. Quiz 1 and 2 will open on Canvas after the lectures prior to Lab 1 and 2, respectively. Make ups will not be given without an excused absence, please plan accordingly.

Curriculum Policies

DVM curriculum policies are consistently held and reinforced across all DVM courses. Please visit the DVM webpage and review the curriculum policies listed within the Online Student Handbook.

Students with Accommodations

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center by visiting www.disability.ufl.edu/students/get-started. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester. **Students in UF Health Sciences programs should be mindful that unique course accommodations may not be applicable in a clinical, fieldwork or practicum setting. Thus, planning a semester in advance with the DRC Health Sciences Learning Specialist, Lisa Diekow ldiekow@ufsa.ufl.edu , is highly encouraged.**

The DRC is located on the main UF campus. ASA (Office for Academic and Student Affairs) works closely with the DRC to ensure student accommodations are met in the classroom and during exams. Melissa Pett in ASA assists in coordinating exams and meeting recommended disability-related requirements for students with accommodations (melissacox@ufl.edu).

Course and Instructor Evaluation

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available on the GatorEvals Webpage. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via the Online Platform. Summaries of course evaluation results are available to students at the GatorEvals Public Results Webpage.

Appendix A: Faculty Lecturers

Faculty Name: Alice C. Y. Lee, DVM, PhD
Email: alice.lee@vetmed.ufl.edu

Faculty Name: Julia Wuerz, DVM
Email: wuerzj@ufl.edu