Parasitology Lab
BIO 4441/BIO 5441

Lecture: MWF 10:00-10:50am CAV 123
Lab: M 2:00-5:00 pm, CAV 018

Instructor

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Office Hours: MWRF 8:30-10:00am ; Other times by appointment

Course Description

Introduction to the parasites of man and animal with a survey of protozoan, helminth, and arthropod parasites from the standpoint of morphology, taxonomy, life histories, and host-parasite associations, integrated with examples spanning a broad range of topics including parasite community structure, parasite biogeography, and the evolution of host-parasite relationships.

Learning Outcomes

1. Gain a basic understanding of the subject (e.g., factual knowledge, principles, theories)
   - The student will be able to define parasitological terms, diagram life cycles of well-known parasites, and describe pathology caused by these parasites
2. Developing specific skills, competencies, and points of view needed by professionals in the field
   - The student will be able to identify well-known parasites in a laboratory setting
   - The student will be able to identify morphological features of common parasites

Text

(OPTIONAL) A Color Atlas of Parasitology by John T. Sullivan. (some will be available)
Handouts accompany the course and is posted on Blackboard. You can print this out and bring it to lab (recommended), or you can view it on a computer/tablet.

Attendance

Attendance is required for the lab portion of the course. Each unexcused absence will result in a 10% deduction of the final lab grade.

Quizzes and Exams

The lab will consist of three lab exams (practicals) and several quizzes. The practicals will cover all parasites that were covered in that unit. Most quizzes (mini-practicals) will be short and test knowledge of the parasites, including life cycles, pathology, and morphology.

Make-up Exams

No make-up exams or quizzes will be given unless prior approval is obtained. A missed exam or quiz will be recorded as a zero.

Presentation

Individual presentations will be given throughout the lab. The topic will be on a specific parasite. A 10 minute Powerpoint presentation will be given that describes the parasite, including morphological features, life history, and parasite-host interaction. The presentation must be emailed to the instructor 15 minutes before the start of lab.

Point Breakdown
The tentative percentage breakdown for each portion of the course is listed below:

Assignment	Percentage of Grade
Lab Practicals (3 at 25% each)	75%
Parasite Presentation	10%
Quizzes	15%

Academic Dishonesty, Special Accommodations, Title IX, Religious Holy Days, and COVID
Same information as the lecture also applies to the lab. See the lecture syllabus for more information.

Class Schedule
This schedule is tentative and subject to change. Presentation dates will be assigned at the start of each unit. Note that the last day to drop the course is April 28.

Week	Major Topic	Specific Topic
1/17/2022	**MLK HOLIDAY – NO LAB**	
1/24/2022	Platyhelminthes	Trematode: Morphology and Life Cycle Stages
1/31/2022	Platyhelminthes	All Trematodes
2/07/2022	Platyhelminthes	Monogenes and Cestodes
2/14/2022	Platyhelminthes	All Species Review
2/21/2022	**Lab Exam #1**	
2/28/2022	Nematoda; Acanthocephala	Enoplea and Hookworms
3/07/2022	Acanths, Nematomorphs, Pentastomes	Remaining Nematodes
3/14/2022	**SPRING BREAK**	
3/21/2022	Acanths, Nematomorphs, Pentastomes	All Species Review
3/28/2022	**Lab Exam #2**	
4/04/2022	Protozoa; Arthropoda; Nematomorpha	The Flagellates and Amebozoa
4/11/2022	Protozoa; Arthropoda; Nematomorpha	The Gregarines and *Monocystis lumbrici*
4/18/2022	Protozoa; Arthropoda; Nematomorpha	Apicomplexa and Protozoa review
4/25/2022	Protozoa; Arthropoda; Nematomorpha	Arthropoda and Protozoa review
5/02/2022	**Lab Exam #3**	
5/09/2022	**Final Exam Week: No Lab**	