

PARASITOLOGY BIO 354/554

Lecture Schedule

MW 11:30 AM-12:30 PM HS 266

F 10:20 AM-12:20 PM HS 30

Spring 2014

DATE	TOPIC	REF*	LAB (LIVE)
Feb 03	Parasitology Basics	1	Microscope use
Feb 05	Basics, cont.	1	
Feb 07	Lab 1		
Feb 10	Parasite Ecology and Epidemiology	2	Flagellates
Feb 12	African Trypanosomes	5	
Feb 14	Lab 2	4,5	
Feb 17	American Trypanosomes, <i>Leishmania</i>	5	Amebas and Ciliates
Feb 19	Other flagellates: <i>Giardia</i> and trichomonads	6	
Feb 21	Lab 3		
Feb 24	Amebas	7	Apicomplexans (<i>Plasmodium</i>)
Feb 26	Coccidia	8	
Feb 28	Lab 4		
Mar 03	Malarias	9	EXAM I
Mar 05	Malarias, cont.	9	
Mar 07	EXAM I		
Mar 10	Cestoda: <i>Diphyllobothrium</i> , <i>Taenia</i>	15,16	Cestodes
Mar 12	Cestoda: <i>Echinococcus</i> , <i>Hymenolepis</i>	16	
Mar 14	Lab 5		
Mar 17	Cestoda: <i>Dipylidium</i>	17	Non-schistosome Digenea
Mar 19	Digenea: <i>Fasciola</i> , <i>Dicrocoelium</i> , <i>Paragonimus</i>	18	
Mar 21	Lab 6		
Mar 24	Spring Break		Be Safe!
Mar 26			
Mar 28			
Mar 31	Digenea: <i>Chlonorchis</i>	20,21	Schistosomes (<i>S. mansoni</i> mice)
Apr 02	Digenea: Schistosomes	21	
Apr 04	Lab 7		
Apr 07	Digenea: Schistosomes	21	EXAM II
Apr 09	Nematoda: Order Trichurida	21	
Apr 11	EXAM II		
Apr 14	Nematoda: Rhabdita and Strongylida	22-23	Nematodes I
Apr 16	Nematoda: Ascarids	25	
Apr 18	Lab 8		
Apr 21	Nematoda: Oxyurids and Filariae	26	Nematodes II (Frog survey)
Apr 23	Arthropoda: Lice	27,29	
Apr 25	Lab 9		
Apr 28	Arthropoda: Bugs and Fleas	36	Diagnostics
Apr 30	Arthropoda: Diptera I; mosquitoes	37-38	
May 02	Lab 10		
May 05	Arthropoda: Diptera II; flies and arachnids	39	Arthropods and Vectors (<i>Brugia</i> mosquitoes)
May 07	Diptera, cont.	39	
May 09	Lab 11		
May 12	Vector control	39	EXAM III
May 14	TBA		
May 16	EXAM III		

*Chapter references in Foundations of Parasitology by Roberts and Janovy, 8th ed. Specific reading assignments may be given in class.

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Text and Lecture Notes

The text for this course is Foundations of Parasitology, 8th edition by Schmidt, Roberts and Janovy. The text is available in the bookstore and should be purchased prior to the first day of class. Additional reading assignments may be introduced in class.

Limited lecture notes and other course documents such as lab notes will be available through the course D2L site (<https://uwosh.courses.wisconsin.edu/>). You may want to consult the optional lab manual that is on D2L, written by Steve Upton at Kansas State, if you are interested in collecting and preserving parasites. Relevant communication will be done through the UWO e-mail system, it is the student's responsibility to make sure their UWO account is forwarded if they use an external e mail provider.

Course Objectives

In this course we will examine the impact of parasites on human and animal populations. Study of parasites will include host spectrum, geographic distribution, morphology, life cycles, pathogenesis, control measures, vector control and public significance. An overall effort to emphasize the evolutionary importance of host-parasite relationships will be made. Laboratory will familiarize students with the morphology and life habits of different parasites and vectors.

Graded Work

Lecture: Three combined lecture and laboratory exams are given on the indicated laboratory periods (see syllabus for dates). Each will be composed of objective and subjective questions and will cover both lecture and laboratory material. Undergraduate exams are worth 100 points each. There are 10 points of additional questions for graduate students on each exam. Graduate students are required to answer these questions, while undergrads may attempt to answer them for extra credit. Makeups of exams are not allowed except in the proven cases of severe illness of a student or death of an immediate family member. I reserve the right to determine the format and content of makeup exams. There will be no exceptions made.

Laboratory: The laboratory is used to reinforce and expand upon course material. In lab we will view preserved slides/specimens, pictures, and in some cases, live parasites within hosts. This often gets messy, and students are expected to clean their stations before they leave. Because live animal work takes considerable time, students may need to come back on their own time to view slides and preserved specimens.

Required readings: Two reading projects will be assigned worth 25 points each. The subject matter will be determined by the instructor. Graduate students may get more detailed reading assignments than undergrads, but their assignment will still be worth 25 points. Late assignments will lose 10% per weekday.

Graduate Review Paper: Graduate students will demonstrate their mastery of the primary literature by summarizing a series of articles on the parasite topic of their choice. Details will be provided later in the semester. Late assignments will lose 10% per weekday.

Attendance Policy

Attendance is expected for every lecture and lab session (see "Course Attendance" statement in the Undergraduate Bulletin). Lab attendance is particularly important since no formal make-up labs will be provided. If you know that you will miss a lab, contact me in advance for other possible arrangements.

Outside Readings

Outside reading assignments may be used to supplement text/lab material. Copies of the readings will be placed on reserve or handed out in class. You will be responsible for all reading material on exams.

Grading Scale The following grading scale will be used as a guideline. A grade book is continually available on the D2L site so you can check your progress.

<u>Percentage</u>	<u>Grade</u>
93-100	A
90-92	A-
87-89	B+
82-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
67-69	D+
64-66	D
60-63	D-
<60	F

Point Distribution

	Undergraduate	Graduate
Lecture exams (3 total)	300 pts	330 pts
Graduate Review Paper	--	50 pts
Reading assignments (2 total)	50 pts	50 pts
Total	350 pts	430 pts

For The Graduate Students taking Bio 554:

Graduate students will have the following additional objectives activities in order to receive graduate credit for Parasitology.

Objectives:

- 1) Graduate students will be expected to demonstrate a greater depth of knowledge of the material compared to undergraduate students.
- 2) Graduate students will be expected to demonstrate a higher level of synthesis than undergraduate students.
- 3) Graduate students will be expected to demonstrate a more sophisticated level of communication than undergraduates.

In order to meet the graduate objectives, they will have to answer at least one additional essay question on each exam that is designed to test their ability to synthesize information from lecture and apply it to a more complex problem than is expected from undergraduates. They will also complete a review paper that requires them to find pertinent information in the current primary literature and present it in a concise written review. Therefore, the point total will be slightly higher, but the grades will be based on the same percentage system as shown above. In addition, a grade less than a C is a failing grade for graduate students.

Academic Integrity

Students are expected to uphold the guidelines of academic integrity put forth by University of Wisconsin-Oshkosh. Violation of these standards (i.e. cheating) will result in formal written reprimand, a failing grade for the course, and possible disciplinary probation.

Common Courtesy

A ringing cellular phone disrupts the learning process of your neighbors. Please turn off all cell phones and pagers prior to class. Please text outside of class.

Americans with Disabilities Act:

UWO is committed to providing accommodations and/or services to students with documented disabilities. Students who are seeking support for a disability should contact Disability Services, 125 Dempsey Hall. Phone: 424-3100; TTY 424-1319; email www.tts.uwosh.edu/dean/

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