

## PARASITOLOGY BIO 354/554

Tentative Lecture Schedule  
M, W 11:30 AM-12:30 PM  
Spring 2007  
HS 237

DATE	LECTURE	TOPIC	REF*	LAB
Jan 29	1	Parasitology Basics	1	
Jan 31	2	Ecology and Evolution of Parasitism	2	Microscope use
Feb 02		Lab 1		
Feb 05	3	Host Parasite Interactions	3	
Feb 07	4	Intro to Protozoa, Trypanosomes	4,5	Flagellates
Feb 09		Lab 2		
Feb 12	5	Trypanosomes and Leishmaniasis	5	Amebas and
Feb 14	6	Other flagellates: <i>Giardia</i> and trichomonads	6	Ciliates,
Feb 16		Lab 3		Discussion
Feb 19	7	Amebas	7	
Feb 21	8	Intro to Apicomplexans ( <i>Eimeria</i> )	8	Apicomplexans
Feb 23		Lab 4		
Feb 26	9	Malarias	9	Non-
Mar 28	9	Malarias, cont.	9	Schistosome
Mar 02		Intro to Trematodes, <i>Alaria</i> , Schistosomes		Trematodes
Mar 05	10	Lab 5	15,16	
Mar 07	10	Schistosomes, cont.	16	
Mar 09		<b>EXAM I (Lecs 1-9)</b>		<b>EXAM I</b>
Mar 12	11	Trematodes II: Fasciolidae	17	
Mar 14	12	Trematodes III: <i>Dicrocoelium</i> , <i>Chlonorchis</i>	18	Schistosomes
Mar 16		Lab 6		
Mar 19		Spring Break		
Mar 21		Spring Break		
Mar 23		Spring Break		
Mar 26	13	Intro to Cestodes, non-taeniids	20,21	
Mar 28	14	Cestodes I: Pseudophyllidae	21	Cestodes
Mar 30		Lab 7		
Apr 02	15	Cestodes II: Taenidae, <i>Taenia</i> spp.	21	
Apr 04	16	Cestodes III: Hymenolepidae	21	
Apr 06		<b>EXAM II (Lecs 10-16)</b>		<b>EXAM II</b>
Apr 09	17-18	Intro to Nematodes, Order Trichurida	22-23	
Apr 11	19	Nematodes: Rhabdita and Strongylida	25	Nematodes I
Apr 13		Lab 8		
Apr 16	20	Nematodes: Ascarids	26	
Apr 18	21	Nematodes: Oxyurids and Filariae	27,29	Nematodes II
Apr 20		Lab 9		
Apr 23	22	Arthropods: Lice	36	
Apr 25	23	Arthropods: Bugs and Fleas	37-38	Diagnostics
Apr 27		Lab 10		
Apr 30	24	Arthropods: Diptera I; mosquitoes	39	
May 02	25	Arthropods: Diptera II; flies and arachnids	39	Arthropods
May 04		Lab 11		
May 07	25	Diptera, cont.	39	
May 09	25	Ticks and Mites	41	
May 11		<b>EXAM III (Lecs 17-25)</b>		<b>EXAM III</b>

\*Chapter references in Foundations of Parasitology by Roberts and Janovy, 7th 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, 7th edition by Schmidt, Roberts and Janovy. The text is available in the bookstore and should be purchased prior to class on February 3<sup>rd</sup>. Also available in the bookstore is Parasite Rex, by Carl Zimmer. Assignments and discussion of Parasite Rex will be announced during the semester. 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/>). IT IS HIGHLY RECOMMENDED THAT YOU DOWNLOAD AND PRINT UPTON'S ANIMAL PARASITOLOGY LAB MANUAL AT: <http://www.k-state.edu/parasitology/classes/biol625.html>. 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 parasites of medical or veterinary importance, or those that are just plain interesting. Study of parasites will include taxonomic classification, host spectrum, geographic distribution, morphology, life cycles, pathogenesis, control measures 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.

When you complete this course you should be able to:

1. Discuss the importance of parasites in various ecological roles
2. Demonstrate an understanding of how parasites impact human affairs and history
3. Identify the major families and certain species of parasites
4. Demonstrate a working knowledge of how parasites grow and reproduce, and where and how they can be isolated
5. Read primary literature and compile a scientific review paper.
6. Demonstrate an understanding of pathogenesis caused by parasitic infection

## **Graded Work**

**Lecture:** Three lecture exams are scheduled during 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 will be worth 100 points each. There will be 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. Makeup lecture exams will be given the last week of the semester (May 9-13). I reserve the right to determine the format and content of makeup exams. There will be no exceptions made.

**Laboratory:** The laboratory section will be used to reinforce and expand on course material, and will require independent work on your own time. In lab we will view commercial slides, pictures, and in some cases, view live parasites living within hosts. Students will make a wet mount of four parasites, worth 20 points each. **THIS WILL REQUIRE OUT OF CLASS TIME. No lab makeup exams will be given for any reason.**

**Required readings:** Two reading projects will be assigned worth 25 points each. The subject matter will pertain to assigned chapters within Parasite Rex and possibly additional provided materials. 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.

**Paper:** You will be assigned a writing project, worth 50 points for undergrads and 60 for grads. 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>
92-100	A
87-91	AB
82-86	B
77-81	BC
70-76	C
66-69	CD
60-65	D
<60	F

### **Point Distribution**

	<b>Undergraduate</b>	<b>Graduate</b>
Lecture exams (3 total)	300 pts	330 pts
Lab slides	80 pts	80 pts
Paper	50 pts	60 pts
Reading assignments (2 total)	50 pts	50 pts
<b>Total</b>	<b>480 pts</b>	<b>520 pts</b>

### **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.

### **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/](http://www.tts.uwosh.edu/dean/)

### **Contact Information:**

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