

## **PARASITOLOGY BIO 354/554**

### **Lecture Schedule**

**MW 11:30 AM-12:30 PM HS 457**

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

**Spring 2012**

DATE	TOPIC	REF*	LAB
Jan 30	Parasitology Basics	1	Microscope use
Feb 01	Basics, cont.	1	
Feb 03	Lab 1		
Feb 06	Parasite Ecology and Epidemiology	2	Flagellates
Feb 08	African Trypanosomes	5	
Feb 10	Lab 2	4,5	
Feb 13	American Trypanosomes, <i>Leishmania</i>	5	Amebas and Ciliates
Feb 15	Other flagellates: <i>Giardia</i> and trichomonads	6	
Feb 17	Lab 3		
Feb 20	Amebas	7	Apicomplexans
Feb 22	<b>Quiz 1</b> , Coccidia	8	
Feb 24	Lab 4		
Feb 27	Malarias	9	<b>EXAM I</b>
Feb 29	Malarias, cont.	9	
Mar 02	<b>EXAM I</b>		
Mar 05	Digenea: <i>Alaria</i>	15,16	Other Digenean Trematodes
Mar 07	Digenea: Schistosomes	16	
Mar 09	Lab 5		
Mar 12	Digenea: <i>Echinostoma</i> , <i>Fasciola</i>	17	Cestodes
Mar 14	Digenea: <i>Dicrocoelium</i> , <i>Chlonorchis</i>	18	
Mar 16	Lab 6		
Mar 19	<b>Spring Break</b>		<b>Be Safe!</b>
Mar 21			
Mar 23			
Mar 26	Cestoda: <i>Diphyllobothrium</i> , sparganosis	20,21	Schistosomes
Mar 28	<b>Quiz 2</b> , Cestoda: Pseudophyllidae	21	
Mar 30	Lab 7		
Apr 02	Cestoda: Taenidae, <i>Taenia</i> spp.	21	<b>EXAM II</b>
Apr 04	Cestoda: Hymenolepidae	21	
Apr 06	<b>EXAM II</b>		
Apr 09	Nematoda: Order Trichurida	22-23	Nematodes I
Apr 11	Nematoda: Rhabdita and Strongylida	25	
Apr 13	Lab 8		
Apr 16	Nematoda: Ascarids	26	Nematodes II
Apr 18	Nematoda: Oxyurids and Filariae	27,29	
Apr 20	Lab 9		
Apr 23	Arthropoda: Lice	36	Diagnostics
Apr 25	Arthropoda: Bugs and Fleas	37-38	
Apr 27	Lab 10		
Apr 30	Arthropoda: Diptera I; mosquitoes	39	Arthropods
May 02	<b>Quiz 3</b> , Arthropoda: Diptera II; flies and arachnids	39	
May 04	Lab 11		
May 07	Diptera, cont.	39	<b>EXAM III</b>
May 09	Ticks and Mites	41	
May 11	<b>EXAM III</b>		

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

LECTURER: DR. SHELLY MICHALSKI phone: (920) 424-7082 e mail: [michalsk@uwosh.edu](mailto:michalsk@uwosh.edu)

## **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. 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/>). You may want to consult the optional lab manual that is on D2L, written by Steve Upton at Kansas State. 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 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.

## **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. Makeup lecture exams will be given the last week of the semester. 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 many 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 pertain to assigned chapters within Parasite Rex and 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. You will also have three Parasite Rex quizzes on D2L throughout the semester, each worth 15 points.

**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.

**Quizzes:** Three in-class quizzes will be given, for a total of 15 points. Quiz dates are indicated on the syllabus.

## **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
90-93	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**

	<b>Undergraduate</b>	<b>Graduate</b>
Lecture exams (3 total)	300 pts	330 pts
Quizzes (3 total)	15 pts	15 pts
Graduate Review Paper	--	50 pts
Reading assignments (2 total)	50 pts	50 pts
<b>Total</b>	<b>365 pts</b>	<b>445 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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