

## Parasitology 350—Spring 2012

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### **Course information.**

Meeting time: 8:50-9:40 a.m., M, W, F

Location: Room 113 Psychology Building ([see campus map](#))

Final exam: May 15, 5:05-7:05 PM, Location: To be announced

### **Instructors.**

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\*Email will generally be responded to within 24 hours. If your question is one that is likely relevant to everyone, replies will be sent to the class as a whole. To maintain anonymity, your name will be removed from the question before the response is posted to the class. If you do not want the response sent to everyone, please clearly state this in your email.

**General description.** This course is designed to provide you with a basic understanding of protozoan and metazoan parasites, focusing on the biology and epidemiology of parasitic diseases and on the parasite-host association. Special emphasis will be placed on those parasites of major medical/veterinary consequence, because parasites continue to be one of the primary causes of morbidity and mortality throughout the world. It is anticipated that you will obtain an awareness of the importance and complexity of these diseases, and how they impact the majority of the world's population that is less fortunate than those of us living in developed countries.

Unlike previous years, there is no laboratory class offered.

**Text.** Roberts, LS and Janovy, J. Foundations of Parasitology. 8th edition. McGraw-Hill, 2009. ISBN: 978-0-07-302827-9 (recommended). It is an excellent reference and supplement to the material presented, so we have provided suggested reading assignments in your lecture schedule. In general, however, information that you will be expected to know for examinations will be covered in the lectures. Please see suggested readings and relevant publications that are posted in the additional resources section of the course website for additional resources and reading.

**Format.** The primary focus of lectures will be on the biology and epidemiology of parasitic diseases, and on complexity of the parasite-host association. Content will be presented on the blackboard. Additional information is available through the lecture outline in the course website, and in the text. Occasionally, we will have guest lectures on specific topics. The speakers are UW faculty members and highly recognized scientists, current in the fields of research and clinical parasitology and global health.

**Grading.** Your grade will be based on 3 exams and 7 announced quizzes. Quizzes will be very short, announced 1 lecture in advance, and will primarily cover material provided in the series of lectures preceding the quiz, as well as that which is contained in the course website. The lowest 3 quiz scores will be dropped, and as a result, no make-up quizzes will be offered. Past experience has shown that quizzes provide a necessary incentive for you to keep up with the material, thereby making preparation for the exams much easier. The major exams will be primarily objective, but may include some short essay-type questions. All exams and quizzes will be returned to you at the following lecture. You will have the opportunity to look over your exams, but exams must be returned to the instructor at the end of class (on the day they are returned) in order for your grade to be recorded.

<b>Evaluation</b>	<b>% grade</b>	<b>Date</b>	<b>Comments</b>
Exam # 1	30	Feb (24)	-
Exam # 2	30	Mar (26)	-
Exam # 3	30	TBA	Final exam is not comprehensive.
7 Quizzes	10	Announced	Given at beginning or end of lecture period. Lowest 3 scores will be dropped. No make-up quizzes will be offered.

Final grades will be determined on a percentage basis, but will take into account overall class performance and natural "breaks" in score distribution.

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## Parasitology 350 (Spring 2012) Lecture Schedule

Date	Day	Topic	Reading
JAN 23	<b>M</b>	Introduction to Parasitology	Chapter 1
25	<b>W</b>	Principles & Concepts	Chapter 1-2
27	<b>F</b>	Principles & Concepts	Chapter 1-2
30	<b>M</b>	Principles & Concepts	Chapter 1-2
FEB 1	<b>W</b>	Introduction to Protozoa	Chapter 4 (p 43-54), 5 (p 61-64)
3	<b>F</b>	American trypanosomiasis	Chapter 5 (p 70-75)
6	<b>M</b>	African trypanosomiasis	Chapter 5 (p 64-70)
8	<b>W</b>	Leishmaniasis	Chapter 5 (p 76-85)
10	<b>F</b>	Other flagellates, amebas	Chapter 6 (those discussed), 7 (p 107-115)
13	<b>M</b>	Apicomplexa, coccidians	Chapter 8
15	<b>W</b>	Toxoplasmosis, cryptosporidiosis	Chapter 8
17	<b>F</b>	Malaria	Chapter 9
20	<b>M</b>	Malaria	Chapter 9
22	<b>W</b>	Other hemosporids/Ciliophora	Chapter 9, 10 (p 176-178)
24	<b>F</b>	<b>EXAM I</b>	
27	<b>M</b>	Exam critique/Intro to Platyhelminthes	Chapter 13 (p 199-204)
29	<b>W</b>	Platyhelminthes/Trematoda (Fukes)	Chapter 15
MAR 2	<b>F</b>	Digenean trematodes	Chapter 15
5	<b>M</b>	Liver flukes	Chapter 17, 18
7	<b>W</b>	Lung/intestinal flukes	Chapters 17, 18
9	<b>F</b>	Schistosomes (Dr. Tim Yoshino)	Chapter 16
12	<b>M</b>	Cestodes (Tapeworms)	Chapter 20
14	<b>W</b>	Caryophyllideans/Pseudophyllideans	Chapter 21 (p 338-358)
16	<b>F</b>	Cyclophyllideans	Chapter 21 (p 338-358)
19	<b>M</b>	Cyclophyllideans	Chapter 21 (p 338-358)
21	<b>W</b>	Cyclophyllideans	Chapter 21 (p 338-358)
23	<b>F</b>	Echinococcosis	Chapter 21 (p 351-355)
26	<b>M</b>	<b>EXAM 2</b>	
28	<b>W</b>	Exam critique, Intro to Nematoda	Chapter 22
30	<b>F</b>	Intro to Nematoda	Chapter 22
APR 2	<b>M</b>	<b>Spring Recess</b>	
4	<b>W</b>	<b>Spring Recess</b>	
6	<b>F</b>	<b>Spring Recess</b>	
9	<b>M</b>	Whipworms, trichinellosis	Chapter 23
11	<b>W</b>	<i>Strongyloides</i> , hookworms	Chapter 24, 25 (p 417-424)
13	<b>F</b>	Ascarids/pinworms	Chapter 26 (p 431-438), 27

Date	Day	Topic (guest lecturer)	Reading
APR 16	<b>M</b>	Geohelminths & Child health	none
18	<b>W</b>	Onchocerciasis	Chapter 29
20	<b>F</b>	Filariasis	Chapter 29
23	<b>M</b>	Filariasis	Chapter 29
25	<b>W</b>	Other Filarial worms, Guinea worms	Chapter 29
27	<b>F</b>	Acanthocephala, Intro to Arthropoda	Chapter 30 (p 479-483), 33
30	<b>M</b>	Arthropods/Diptera (flies)	Chapter 39
MAY 2	<b>W</b>	Culicidae (Mosquitoes)	Chapter 39 (600-608)
4	<b>F</b>	Mosquito-borne diseases	Chapter 39
7	<b>M</b>	Lice and Fleas (Plague)	Chapter 36, 38
9	<b>W</b>	Ticks & Disease	Chapter 41 (638-641)
11	<b>F</b>	Other topics/Catch-up/Review	

**FINAL EXAM: Tuesday, 15 May, 5:05 – 7:05 PM (Location TBA)**