

Biology 353, Spring 2015

Introduction to Parasitology

Prerequisite: Bio 212

Recommended text: Gerald D. Schmidt and Larry S. Roberts' Foundations of Parasitology; Roberts and Janovy; McGraw Hill

Course Description: Parasitology is the study of parasitic organisms and relationships with their hosts. In this course we will study examples of important parasites of humans and animals. There will be an emphasis on parasites of medical importance. We will discuss techniques of parasite identification. The lectures will be based around taxonomy of parasites focusing on major groups of parasites their morphology, their lifecycles, and how they affect the host.

Student written report: 2-3 pages on a parasite based on 2 primary research articles. Articles should be chosen (and approved) by February 4th. An initial outline is due by March 13th and the final paper is due April 10th.

Student presentations: 5-10 minute presentation on a particular parasite and host relationship. We will have some presentations during the course beginning on Jan, 27th. The second to the last day is reserved to finish the presentations.

Disability Statement: If you have a disability and require accommodations, please contact the instructor early in the semester so that your learning needs may be appropriately met. You will need to provide documentation of your disability to the Disability Resources (DR) office, located on the main floor of the Student Services Building, Rm 1076, 515-294-6624.

Lecture Topic:

1) Jan. 13th	Introduction Parasitology	Chapters: 1,2,3 Jones
2) Jan. 15th	Protozoa – Intro Kinetoplasts	Ch. 4, 5 Jones
3) Jan. 20th	Protozoa – Kinetoplasts cont. Other Flagellates	Ch. 6 Jones
4) Jan 22nd	Protozoa – Ameba	Ch. 7 Jones
5) Jan. 27th	Protozoa - Apicomplexa	Ch.8 Brewer
6) Jan. 29th	Protozoa - Apicomplexa	Ch.9 Brewer
7) Feb. 3rd	Protozoa - Celiophora, Microsporidia, Myxozoa	Ch. 10, 11 Brewer
8) Feb. 5th	EXAM 1	
9) Feb. 10th	Helminths - Intro	Ch. 12, 13 Brewer
10) Feb. 12th	Helminths – Aspido, Monogenea	Ch. 14, 19 Brewer
11) Feb. 17th	Helminths – Digenea	Ch. 15, 16 Prince
12) Feb. 19th	Helminths – Digenea	Ch. 17, 18 Prince
13) Feb. 24th	Helminths – Cestodes	Ch. 20, 21 Brewer
14) Feb. 26th	Helminths – Cestodes	Ch. 20, 21 Brewer
15) March 3rd	EXAM 2	
16) Mar. 5th	Helminths – Intro: Nematodes	Ch. 22, 23 Jones
17) Mar. 10th	Helminths – Nematodes	Ch. 24, 25 Beetham
18) Mar. 12th	Helminths – Nematodes	Ch. 26,27 Beetham
Mar. 17th	Spring Break	
Mar. 19th	Spring Break	

19) Mar. 24th	Helminths – Nematodes	Ch. 28, 29 Jones
20) Mar. 26th	Helminths – Miscellaneous	Ch. 30, 31, 32 Jones
21) March 31st	EXAM 3	
22) April 2nd	Arthropods – Intro, Crustacea	Ch. 33, 34 Brewer
23) April 7th	Arthropods – Pentastomes, Lice,	Ch. 35, 36 Brewer
24) April 9th	Arthropods – bugs, fleas	Ch. 37, 38 Brewer
25) April 14th	Arthropods – Flies	Ch. 39 Jones
26) April 16th	Arthropods – Ticks, Mites	Ch. 41 Jones
27) April 21st	Arthropods – Ticks, Mites	Ch. 41 Jones
28) April 23rd	Exam 4	
29) April 28th	student presentations	
30) April 30th	Presentations/Review	

		Points:
Student written report	10%	100
Student presentation	10%	100
four exams	40%	400
one final	30%	300
Quizzes	10%	100