

January 14, 2019

Biol 362/Parasitology lab Spring 2019

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LECTURES: Science Building 403 - P Tues 11:45AM - 3:35PM.

OFFICE HOURS: Tues 340PM-430PM or by appointment

TEXTS: Laboratories procedures will be provided weekly on Blackboard and/or in class.

RECOMMENDED TEXTS:

PARASITOLOGY: AN INTEGRATED APPROACH. GUNN, A., & PITT, S. J. (2012). JOHN WILEY & SONS.
ISBN-13: 978-0470684238

Handbook of Biological Statistics located online at
<http://udel.edu/~mcdonald/statintro.html>

SCIENTIFIC WRITING AND COMMUNICATION: PAPERS, PROPOSALS, AND PRESENTATIONS. by
Angelika Hofmann Oxford University Press, USA; 2 edition) ISBN-13: 978-0199947560

Diana Hacker, *A WRITER'S REFERENCE*, 7th Edition, Bedford: Boston. Hacker also has a free web
site: ISBN-13: 9780312601430 <http://www.bedfordstmartins.com/hacker/writersref/>.

COURSE DESCRIPTION: The life histories, ecology, and host-parasite relationships of animal parasites, with emphasis on those of humans and other organisms. This course will further explore environmental influences on parasite populations.

PREREQUISITES: BIO 105K/106K.

CO-OFFERED: Parasitology Lab (BIO 361/ESP399).

COURSE GOALS AND OBJECTIVES: Students completing Parasitology should be able to participate in the science of ecology by:

- Identify common (i.e. well studied) taxonomic groups of endoparasites and ectoparasites found in human and other organisms.
- Describe common diseases associated with parasites.
- Become familiar with common methods for collection and Identification of parasites.

ON-LINE SUPPORT: This course has a Blackboard site with announcements and course materials will be

made available.

ATTENDANCE is required. Students are expected to arrive on time for lab. Missing more than two labs may cost a letter grade. Two unexcused absences result in an automatic F.

INTEGRITY AND CIVICS: In accordance with USM policy (and basic decency), students are expected to do their own work and not appropriate or plagiarize the works of others. Proper behavior is expected in the classroom, lab, and field at all times. Cell phones should be off.

ASSESSMENT:

93-100 = A	77-79 = C+
90-93 = A-	73-77 = C
87-89 = B+	70-73 = C-
83-87 = B	Less than 70 = D
80-83 = B-	Less Than 60 = F

GRADING: Please refer to the Blackboard and Tentative Course Schedule for the exam dates other due dates. Please keep track of your own grades. Blackboard is simply a means of recording grades. The final course grade is calculated at the end of the semester.

Calculating Grades: Grades are weighted as shown below. For example, if you receive on average 90% for your write-ups, then you would multiply 0.9×70 to get $63 = 63\%$ out of a possible 70%.

- Participation 10%
 - Prelab Questions (Tentative) and Weekly write-ups 45%
 - 2 x laboratory practicums 25%
 - Laboratory Portfolio 20%
1. Exams: There will two laboratory practicums during the course. The slides and specimens that we review over the course of the semester will be available for your individual review over the course of the semester for each exam.
 2. We plan to provide pre laboratory question each week that will be posted on Blackboard site. Please pay attention to the due dates for additional assignments. Note: It is your responsibility to complete the prelab quiz questions on time. Typically quizzes will be made available 1 week prior to the topic as covered in the course schedule.
 3. The Portfolio. Students will maintain a laboratory portfolio. Portfolios will include the weekly laboratory assignments (drawings and answered questions), corrected exams, and laboratory notebook. Microscopes will be outfitted with wireless digital cameras allowing students to download and digitally curate images that they collect using smart phones, tablets, MacBooks, or laptops. Students are encouraged to bring their tablets and laptops to laboratory. Guides will be provided with stepwise directions for proper digital curation of images.
 4. Of course digital images do not completely replace good old-fashioned hand-drawn diagrams

and you will still be required to make detailed diagrams of what you see each week. We expect that if all goes as expected, compiling both hand-drawn illustrations and labelled digital images will help you get the most out of your parasitology laboratory experience.

ADA: We are committed to providing course adaptations or accommodations as needed. Since we all learn in different ways, please do not hesitate to let me know your needs. I will do my best to accommodate. If you need course adaptations because of a disability, please contact the USM Disability Service Center, 242 Luther Bonney, Email: dsc-usm@maine.edu, Phone: (207) 780-4706 <https://usm.maine.edu/dsc>. If you have already received a faculty accommodation letter from the Disability Services Center, please provide me with that information as soon as possible and we will make a private appointment to review your accommodations.

Tentative course schedule: subject to change due to weather or other factors.

DATE	TOPIC
January 22	Introduction. Lab Safety and the Portfolio
January 29	Identification of protozoan parasites (Part 1) (prepared slides)
February 5	Identification of protozoan parasites (Part 2) (prepared slides)
February 12	Identification of protozoan parasites (Part 3) (prepared slides)
February 19	Identification Helminth parasites
February 26	Identification Helminth parasites
March 5	Nematodes
March 12	Review Period 2-4 Exam (midterm) 4-6 (mid-semester portfolio review)
March 19	No Classes Winter Break
March 26	Nematodes
March 30	Arthropod parasites
April 6	Fecal Float
April 13	Possible field lab
April 20	Worms, Cockroaches, and gregarines!
April 27	TBA (Overflow laboratory)
May 4	Turn in completed portfolio; final Exam.