

## LAB SYLLABUS FOR PARASITOLOGY (ZOO 4234L) : Fall 2016

Lab Instructor: Paul Sharp, PhD

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Office hours (OE 229): Tues. (3:45-4:45PM)

Thurs. (5:00-6:00PM)

**Required Lab Supplies:** The following supplies are available at the FIU Campus Bookstore and are **mandatory** for admission to the lab:

1. Sullivan, J.T. *A Color Atlas of Parasitology*.
2. Lab coat (**Long sleeve shirts are not acceptable**)
3. Lab goggles/glasses
4. Lab folder and colored pencils

Grades are based on a 100 point scale (90% = A, 80% = B, 70% = C, etc.) No Rounding.

**There will be NO curve** The grades will be based on the following sections:

- **Quizzes: 40%**
- **Notebook check (Midterm 5%, Final Exam 5%): 10%**
- **Practical Exams (Midterm 25%, Final Exam 25%): 50%**
- **Total = 100%**

**Quizzes:** There will be a quiz **every week** at the beginning of each lab. The material will cover the previous lab. The lowest quiz grade will be dropped. You will also receive a grade of **0** if you arrive in lab after the quiz has been handed out. **There will be no make-up quizzes given.**

**Notebook:** There will be 2 notebook checks during the semester. Each will be submitted before the midterm practical and the second before the final practical. A 1 inch 3 ring binder will first include a title page with your name, panther ID, and laboratory section. The **1<sup>st</sup> section** will include the Syllabus, Laboratory Safety and Microscope Rules, and Slide Box Information handout. The **2<sup>nd</sup> section** will include **colored** drawings of specimens, with organs/structures **labeled**, in chronological order with its own divider. Specimen drawing pages should be printed out before your laboratory section at Blackboard. The **3<sup>rd</sup> section** will include all quizzes and practical(s) in chronological order with its own divider. The **4<sup>th</sup> section** will include your lab notes and handouts in chronological order with its own divider. Use dividers to separate the 4 aforementioned sections of your notebook.

**Practical Exams:** There will be a midterm and a final practical exam on the dates listed on the schedule. Due to the nature of the laboratory practical exams, you will also receive a grade of **0** if you are late. There will be **no make-up exams** given.

*Emphasis.* Questions on lab exams will stress material specifically covered in lab, primarily morphology, taxonomy, host(s) and target organ. The questions will be asked from the specimens themselves; therefore, you will have to recognize the specimen and/or anatomical part indicated - **on sight** - and fill in the information requested. For example, questions might read: "Name the genus and species of this organism" or "Give the structure indicated by the pointer. Be specific." As a general rule, you will need to know the classification of all animals you study, **including those on demonstration down to order**, plus the genus and species of those whose morphology you study in detail.

*Other helpful information.* Learning to recognize and name parts of the anatomy of animals is difficult or impossible using only diagrams; hence, it is extremely important to study the specimens themselves intensively. Use diagrams and descriptions in the lab manual as guides. Concentrate while you are in lab. When you think you have learned a series of structures, ask your neighbor to quiz you, and you do the same for him/her. **Lab materials will be available for study only during scheduled laboratory periods.**

## LABORATORY SCHEDULE FOR PARASITOLOGY (ZOO 4234L)

| Lab.#. | Week of | Exercise and lab manual chapter references   |
|--------|---------|--|
| 1      | 22 Aug  | Microscope use (Handout & Appendix)  |
| 2      | 29 Aug  | Digenetic trematodes (Chapt. 6)  |
|        | 5 Sept  | <b>Labor Day Holiday (No Parasitology Lab)</b>   |
| 3      | 12 Sept | Digenetic trematodes (Chapt. 6)<br>Begin Permanent Slide Preparation of “unknown” parasite                             |
| 4      | 19 Sept | Cestoidea (Chapt. 7)<br>Complete Permanent Slide Preparation of “unknown” parasite                                     |
| 5      | 26 Sept | Cestoidea (cont.); Acanthocephala (Chapt. 8), Monogenea<br>Fecal smear of live <i>Hymenolepis diminuta</i> oncospheres |
| 6      | 3 Oct   | <b>LAB PRACTICAL (begins 1 hour after normal lab start time)</b>   |
| 7      | 10 Oct  | Nematoda (Chapt. 8)<br><i>Ascaris lumbricoides</i> dissection  |
| 8      | 17 Oct  | Nematoda continued (Chapt. 8)  |
| 9      | 24 Oct  | Examination of vertebrates for parasites   |
| 10     | *31 Oct | Flagellates (Chapt. 1,2); Amoebas (Chapt. 3 in part)   |
|        | 7 Nov   | <b>Veterans Day Holiday (No Parasitology Lab)</b>  |
| 11     | 14 Nov  | Ciliates (Chapt 3 in part); Malaria (Chapt. 5)   |
|        | 21 Nov  | <b>Thanksgiving Holiday (No Parasitology Lab)</b>  |
| 12     | 28 Nov  | <b>LAB PRACTICAL (begins 1 hour after normal lab start time)</b>   |

\*October 31, 2016: Last day to drop with a DR grade

*Syllabus may be subject to change!*