

Privacy Act: Because of the Buckley Amendment or Privacy Act, grades will not be discussed over the phone, via email, given to friends, or given to relatives

Cheating: Refer to the Student Code of Ethics in the Valdosta State University Student Handbook. A student caught cheating will be penalized ranging from receiving a zero for that assignment or test to failing the class.

Important Dates: **Midterm day**, TBD, **FINAL EXAM: August 1 9:35AM – 11:35PM**

*** The Instructor reserves the right to modify the above contents with proper notification.**

Other Assignments/Case History Assignments: Your instructor MAY periodically assign some tasks to be completed during class or outside of class. These can be based on lab exercises or lecture material. Your grade will be determined by how well you complete the assignment. Point values remain to be determined.

Laboratory Portfolio (200 points)

In laboratory, you will be preparing an exhaustive series of original drawings of your observations of parasites and vectors through the microscope. Each lab unit has a series of designated drawings you are to do. These are to be drawings of your observations through a microscope, not of your ability to copy an image at home from a picture. Should it become necessary that I check every notebook at the end of each lab I will. I will spot check notebooks during lab to see that you are making satisfactory progress. Each drawing should be on the laboratory drawing sheet and should be labeled to include identification of the image and magnification. Any significant features of your drawing should be labeled. You will be graded on effort (which isn't hard to determine) **NOT** on artistic ability. Keep these drawings in a notebook and **PROTECT IT CAREFULLY!** You will also scan each of these images and at the end of the semester, you will turn in an original AND electronic portfolio.

Due Date: One day after the final laboratory period.

Powerpoint Assignments (50 points)

For these assignments, you will do a "research powerpoint" on a parasite topic from a list that I will provide. Include a complete description of the parasite/group that you choose

Course Outcomes:

Course:

By the end of BIOL 3870

processors, spreadsheets, database management systems, or statistical packages. They will be able to find information using computer searching tools.

4. Students will express themselves clearly, logically, and precisely in writing and in speaking, and

Tentative Lecture Outline - This is the order in which we will cover topics.

TOPIC

Introduction to Parasitology

Basic Principles and Concepts I: Parasite Systematics, Ecology and Evolution

Basic Principles and Concepts II: Immunology and Pathology

Parasitic Protozoa: Form, Function, and Classification

Kinetoplasta: Trypanosomes and Their Kin

Other Flagellated Protozoa

The Amebas

Phylum Apicomplexa: Gregarines, Coccidia, and Related Organisms

Phylum Apicomplexa: Malaria Organisms and Piroplasms

Phylum Ciliophora: Ciliated Protistan Parasites

Phyla Microspora and Myxozoa: Parasites with Polar Filaments

The Mesozoa: Pioneers or Degenerates?

Introduction to Phylum Platyhelminthes

Trematoda: Aspidobothrea

Trematoda: Form, Function, and Classification of Digeneans

Digeneans: Strigeiformes

Digeneans: Echinostomatiformes

Digeneans: Plagiorchiformes and Opisthorchiformes

Monogenoidea

Cestoidea: Form, Function, and Classification of the Tapeworms

Tapeworms

Phylum Nematoda: Form, Function, and Classification

Nematodes: Trichinellida and Dioctophymatida, Enoplean Parasites

Nematodes: Tylenchina, Pioneering Parasites

Nematodes: Strongyloidea, Bursate Rhabditians

Nematodes: Ascaridomorpha, Intestinal Large Roundworms

Nematodes: Oxyuridomorpha, Pinworms

Nematodes: Gnathostomatomorpha and Spiruromorpha, A Potpourri

Nematodes: Filarioidea, Filarial Worms

Nematodes: Dracunculoidea, Guinea Worms, and Others

Lecture Exams:

- 1 – July 8 or 9
- 2 – July 16 or 17
- 3 – July 31

Final Exam: August 1, 9:35-11:35AM

Tentative Lab Schedule:

Lab 1 – Order Trypanosomatida – Trypanosomes

Lab 2 – Order Kinetoplastida – Leishmania

Lab 3 – Other Flagellate Protozoa

Lab 4 – Phylum Ciliophora

Lab 5 – Phylum Sarcodina

Lab 6 – Phylum Apicomplexa- Plasmodium vivax

Lab 7 – Phylum Apicomplexa – Plasmodium falciparum

Lab 8 – Phylum Apicomplexa – Coccidia

Lab 9 – Phylum Platyhelminthes – Order Strigeiformes

Lab 10 – Echinostomatiformes

Lab 11 – Nematoda I

Lab 12 – Nematoda II

Lab 13 – Cestoda

Lab 14 – Ectoparasites

Lab Exam 1 – July 15

Lab Exam 2 – July 30