

Biology 3403:001 & MC1– Parasitology – Spring 2015
Lecture M-W-F 11:00-11:50 WSB 107 (AMS 2)
Lab (Alpine) M 1:00-2:50 WSB 109
Lab (Midland) M 1:00-2:50 FOX 131
Syllabus

Instructor: Dr. Chris M. Ritzi

Office: WSB 216

Phone: 837- 8420

Email: critzi@sulross.edu

Office hours: TR 2-4

MW 9-10

or by appt.

MC Proctor: Ethel Matthews

Fox 104

685-6733

ematthews@midland.edu

Class Website: <http://sulross.blackboard.edu> and <http://faculty.sulross.edu/critzi/>

Text: Foundations of Parasitology. Ninth edition. Roberts, L.S., J. Janovy, Jr., and S. Nadler

Course Description: This course is designed to allow an exploration into the various aspects of parasitology. Emphasis will be placed on the life cycles of major parasitic organisms attacking humans and animals (wild and domestic). This course will not deal with viral or bacterial pathogens, as these are the covered by other courses in our curriculum). The following are the major objectives of the course:

1. To develop an understanding of and appreciation for the nature and evolution of parasitic associations.
2. To develop an understanding of the terminology used in parasitology.
3. To understand the ecology and life cycles of a variety of host-parasite associations.
4. To develop an understanding of the modifications (physiological, morphological, and behavioral) needed to assume a parasitic lifestyle.

Program Learning Outcomes

The graduating biology student graduating with a BS in Biology should be able to:

- 1) Demonstrate a mastery of aerobic respiration and its significance for living organisms.
- 2) Be able to identify evolution and the processes that influence it.
- 3) Be able to identify the components of cell structure and their functions.
- 4) Compare the fundamental concepts of Mendelian genetics.
- 5) Compare and contrast the process of photosynthesis to other cellular processes.
- 6) Be able to identify the processes of molecular biology.

Grading: Your grade will be assigned based on the percentage of points you get out of a total possible 900 points. (100pt lecture exams (2), final exam (200 pt), 100 pt lab exams (3), 100 pt disease report, and 100 pt attendance and participation).

Tests: There will be a total of 2 regular in-class exams, each worth 100 points. The final is two exams, a regular exam of material since the last test, and a comprehensive exam over the prior two exams. If you miss an exam and have a legitimate excuse, contact me within 24 hours of the test and we will arrange a make-up test. If you do not contact me within 24 hours, you will receive a zero on that exam. Graduate students will be required to complete all undergraduate course requirements, and additionally complete research question take-home exams that will assess their ability to extrapolate the information beyond the lectures.

Attendance: Students missing 20% of lectures (9 lectures) AND/OR labs (3 labs) shall be dropped from the class per the SRSU catalog. Any student dropped for excessive absences will receive an F for the course grade. Please notify your instructor BEFORE missing class for authorized activities, death in the family, or illness. Exams missed for any reason must be made up within one week of the originally scheduled date. REGARDLESS OF WHY AN ABSENCE OCCURS, YOU MAY BE GIVEN AN F FOR THE COURSE GRADE IF YOU ACCUMULATE NINE ABSENCES.

Students with disabilities will be provided reasonable accommodations. If you would like to request such accommodations because of physical, mental, or learning disability, please contact the ADA Coordinator for Program Accessibility at 837-8203, FH 112.

Lecture courtesy: The general rules of classroom etiquette are below.

- 1) Please do not talk to others in class while the instructor is lecturing. If you have a question, ASK THE INSTRUCTOR! That's what I'm here for.
- 2) No eating, chewing, dipping, etc.
- 3) Please turn cell phones and pagers to silent while in class. They are disruptive to the entire class, and detract from learning.
- 4) Excessive tardiness and early departure are distracting to your fellow classmates, and can negatively impact your grade.

TENTATIVE LECTURE OUTLINE

DATE	LECTURE TOPIC	CHAPTER
Jan 21	Introduction	1
Jan 23	Host-parasite relationships	2-3
Jan 26	Host-parasite relationships (continued)	2-3
Jan 28	Host-parasite relationships (continued)	2-3
Jan 30	Parasitic Protists	4
Feb 2	Trypanosomes (continued)	5
Feb 4	Trypanosomes (continued)	5
Feb 6	<i>Leishmania</i>	6
Feb 9	Trichomonads	6
Feb 11	<i>Giardia</i>	6
Feb 13	Amebas	7
Feb 16	Amebas (continued)	7
Feb 18	Intro to Apicomplexa	8
Feb 20	Apicomplexa – Coccidia thru Microspora	9, 11
Feb 23	Apicomplexa – Coccidia thru Microspora	9, 11
Feb 25	Exam I – Chapters 1-11	
Feb 27	Platyhelminthes – Flukes	13-15
Mar 2	Platyhelminthes – Flukes (continued)	15-16
Mar 4	Platyhelminthes – Flukes (continued)	17-18
Mar 6	Platyhelminthes – Tapeworms	20
Mar 9	Platyhelminthes – Tapeworms (continued)	20-21
Mar 11	Platyhelminthes – Tapeworms (continued)	21
Mar 13	Nematoda	22
Mar 16	Spring Break – No Class	
Mar 18	Spring Break – No Class	

Mar 20	Spring Break – No Class	
Mar 23	Nematoda (continued)	22-25
Mar 25	Nematoda (continued)	22-25
Mar 27	Nematoda (continued)	26-30
Mar 30	Nematoda (continued)	26-30
Apr 1	Exam II – Chapters 13-30	
Apr 3	Other Worms (Acanthocephala thru Pentastomida)	32&35
Apr 6	Other Worms (Acanthocephala thru Pentastomida)	32&35
Apr 8	Other Worms (Acanthocephala thru Pentastomida)	32&35
Apr 10	Arthropods – Crustaceans	33
Apr 13	Arthropods – Crustaceans	34
Apr 15	Arthropods –Intro to Insects	36
Apr 17	Insecta - Lice and true bugs	36-37
Apr 20	Insecta - Lice and true bugs (continued)	36-37
Apr 22	Insecta - Lice and true bugs (continued)	36-37
Apr 24	Insecta - Fleas	38
Apr 27	Insecta – Fleas (continued)	38
Apr 29	Acari - Mites	41
May 1	Acari – Mites and Ticks (continued)	41
May 4	Acari – Mites and Ticks (continued)	41
May 6	Acari – Mites and Ticks (continued)	41
May 8	Dead Day	
May 13 10:15 am	Exam III/Final Exam – Chapters 32-41 +	

Note – This outline is subject to change for reasons of course interest, time constraint, or instructor whim. The exams will be administered on the dates given, unless material relevant for a given exam has not been covered. Under such cases, an exam may be moved a class period or two to aid in the clarity and understanding of the material.