

Biology 1313 General Zoology (3 credits) **Summer II 2020 Sul Ross State University**

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Make sure my email address is spelled correctly.

TEXTBOOK NOT REQUIRED. If you need a resource to clarify information, you may find a used copy of this text floating around somewhere! Actually, any Zoology text will work. This is the one I used when creating this course:

Miller, Stephen A. and John P. Harley. 2013. *Zoology*, 9th edition. McGraw Hill.
ISBN 978-0-07-352417-7; ISBN 0-07-352417-4

Course Description: General Zoology provides a general survey of the animal kingdom, which considers the fundamentals of biological facts, laws, and principles as they apply to animals and functions of the organs and systems of representative animals.

**To participate in this web-based course, you need the following:

- A computer capable of running Windows 7 or later, or Mac OSX 10.8 or later
- The latest version of a web browser (Chrome recommended)
- Adobe Acrobat Reader
- High Speed Internet Access and ability to access websites
- Webcam for virtual meetings and discussions
- Proficiency with PowerPoint

EXAMS & ASSIGNMENTS: A total of three exams and five assignments will be given. If you have a valid excuse to miss an exam/assignment, you must contact me in **advance** and you have no more than two days to make it up. Failure to do so will result in a zero – no exceptions. Due dates will be posted, so it is your responsibility to participate and complete tests and assignments on time. *I will post all assignments and exams in Blackboard, AND you will submit them through Blackboard.*

GRADING.	Three Lecture Exams (3 @ 100 pts ea)	300
	Required email exercise	20
	<u>Assignments #1 - #5 (20 pts ea)</u>	<u>100</u>
TOTAL COURSE POINTS		420

OBJECTIVES:

- 1) Students will identify, recall, and label basic cellular structures and processes.
- 2) Students will classify organisms within the Kingdoms Protista and Animalia.
- 3) Students will be able to summarize and explain the processes of evolution.
- 4) Students will demonstrate understanding of the genetic code and how it relates to protein synthesis.
- 5) Students will understand how physiological systems such as digestion function.

Biology Program Learning Outcomes (PLOs):

1. Demonstrate an understanding of evolution.
2. Demonstrate an integration of environmental awareness into everyday modern life.
3. Understand how to incorporate molecular biology into the study of the whole organism.
4. Demonstrate utilization of various field techniques toward addressing scientific questions in the discipline.
5. Conduct basic laboratory experiments utilizing standard observational strategies.

TENTATIVE LECTURE OUTLINE

Chapters correspond to optional text

DATE	TOPIC
July 01-03	Introduction to Zoology Zoology & Ecological Perspectives Chemistry of Life <i>Email exercise & A#1 due</i>
July 06-10	Cells, Tissues, Organs; Mitosis Inheritance (Meiosis & DNA Structure) Cellular Respiration EXAM #1; A#2 due
July 13-17	Evolution: History & Evidence Evolution: Gene Frequencies Reproduction & Development Animal Classification (Taxonomy) <i>A#3 due</i>
July 20-24	Poriferans Cnidarians Platyhelminthes Annelids EXAM #2; A#4 due And we <i>finally</i> get to ANIMALS this week!
July 27-31	Nematodes Mollusks Arthropods Intro to Chordates Fishes <i>A#5 due</i>
Aug 03-07	Amphibians Reptiles Birds EXAM #3

MARKETABLE SKILLS: A student getting a degree in the Biological sciences would be expected to acquire the following marketable skills by graduation.

- 1) Students will be able to organize, analyze, and interpret data.
- 2) Students will be proficient at using presentation software.
- 3) Students will acquire experience in managing time and meeting deadlines.
- 4) Students will gain the ability to speak effectively and write concisely about scientific topics.
- 5) Students will acquire experience and guidance in the development of professional email correspondence.

CORE OBJECTIVES ADDRESSED:

- Team Work
- Communication
- Critical Thinking Skills
- Empirical and Quantitative Skills
- Social Responsibility
- Personal Responsibility

Distance Education Statement: Students enrolled in distance education courses have equal access to the university's academic support services, such as library resources, online databases, and instructional technology support. For more information about accessing these resources, visit the SRSU website. Students should correspond using Sul Ross email accounts and submit online assignments through Blackboard, which requires secure login information to verify students' identities and to protect students' information. The procedures for filing a student complaint are included in the student handbook. Students enrolled in distance education courses at Sul Ross are expected to adhere to all policies pertaining to academic honesty and appropriate student conduct, as described in the student handbook. Students in web-based courses must maintain appropriate equipment and software, according to the needs and requirements of the course, as outlined on the SRSU website.

Sul Ross State University is committed to equal access in compliance with the Americans With Disabilities Act of 1973. It is the student's responsibility to initiate a request for accessibility services. Students seeking accessibility services must contact Counseling and Accessibility Services, Ferguson Hall, Room 112. The mailing address is P.O. Box C-171, Sul Ross State University, Alpine, Texas 79832. 432-837-8203