

**Biology 1111 General Botany Lab (1 credit)  
Summer I 2020 Sul Ross State University**

**Lab Instructor:** Eli Duarte  
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**Lab Manual:** *Discover the Chihuahuan Desert: General Botany. A Laboratory Manual for Biology 1401*, 2nd Edition by J. Zech and A. Michael Powell. **(Accessible via Blackboard)**

**Grading:** Your grade contributes 200 points toward your lecture grade. Points in labs are gained through 3 lab practical exams (50 pts each) & 5 quizzes throughout the session (10 pts each - 50 pts total).

**Exams/Quizzes:** A total of 3 lab practical exams will be administered. The practicals will be a combination of questions from the lab manual and include visual identification. Except for the 3rd practical exam, you must stay after the exams for lab lecture that day. Quizzes will be administered in a random fashion along the same style. If you miss an exam or quiz and have a legitimate excuse, contact me within 24 hours of the test.

**BIOLOGY PROGRAM'S STUDENT LEARNING OUTCOMES (SLOs):**

- 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.

**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*

### LAB SCHEDULE

W May 20	Intro to Botany Lab Lab 1: Microscope
M May 25	<b><i>Memorial Day – No Classes</i></b>
W May 27	Lab 2: The Cell and Cell Replication Quiz #1
M Jun 1	Lab 3: Roots ~ Primary Growth Lab 4: Stems ~ Primary/Secondary Growth Quiz #2
W Jun 3	<b>LAB PRACTICAL EXAM #1</b> Lab 5: Leaves
M Jun 8	Lab 6: Classification Lab 7: Bacteria, Algae, and Fungi Quiz #3
W Jun 10	Lab 8: Non-Vascular Plants Lab 9: Seedless Vascular Plants Quiz #4

M Jun 15

**LAB PRACTICAL EXAM #2**

Lab 10: Vascular Seed Plants – Gymnosperm

W Jun 17

Lab 11: Vascular Seeds Plants – Angiosperm

Lab 12: Seeds and Fruits

Quiz #5

M Jun 22

**LAB PRACTICAL EXAM #3**

Grading:	5 quizzes @ 10 points each	50 pts
	<u>3 Lab Exams @ 50 pts each</u>	<u>150 pts</u>
	Total	200 pts