

SUL ROSS STATE UNIVERSITY – GENERAL BOTANY LAB (BIOL 1111) – SUMMER II 2021

Professor: Jeff Keeling

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Office Hours: by appointment

Class hours: Monday and Tuesday, 3:00 p.m. – 6:00 p.m.

Text: Zech, J. C. and A. M. Powell. 2016. Discover the Chihuahuan Desert: General Botany. A Laboratory Manual For Biology 1111, 3rd Edition. Sul Ross State University, Alpine, TX. (REQUIRED)

Course Outline:

Week #	Subject
1 7/12 - 7/13	Lab 1 Planting and Plant Diversity Lab 2 The Cell and Cellular Replication Lab 3 Roots and Primary Growth Lab 4 Stems and Secondary Growth
2 7/19 - 7/20	Lab 5 Leaves Lab 6 Classification MIDTERM Review Lab 7 Bacteria, Fungi, and Algae
3 7/26 - 7/27	MIDTERM Lab 8 Non-Vascular Plants Lab 9 Seedless Vascular Plants
4 8/2 – 8/3	Lab 10 Vascular Seed Plants: Gymnosperms Lab 11 Vascular Seed Plants: Angiosperms (Flowers) Lab 12 Vascular Seed Plants: Angiosperms (Fruit) FINAL Review
5 8/9	FINAL

Learning Objectives

1. The student will be able to demonstrate an understanding of basic biological concepts, including but not limited to the makeup of biological molecules, cell structures and functions, the structural hierarchy and physiological processes of living organisms; plant evolution via natural selection, taxonomy, and plant life cycles.
2. The student will be taught how to utilize the general and specialized knowledge learned in this class in various subdisciplines of applied plant sciences including but not limited to agronomy, forestry, floriculture, floristics, systematics, plant propagation, fruit and vegetable culture,

landscape design, ecology and natural resource management, and others that involve specialized field techniques.

3. The student will be able to demonstrate effective knowledge on the role plants have had throughout the course of geologic history as well as the vast significance they have in both our modern economy and ecology.
4. The student will be able taught how to grow plants in a laboratory setting as well as how to collect, analyze, and interpret results gathered through observation and experimentation. The student will also be taught how to organize this data and information in the standard format of most scientific journals.

#### Class Organization:

1. Roll will be taken during each class meeting. The SRSU catalog states “The instructor may, at his discretion, drop a student from a course when the student has a total of nine absences. An absence is defined as non-attendance in fifty minutes of class. Nonattendance in a one and one-half hour class will constitute one and one-half absences.” **RULE TO LIVE BY: DON’T MISS ANY CLASSES!**
2. Cheating on any exam or assignment will result in an F for that material and possible expulsion from the class with a grade of F.
3. Missed exam policy: No make-up exams will be provided for an unexplained missed exam. If you miss an exam without an excused absence, you will receive a score of 0 for that exam. Make-up exams will be provided for any authorized missed exams, but must be completed within one week of the original exam date.
5. It is Sul Ross State University Policy to provide reasonable accommodation to students with disabilities. If you would like to request such accommodations because of physical, mental, or learning disability, please contact the ADA Coordinator for Program Accessibility.

#### Grades:

Two Practical Exams @ 50 points each = 100 points

Lab Report @ 50 points

TOTAL = 150 points

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**SRSU DISABILITY SERVICES:** Sul Ross State University (SRSU) is committed to equal access in compliance with Americans with Disabilities Act of 1973. It is SRSU policy to provide reasonable accommodations to students with documented disabilities. It is the student’s responsibility to initiate a request each semester for each class. Students seeking accessibility/accommodations services must contact Rebecca Greathouse Wren, LPC-S, SRSU’s Accessibility Services Coordinator at 432-837-8203 (please leave a message and we’ll get back to you as soon as we can during working hours), or email [rebecca.wren@sulross.edu](mailto:rebecca.wren@sulross.edu). Our office is located on the first floor of Ferguson Hall (Suite 112), and our mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas, 79832