

GENERAL BOTANY LAB (BIOL 1111) – SYLLABUS – SPRING 2020

Lab Instructors: Eli Duarte
Isabella Mooney

email: epd15rg@sulross.edu
ixm13et@sulross.edu

Office: WSB 214

Phone: WSB 214: 432-837-8715

Office Hours: Duarte: Tu: 10:00 – 12:00 p.m.; W: 11:00 – 1:00 p.m.; Th: 10:00 – 12:00 p.m.

Mooney: M: 1:00 – 4:00 p.m.; Tu: 10:00 – 12:00 p.m., 2:00 – 3:00 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.

Schedule:

Jan 15/16	Lab 1: Planting and Plant Diversity
Jan 22/23	Lab 2: The Cell and Cellular Replication
Jan 29/30	Lab 3: Roots: Primary Growth
Feb 5/6	PRACTICAL EXAM (Assigned Lab Times)
Feb 12/13	Lab 4: Stems: Primary and Secondary Growth
Feb 19/20	Lab 5: Leaves (Lab Report Introduction Draft Due)
Feb 26/27	Lab 6: Classification
Mar 4/5	PRACTICAL EXAM (Assigned Lab Times, Material/Methods Draft Due)
Mar 11/12	SPRING BREAK (NO CLASSES)
Mar 18/19	Lab 8: Non-Vascular Plants
Mar 25/26	Lab 9: Seedless Vascular Plants (Results/Discussion Draft Due)
Apr 1/2	Lab 10: Vascular Seed Plants (VSP): Gymnosperms
Apr 3	LAST DAY TO DROP WITH A W
Apr 8/9	Lab 11: VSP: Angiosperm Flowers (FINAL LAB REPORT DUE)
Apr 15/16	Lab 12: VSP: Angiosperm Fruits
Apr 22/23	PRACTICAL EXAM (FINAL) NO LABS
Apr 29/30	NO LABS
May 6/7	NO LABS

Grading: The final grade is determined by the total points gained by the total points possible and the scale below. There will be no deviation from this scale:

Grading Scale (percent of total points): A: 90-100; B: 80-89; C: 70-79; D: 60-69; F: 59 and lower.

- Three Practical Exams @ 50 points each = 150 points
- Lab Report 50 pts
- Total 200 pts

Attendance: Attendance is highly recommended to do well in this course. Labs cannot be repeated after the last section on Thursday. If it's necessary to attend another section, please contact your instructor before lab to ensure space is available. Practical Exams must be taken on their scheduled dates with very few exceptions.

Labs meet every week in WSB 206: Lab 1: Weds 1-2:50; Lab 2: Wed 3-4:50; Lab 3: Weds 7-8:50; Lab 4: Thurs 2-3:50; and Lab 5: Thurs 4-5:50.

Rules: NO CHILDREN; NO CHEATING (UNIVERSITY POLICY); NO FOOD OR BEVERAGES; NO TOBACCO; NO HEADPHONES; NO FEET ON THE FURNITURE; NO CELLPHONES; NO EXTRA TIME FOR EXAMS IF YOU ARE LATE.

STUDENT LEARNING OUTCOMES:

- The student will be able to demonstrate an understanding of basic biological concepts, including but not limited to evolution via natural selection, cell theory, and the role and function of DNA.
- The student will be able to demonstrate utilization of various field techniques toward addressing scientific questions in the specific discipline. These field techniques can include, but are not limited to, plant collection and processing, various animal collection techniques, ecological surveying and sampling, and biodiversity indexing.
- The student will be able to use biological instrumentation to solve biological problems using standard observational strategies.
- The student will develop writing skills by summarizing and critiquing recent relevant biological literature.

MARKETABLE SKILLS:

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.

DISABILITIES INFORMATION: 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. Please contact me, Ms. Rebecca Greathouse Wren, M.Ed., LPC-S, Director/Counselor, Accessibility Services Coordinator, Ferguson Hall (Suite 112) at 432.837.8203; mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas 79832. Students should then contact the instructor as soon as possible to initiate the recommended accommodations.

ACADEMIC HONESTY: The University expects all students to engage in all academic pursuits in a manner that is beyond reproach and to maintain complete honesty and integrity in the academic experiences both in and out of their classroom. The University may initiate disciplinary proceeding against a student accused of any form of academic dishonesty, including but not limited to, cheating on an examination or other academic work, plagiarism, collusion, and the abuse of resource materials. "Cheating" includes 1. Copying from another student's test paper, laboratory report, other report, or computer files, data, listings, and/or programs, or allowing another student to copy from same. 2. Using, during a test, materials not authorized by the person giving the test. 3. Collaborating, without authorization, using, buying, selling, stealing, transporting, soliciting, copying, or possessing, in whole or in part, the contents of a non-administered test. 5. Substituting for another student; permitting any other person, or otherwise assisting any other person to substitute for oneself or for another student in the taking of an examination or test or the preparation of academic work to be submitted for academic credit. 6. Bribing another person to obtain a non-administered test or information about a non-administered test. 7. Purchasing, or otherwise acquiring and submitting as one's own work any research paper or other writing assignment prepared by an individual or firm. This section does not apply to the typing of a rough and/or final version of an assignment by a professional typist. 8. "Plagiarism" means the appropriation and the unacknowledged incorporation of another's work or idea in one's own written work offered for credit. 9. "Collusion" means the unauthorized collaboration with another person in preparing written work offered for credit. 10. "Abuse of resource materials" means the mutilation, destruction, concealment, theft or alteration of materials provided to assist students in the mastery of course materials. 11. "Academic work" means the preparation of an essay dissertation, thesis, report, problem, assignment, or other project that the student submits as a course requirement or for a grade. 12. "Falsification of Data" means the representation, claim, or use of research, data, statistics, records, files, results, or information that is falsified, fabricated, fraudulently altered, or otherwise misappropriated or misrepresented. All academic dishonesty cases may be first considered and reviewed by the faculty member. If the faculty member believes that an academic penalty is necessary, he/she may assign a penalty but must notify the student of his/her right to appeal to the department chair, the dean and eventually, to the Provost and Vice President for Academic and Student Affairs before imposition of the penalty. At each step in the process, the student shall be entitled to written notice of the offence and/or of the administrative decision, an opportunity to respond, and an impartial disposition as to the merits of his/her case. The decision of the Provost and Vice President for Academic and Student Affairs shall be final.