

BIOL250 - INTRODUCTION TO BOTANY – Spring 2020

- go to course website for copies, corrections and updates -

INSTRUCTOR INFORMATION

Dr. Leslie Seiger

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Tel (619) 388-2425

Office: MS 315P

Drop In Office Hours for Students in MS 315P

Mon/Wed 1⁰⁰ – 2⁰⁰
Tue/Thu 9³⁰ - 11⁰⁰

additional times available by appointment

Website <http://homework.sdmesa.edu/lseiger/>

COURSE INFORMATION

LECTURE: MW 8:30 AM - 9:20 AM MS322
LAB: MW 9:30 AM - 12:35 PM MS212

Catalog Course Description: This course is an introduction to the fundamental principles of the anatomy, development, physiology, reproductive biology, ecology and evolution of the major plant groups, with emphasis on the flowering plants. The course is targeted towards students with no previous college level biology, but is also appropriate as a lower division course for biology majors. Associate Degree Credit & transfer to CSU. CSU General Education. UC Transfer Course List. Limitation: Credit will only be granted for either 180 or 215 and 250 combined. No credit for 180, 215 or 250 if taken after 210A or 210B.

2.00 Lecture Hours, 6.00 Lab Hours, 4.00 Units
Letter Grade or Pass/No Pass Option

Course Advisory: ENGL 049 and ENGL 048, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels W5/R5.

Course Objectives: Upon successful completion of the course the student will have an understanding of plant anatomy, physiology, reproduction, systematics, evolutionary pathways, and ecology

Student Learning Outcomes:

1. Plant Functional Morphology and Anatomy: Identify and describe or diagram plant cells, tissues and organs and explain their functional and adaptive significance.
2. Plant Metabolism and Physiology: Explain how substances move into and out of cells and throughout the plant body and basic physiological processes including photosynthesis, respiration, transpiration, growth, development, tropisms and the effects of hormones.
3. Plant Reproduction, Genetics, Breeding and Biotechnology: Demonstrate knowledge of plant reproductive biology including Mendelian genetics, molecular genetics, reproductive structures, pollination, dispersal, traditional breeding and biotechnology.
4. Evolution and Biodiversity: Relate evolution and the diversity of plant life to the modern evolutionary synthesis and classify major plant groups with respect to their phylogenetic relationships.
5. Human Impacts Affecting Biological Systems: Think critically about human impacts affecting biological systems.

Course Outline And Scope: Topics to be covered are provided in the attached lecture and lab schedules.

Field Trip Requirements: Field trips are a required component of this course. Most field trips will be conducted during regularly scheduled lab hours, others may be completed by students on their own outside of class time. Transportation to and from the field trip site is the responsibility of the student. Some field trips may require the student to pay a small admission fee. Details, directions and instructions of what to wear and bring will be provided before each field trip. Please see "Accommodation of Disability" and "Classroom Behavior And Student Code Of Conduct."

Accommodation Of Disability: Students with disabilities who may need academic accommodations should notify the professor in writing within the first two weeks of instruction. All information will be kept confidential. Students that need evacuation assistance during campus emergencies should also meet with the instructor as soon as possible to assure the health and safety of all students. If you encounter a problem accessing anything in this course, please contact me as soon as possible.

Required Textbooks & Supplies:

1. You will need a textbook, but you may purchase one of several. Details will be discussed during the first class.
2. Bookstore Packet for BIOL 250 and a 3 ring binder (I have some old ones to give away).
3. Admission fee may be required for some field trips – refer to schedule.
4. 882-ES scantrons (4)

Recommended: Botany for Gardeners / Capon, paperback, any edition. A few colored pencils and a highlighter.

Website: There is a website for this course. Please check it for class updates, handouts and other information.

STUDENT RIGHTS & RESPONSIBILITIES

Please refer to Policy 3100:<http://www.sdmesa.edu/student-services/student-affairs/policies.shtml>

Classroom Behavior And Student Code Of Conduct

1. It is expected that students will conduct themselves within the standards outlined in the student code of conduct, disciplinary procedure and student due process. Disciplinary action will be taken by the instructor as necessary.

Safety:

- ⇒ **Absolutely no food or drinks may be consumed in lab.**
- ⇒ **Closed toes shoes must be worn in order to participate in lab.**

2. On field trips:
 - (1) Obey all posted speed limits and watch for pedestrians.
 - (2) Cell phones may be used for photography and field ID only.
 - (3) Smoking poses a health and fire danger and is absolutely forbidden on site.
 - (4) Do not walk off the trail or collect any specimens of any type unless specifically directed to by the instructor.

Attendance

3. Attendance for the entire class period in activities, class exercises and discussions is expected and will influence your grade.
4. Students will be dropped from the class for missing more than three (3) labs, even if they are excused.
5. It is the student's responsibility to make up missed material. This includes, but is not limited to, obtaining missed lecture notes from another student (not from the instructor), and finding out about any modifications of schedules or assignments announced during class time.

Tardiness

6. Tardiness and early departure are disruptive to the class and your learning experience. Once you arrive, please remain seated until the lecture is over. The instructor will take steps to discourage tardiness or early departure as necessary.
7. The instructor is not required to accommodate students arriving late. If a tardy student comes to class to take an exam or test after another student has already taken the exam or test and left the room, the tardy student cannot take that exam or test. If a student is late for a lab practical, that student will not be allowed into the classroom until the exam is over. Once an exam or test begins there are no bathroom or other breaks.

Withdrawal

8. It is your responsibility to officially drop the class if you stop attending. Not doing so will result in a grade of "F." Please discuss your plans to withdraw from class with me as I may be able to provide options that would allow you to continue the class.

Important Dates

Feb 18	Last day to process and pay for an add code Last day to drop and get a refund Last day to drop with no "W" recorded
Mar 9	Last day to file a petition for Pass/No Pass grade option
Apr 17	Withdrawal deadline – no drops accepted after this date and grades must be assigned for course
May 27	Final exam NO EARLY FINALS WILL BE GIVEN

HOLIDAYS ARE LISTED ON THE CLASS SCHEDULES

Honest Academic Conduct

9. Academic dishonesty will result in a grade of zero for the assignment and will be reported to the School Dean and the Disciplinary Officer, and may result in further disciplinary action.

Academic dishonesty as defined in Policy 3100 includes

- cheating
- unauthorized collaboration, and
- plagiarism

GRADING

Grading Policy

A	90%
B	80%
C	70%
D	60%

Assessments

Lecture Exams (4 @ 100 points)	400	(53%)
Lab Exams (4 @ 50 points)	200	(27%)
Lab Assignments (% completed, 4 dropped)	50	(7%)
Project 1 (10-100% late penalty)	50	(7%)
Project 2 (10-100% late penalty)	50	(7%)
TOTAL	750	(100%)

Individual extra credit is not available.

ASSESSMENTS ARE BASED ON MATERIAL PRESENTED IN CLASS AS WELL AS OUTSIDE ASSIGNMENTS, SUCH AS HOMEWORK.

Lecture exams (400 points)

may include multiple choice, true/false, fill-in-the-blank and short answer. There will be four, noncumulative exams each worth 100 points. Please note the start and end times. Refer to item (7) under "Tardiness." Once an exam begins there are no bathroom or other breaks. Missed exams will receive a grade of zero (see below). No grades are dropped. You will need to bring an 882ES scantron, which can be purchased at the bookstore.

- Missed exams will receive a grade of zero (see below).
- No lecture exam grades are dropped.

Lab exams

will be partly or mostly practical exams as explained in lab, and may include identification, matching, multiple choice, true/false, fill-in-the-blank and short answer. There are four noncumulative lab exams, each worth 50 points. **Please note the start and end times.** Refer to item (7) under "Tardiness."

- Missed exams will receive a grade of zero (see below).
- No lab exam grades are dropped.

Lab assignments/Homework

This portion of your grade will be based on the percent of assignments you complete. There generally will be 1-2 assignments to be completed during lab time and due at the end of each lab. Occasionally an assignment may be assigned as homework.

- Missed assignments will receive a grade of zero.
- Assignments will not be accepted late.
- Assignments can not be made up, but your lowest four (4) lab assignment/homework grades will be dropped.

Independent Projects

Descriptions and requirements are available on the course website.

- Grades for written assignments will be reduced by 10% (one letter grade) if turned in up to one week late and will receive 0 (zero) points if turned in more than one week late.

MISSED LECTURE EXAMS WILL RECEIVE A GRADE OF ZERO.

Because legitimate emergencies sometimes arise, there are a very few circumstances in which a lecture exam may be made up. For that to occur, the student must take full responsibility for meeting all of the following requirements.

- (1) There must be a legitimate emergency or illness.
- (2) You must contact the instructor as soon as you know you will miss the exam and take responsibility to make arrangements for a makeup.
- (3) Your excuse must be valid and your documentation appropriate in the view of the instructor.
- (4) Makeup lecture exams must be made up during the instructor's regularly scheduled office hours or by appointment within 6 calendar days (4 business days) of the actual exam date. Makeup exams may consist of any of the following question formats: oral questions, essay questions, or any format used in regular exams.

**Please advise me if you are a DSPS student
or need other accommodations for test taking.**