BIOL250 - INTRODUCTION TO BOTANY – Fall 2015
- go to course website for copies, corrections and updates -

INSTRUCTOR INFORMATION

Dr. Leslie Seiger
lseiger@sdccd.edu
Tel (619) 388-2425
Office: MS 315P
Mailbox in K-203

Drop In Office Hours in MS 315P
Mon/Wed 9:30 - 11:00
Tue/Thu 1:15 - 2:15

additional office hours by appointment

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

COURSE INFORMATION

LECTURE: TTh 9:00 AM - 9:50 AM MS203
LAB: TTh 10:00 AM - 1:10 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. Field trips will be conducted during regularly scheduled lab hours. Transportation to and from the field trip site is the responsibility of the student. Some field trips will 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:
2. Bookstore Packet for BIOL 250
3. Admission fee will be required for some field trips – refer to schedule.
4. Closed toes shoes must be worn in order to participate in lab
5. 882-ES scantrons (4)

Recommended: Botany for Gardeners by Brian Capon, paperback, any edition.

Website: There is a website for this course. Please check it for class updates, handouts and other information. You can access it from my home page [http://homework.sdmesa.edu/lseiger](http://homework.sdmesa.edu/lseiger)

STUDENT RIGHTS & RESPONSIBILITIES

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. Please refer to Policy 3100: [http://www.sdmesa.edu/about-mesa/facultystaff/policies/](http://www.sdmesa.edu/about-mesa/facultystaff/policies/)

<table>
<thead>
<tr>
<th>Safety:</th>
</tr>
</thead>
<tbody>
<tr>
<td>⇒ Absolutely no food or drinks may be consumed in lab.</td>
</tr>
<tr>
<td>⇒ Closed toes shoes must be worn in order to participate in lab.</td>
</tr>
</tbody>
</table>

2. Students are expected to come to class in a timely manner, prepared for the day’s work. Full participation for the entire class period in activities, class exercises and discussions is required.

3. Incidents involving removal of a student from class will be reported to the college disciplinary officer for follow up. Acceptance of make-up work during the removal is at the discretion of the instructor. If you are removed from the lab for violating the safety policy above, no make-up work will be allowed or accepted.

4. Please turn off all cell phones, pagers etc. You will be released from class with an unexcused absence for making or accepting telephone calls or text messages in the classroom or on a field trip.

5. On field trips:
   (1) Obey all posted speed limits and watch for pedestrians.
   (2) Cell phones are to be off (see above).
   (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
6. Attendance is required and will impact your grade (see section on assessments). Students will be dropped from the class after four (4) lab absences – whether or not they are excused. Student’s may NOT make up missed labs. See “Grading” below.

7. 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
8. Tardiness and early departure are disruptive to the class and will be discouraged. Once you arrive, please remain seated until the lecture is over. The instructor will take steps to discourage tardiness or early departure as necessary.

9. The instructor is not required to accommodate students arriving late. If a tardy student comes to class to take an exam after another student has already taken the exam and left the room, the tardy student cannot take that exam. **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 begins there are no bathroom or other breaks.

Withdrawal
10. It is your responsibility to officially drop the class if you stop attending. You must drop using Reg-e or other approved procedures. Not doing so will result in a grade of “F.” It is the instructor’s discretion to withdraw a student after the add/drop deadline (include date) due to excessive absences. **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.**

<table>
<thead>
<tr>
<th>Important Dates</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sep 4</td>
<td>Last day to process and pay for an add code</td>
</tr>
<tr>
<td>Sep 4</td>
<td>Last day to drop and get a refund</td>
</tr>
<tr>
<td>Sep 4</td>
<td>Last day to drop with no &quot;W&quot; recorded</td>
</tr>
<tr>
<td>Sep 25</td>
<td>Last day to file a petition for Pass/No Pass grade option</td>
</tr>
<tr>
<td>Oct 30</td>
<td>Withdrawal deadline – no drops accepted after this date</td>
</tr>
<tr>
<td>Nov 23-27</td>
<td>Fall Break (classes not in session)</td>
</tr>
<tr>
<td>Dec 17</td>
<td>Final exam</td>
</tr>
</tbody>
</table>

**You must file for withdrawal to avoid a grade of "F"**

Honest Academic Conduct
11. 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 includes, but is not limited to, cheating, which includes unauthorized collaboration and plagiarism as defined in Policy 3100. Please refer to Policy 3100: [http://www.sdmesa.edu/about-mesa/facultystaff/policies/](http://www.sdmesa.edu/about-mesa/facultystaff/policies/)

**Grading**

<table>
<thead>
<tr>
<th>Grading Policy</th>
<th>Assessments</th>
<th>Grade Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 90%</td>
<td>Lecture Exams (4 @ 100 points)</td>
<td>400 (50%)</td>
</tr>
<tr>
<td>B 80%</td>
<td>Lab Exams (4 @ 50 points)</td>
<td>200 (25%)</td>
</tr>
<tr>
<td>C 70%</td>
<td>Lab Assignments (% completed, 4 dropped)</td>
<td>80 (10%)</td>
</tr>
<tr>
<td>D 60%</td>
<td>Homework (% completed, 2 dropped)</td>
<td>30 (4%)</td>
</tr>
<tr>
<td></td>
<td>Project 1 (10-100% late penalty)</td>
<td>40 (5%)</td>
</tr>
<tr>
<td></td>
<td>Project 2 (10-100% late penalty)</td>
<td>50 (6%)</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td>800 (100%)</td>
</tr>
</tbody>
</table>

**Individual extra credit is not available.**
ASSESSMENTS are based on material presented in class as well as outside assignments.

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

Nonnative speakers of English may use a translation dictionary for exams by prior arrangement.

Lecture exams
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 (8) 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.

Lab exams
will be partly or mostly practical exams as explained in lab, but may include 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 (8) under “Tardiness.” Once exam begins there are no bathroom or other breaks. Missed exams will receive a grade of zero (see below).

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 4 lab assignment and 2 homework grades will be dropped.

Independent Projects
Descriptions and requirements are available on the class 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.

**MISSUED LECTURE EXAMS AND LAB EXAMS WILL RECEIVE A GRADE OF ZERO.**

- Exams given during finals week cannot be made up.
- No early finals.
- For exams 1-3, there is a very strict and limited make-up policy described below.

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. No exceptions will be made.

1. There must be a legitimate emergency or illness.
2. You must contact the instructor before the exam to make arrangements for a makeup.
3. You must provide appropriate written documentation of your reason for requiring a make-up. These documents must be presented before the make-up exam is taken and will be filed with your class records.
4. Your excuse must be valid and your documentation appropriate in the view of the instructor.
5. Makeup lecture exams must be made up during the instructor’s regularly scheduled office hours within 6 calendar days (4 business days) of the scheduled exam date. Makeup exams may consist of any of the following question formats: oral questions, essay questions, or any format used in regular exams.