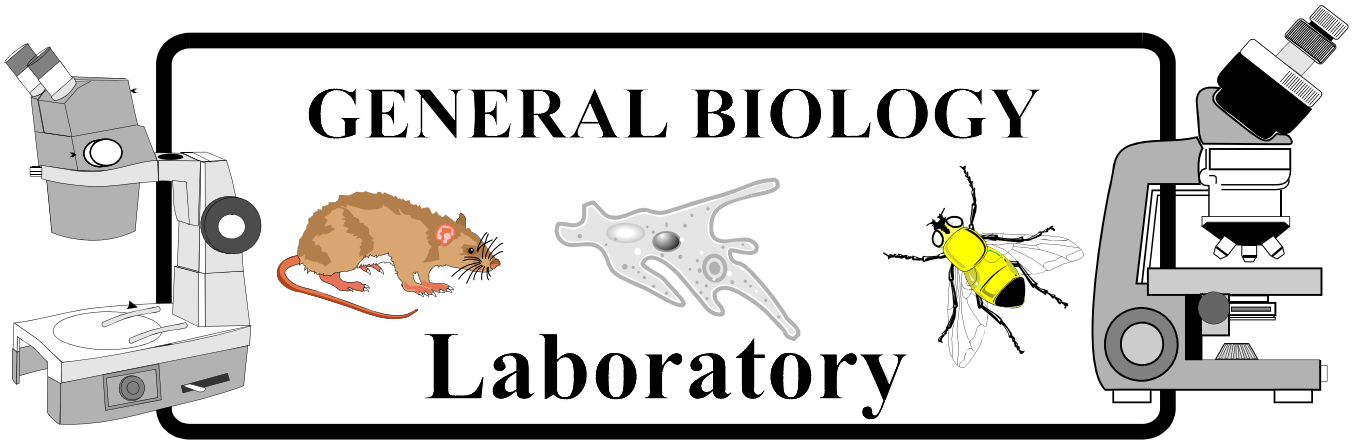


Mr. Ancinec
E-mail: dancinec@sdccd.edu
Supplies: Biology 107 Lab Packet and kit

Description: *A three-hour natural science laboratory portion of Biology 107. The laboratory introduces the use of the microscope, experimental design, collection and analysis of data, and techniques of dissection. Laboratory sessions explore intracellular transport, photosynthesis, growth and development, basic anatomy of plants and animals, life cycles, mitosis, meiosis, genetics, natura*l selection and ecology.

Procedures
1. You are expected to provide yourself with a laboratory manual. This is to be a new, *unwritten upon* manual. The exercises arc not to be photocopied or digitized in any way for turn in. The manual is a workbook into which you record your data, create graphs, make observations and answer questions. Failure to provide yourself with a manual will result in *no credit* for your enrollment. You may be asked to show your accumulated work at any time during the semester. Failure to have completed the exercises assigned to that point in time will result in no credit for those labs.

2. A quiz worth 100 points is given at the beginning of the laboratory period. There are no makeup for these quizzes. If you come to class late after the last person has turned in their paper, you will not be able to take the quiz. You must be there on time to take the quiz.

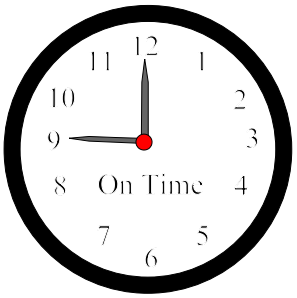
3. An introduction to the laboratory is given, discussing the nature of the experiments, the setup of the exercise and the student `trouping to complete the exercise. You may be asked a question about the current laboratory on the quiz. **THE CURRENT EXERCISE SHOULD HAVE BEEN READ BEFORE COMING TO CLASS.**

4. After the introduction is made, a short ten minute break would be appropriate, unless the experiment needs to be set up right away. Ten minutes per lab hour is allowed as a break during the class time (total of 20 minutes). Make certain that the experiment is covered by someone within your group before taking a break.

5. Approximately forty-five minutes before the end of the period, the laboratory work will be discussed and summarized.

6. Clean up of the laboratory is everyone's job. The ultimate responsibility will be rotated between each row on a weekly basis. The laboratory will be left in as good a condition or better than found.

Participation



1. You may miss two laboratories without being dropped. Note that the laboratory is part of the total course credit, you cannot take the lecture without the laboratory or vice versa. *You can make up missed labs only during the same week, either during another instructor's lab or my own (consult the schedule for times). *Not in effect for Summer Session. A make up laboratory is on a space available basis only, an instructor is under no obligation to allow you to make up a laboratory.

2. Leaving the laboratory early before your work is completed (this includes the cleanup), or not participating in your group counts toward your accumulated absences. Remember that it is not only the material that is important, but also the skills and techniques learned during a laboratory.

3. A field trip is considered to an off campus convening of a regular class. Your participation is required. The responsibility for transportation to the field trip site is yours.

Grades

1. The primary source of grades is the weekly quizzes. These quizzes are based upon the material contained in the previous week's laboratory and the review conducted at the end of the laboratory. These quizzes are recorded and adjusted against the top accumulated score. *No quiz grades are discarded.* Some of the laboratory exercises are required to be turned in. These **exercises** are graded on the basis of fifty (50) points. **Original** work on your laboratory exercise is expected. Identically answered exercises are both worth "0" points. Even if you worked with a laboratory partner, you are expected to answer the questions in your own words. Do not get caught copying another's lab exercise answers (unless it is data). Not more than 30 percent of your answers should be the same. Exercises which are turned in one laboratory period after the due date are worth one half (25 points) and are not accepted the Friday after that late period. Participation counts for five (5) percent of your total laboratory grade. The absences and "lates" are recorded. If you miss no labs, you will earn the all total points possible. If you miss one lab, then you would earn one half the number of points (3/6), if you miss two (2) labs, you would earn no participation credit. If you miss more than two (2) labs or accumulate more than six (6) hours absence, then the points are subtracted from your total. Being late counts toward an absence at the rate of three (3) lates equal one three (3) hour absence. The laboratory accounts for 25% of your total course grade.

2. The grading scale is as follows:

A=89.0 -100.0%
B=78.0 - 88.9'%
C=63.0% - 77.9%
D=50.0`% - 62.9%
F = 49.9 % and below

3. You may do some extra credit exercises. These exercises would include those exercises which your laboratory class did not do because of the holiday schedule, or an extra credit exercise provided by the instructor. The latest an exercise would be accepted would be the week before the last week of classes. ***Extra credit exercises are due before the last week of scheduled classes and they are due at the beginning of that lab period. No extra credits are accepted the last week of classes..***

4. I will post your scores in the lecture room and on the Internet with your adjusted course grade several times during the semester. You should check to see if the scores are recorded correctly. You will need the *scored rest or exercise* to verify your score. I would strongly suggest that you keep all exercises and tests until the end of the semester. Use the back of this sheet to record your points and to accumulate your own totals.

Safety

1. You are required to have a covered foot during the laboratory. If you come to the laboratory without shoes or sandals, then you will not be allowed to participate. The laboratory will be counted as an absence.

2. While mixing or heating hazardous chemicals or working with an open flame, safety glasses must be worn (safety glasses will be provided).

3. Report any accidents, cuts, falls etc.. to the instructor immediately (or if the instructor is not available, to the laboratory technician).

4. Learn the location of the emergency eye wash, shower, fire blanket, fire extinguisher and the first aid kit in the laboratory.

Cheating/Plagiarism

Students are expected to be honest and ethical at all times in their pursuit of academic goals. Students who are found in violation of district Procedure 3100.3, Honest Academic Conduct, will receive a “F” grade on the assignment in question and may be referred for disciplinary action in accordance with Procedure 3100.2, Student Disciplinary Procedures.

Disabilities

Students with disabilities who may need academic accommodations should discuss options available to them with the instructor during the first two weeks of class.

Record your scores in the table below. Use it to track your laboratory grade.

Quizzes and Exercises	Scores
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	
13.	
14.	
15.	
16.	

SAN DIEGO MESA COLLEGE
BIOLOGY 107 Laboratory Schedule – Spring 2010

TEXTS & SUPPLIES NEEDED:
MANUAL: Mesa College Staff, Laboratory Experiments in General Biology, 11th Edition
LAB KIT: purchase at bookstore. **Please bring your lab kit to all labs.**
GLOVES: available at bookstore or pharmacy. Please bring gloves for dissections.

Week	MON	TUE	WED	THU	FRI	TOPICS
1	Jan 25	Jan 26	Jan 27	Jan 28	Jan 29	**LAB SAFETY, ORIENTATION, SCIENTIFIC METHOD** MANUAL Exercises 1 & 2, Appendix A & B
2	Feb 1	Feb 2	Feb 3	Feb 4	Feb 5	**MICROSCOPES AND CELLS** MANUAL Exercise 3
3	Feb 8	Feb 9	Feb 10	Feb 11	Feb 12 **Holiday**	**DIFFUSION AND OSMOSIS** MANUAL Exercise 4
4	Feb 15 **Holiday**	Feb 16	Feb 17	Feb 18	Feb 19	**FIELD TRIP***
5	Feb 22	Feb 23	Feb 24	Feb 25	Feb 26	**ENZYMES** MANUAL Exercise 5
6	Mar 1	Mar 2	Mar 3	Mar 4	Mar 5	**CELLULAR RESPIRATION:(1) RESPIRATION RATE AS A FUNCTION OF BODY SIZE (METABOLIC RATE), (2) GLYCOLYSIS & FERMENTATION** MANUAL Exercises 6 & 7
7	Mar 8	Mar 9	Mar 10	Mar 11	Mar 12	**PHOTOSYNTHESIS** MANUAL Exercise 8
8	Mar15	Mar 16	Mar 17	Mar18	Mar19	**MEIOSIS & MENDELIAN GENETICS** MANUAL Exercise 9
9	Mar 22	Mar23	Mar24	Mar 25	Mar 26	**MOLECULAR GENETICS (DNA)** MANUAL Exercise 11 and 12
10	Apr 5	Apr 6	Apr 7	Apr 8	Apr 9	**ANIMAL KINGDOM – SIMPLE ANIMALS** MANUAL Exercise 13, Appendix C & D
11	Apr 12	Apr 13	Apr 14	Apr 15	Apr 16	**ANATOMY: DISSECTION OF THE WHITE RAT** MANUAL Exercise 15
12	Apr 19	Apr 20	Apr 21	Apr 22	Apr 23	**THE CIRCULATORY SYSTEM** MANUAL Exercise 16
13	Apr 26	Apr 27	Apr 28	Apr 29	Apr 30	**FIELD TRIP***
14	May 3	May 4	May 5	May 6	May 7	**PLANT EVOLUTION** MANUAL Exercise 14, Appendix C & D MANUAL Exercise 16
15	May 10	May 11	May 12	May 13	May 14	**ECOLOGY** MANUAL Exercise 17
16	May 17	May 18	May 19	May 20	May 21	**INSTRUCTOR CHOICE/ Ecology Film and Exercise** **(setup and materials to be provided by instructor)**

***Night Labs: Instructor Choice** (setup and materials to be provided by instructor)