

Spring, 2013

**BIOLOGY 206L: CELLULAR & ORGANISMIC BIOLOGY
LABORATORY II**

Thursdays 2:30 pm - 5:20 pm
Henry Hall L3

Professor: Dr. Richard Alvey

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Office Number: 808-739-8373 (Shared office number, do not leave messages)

Office: Henry Hall, Room 123C

Office Hours: Monday, Wednesday, Friday 2:00pm to 4:00pm or by appointment

Please use your “chaminade.edu” account for all email communications to me.

Texts:

1. *Biology 206 Lab Manual* Spring 2013, Perry, Alvey, Trapido-Rosenthal and Wright.
2. *Pearsons Laboratory Manual for BI 206 Labs - Symbiosis*. 2011. The Pearson Custom Library for the Biological Sciences, Pearson Learning Solutions, Boston, MA.

Course Description:

BI 206L is a 1 semester credit introductory biological science laboratory for those students enrolled in BI 206 - Cellular and Organismic Biology II. This laboratory course is for students desiring advanced studies in the sciences, e.g., biology, forensic science, medicine, dentistry, environmental health, and other areas.

Goals of the Course: This course is designed to fulfill the following goals:

1. To present principal methods and techniques coupled with appropriate instruments utilized in the study of cells and organisms;
2. To allow investigation and problem solving by manipulative and experimental methodology including preparation of written laboratory reports;
3. To examine applications of principles and concepts in lecture, such as the relationship between organisms;
4. To work collaboratively in order to accomplish a common goal, i.e., lab experiments; and
5. To learn structure and function of cells, tissues, and organs by microscopic viewing, preserved specimens, and dissection.

Objectives for Students: At the completion of the course, the student will be able to do the following:

1. apply the Scientific Method to observable phenomenon;
2. identify and use specific biological equipment;
3. identify biological specimens;
4. identify cellular and tissue types and structures;
5. identify and use different techniques;
6. compose scientific laboratory reports;
7. understand and set-up an experimental procedure;
8. develop an appreciation for working collaboratively in groups;

Laboratory preparation, outline, and attendance:

1. Preparation of laboratory assignments listed on the lab outline and presented in lab handouts are essential in successful completion of the laboratory and safety of your fellow students.
2. Handouts in the laboratory outline refer to assignments not in the lab manual. Lab handouts will be given to students prior to the laboratory exercise and include procedures and instructions for the laboratory.
3. Attendance for the laboratory is mandatory. Laboratory absences must be documented by valid excuses, such as a physician's excuse. Grade penalties will be imposed for unexcused absences by the instructor.

Laboratory notebook:

1. All students will be required to maintain a laboratory notebook into which **ALL** laboratory information and data is to be entered. Lab notebooks will be checked from time to time and graded.
2. The notebooks must be bound with non-tear out pages. Spiral notebooks are unacceptable, as are three-hole folder paper.
3. The format and grading of lab notebooks are given on a separate handout. Please follow the format including a table of contents with dates, exercise title, and page numbers.
4. Notebooks will be randomly checked at 5 intervals during the semester. Each check will result in a score (maximum 10 points). Maximum total points per the semester lab notebook checks is 50.
5. **As a new procedure, all lab books will remain in the lab for the semester and will only be allowed to be taken home during the week proceeding an exam or spring break in order to write up lab report(s).**

Laboratory Reports:

1. The format and grading of laboratory reports are included in a separate handout.

2. The policy for late lab reports include: A lowering of the grade by one letter grade for every day late. Papers beyond two days late will not be accepted by the instructor barring exceptional circumstances.

Grade Determination:

1. Separate grades will be given for lecture and laboratory. It is possible to receive different grades for lecture and laboratory.
2. The instructor does not curve grades or grade scores. Grades will be determined according to the scale used in lecture.
3. There will be two lab practical examinations; the second exam will include material covered since the midterm exam, it is not cumulative.
4. There may be either announced or unannounced quizzes. Makeup quizzes will **not** be given. Quizzes will not be used to replace low exam grades.
5. Incomplete grades, early exams, and late exams are not given.
6. The laboratory grade will be determined in the following manner:

| | |
|---------------------|------------------|
| 1st lab exam | 100 points |
| Final lab exam | 100 points |
| Lab reports | 50 points |
| Lab notebook checks | <u>50 points</u> |

Total **300 points**

Class standing, office hours, and extra help:

1. Students may obtain their grades at any time by consulting with the instructor. Students with D or F grades will receive deficiency notices. It is mandatory that students receiving deficiency notices make an appointment to see the instructor.
2. Office hours are listed on the instructor's office door, Henry Hall, Room 123C. The instructor is also available by appointment.
3. Tutoring services are available through the Chaminade University Learning Center. The Biology Department provides upper class students majoring in biology as tutors. Please contact the instructor regarding availability of tutoring services.

ADA Accommodations:

Students with special needs who meet criteria for the Americans with Disabilities Act (ADA) provisions must provide written documentation of the need for accommodations from the CUH Counseling Center (Dr. June Yasuhara; phone 735- 4845) by the end of week three of the class, in order for the instructor to plan accordingly. Failure to provide written documentation will prevent your instructor from making the necessary accommodations. Please refer any questions to the Dean of Students and review the procedures at http://www.chaminade.edu/student_life/sss/counseling_services.php.