

CONCEPTS OF BIOLOGY – LAB

BIOL 1108

SPRING 2014 Fri 9:30am – 12:20pm

COURSE SYLLABUS

Instructor: Prof. Mark A. Storey

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Office Hours:

Course Overview and Description:

This is a required lab for Biology 1408, a 4 hours course which satisfies the college requirements for a laboratory science. In this lab, we will emphasize the same things that we do in lecture, with emphasis on the study of life, molecules of cells, cell structure, cell division, cell reactions, respiration, photosynthesis, DNA, genetics, evolution, and the environment. **This course is designed for non-science majors.**

Course Objectives:

It will be the same as the syllabus listings you got in lecture. All biology teachers use the same guidelines for what is taught and required.

Student Learning Outcomes:

It will be the same as the syllabus listings you got in lecture. Please view them online in the college catalog for Concepts of Biology or refer to handouts the teacher gives you. **Keep all paperwork!**

Grading Rubrics:

A = 90-100

B = 80-89

C = 70-79

D = 60-69

F = below 60

Required Reading:

Inquiry Into Life, 14th Edition Laboratory Manual by Dr. Sylvia Mader

Laboratory Requirements:

Lab requirements will parallel lecture requirements. There will be one (1) lab test per week over each of the lab reports you are required to complete. Also required will be completion of each lab report (Review at the end of each exercise), which will be turned in at the time you take the weekly test. Tests will mainly be objective, short answer, labeling drawings, fill in the blank, list, matching, etc. All tests are based on a 100 point scale. All tests must be taken! If one is missed a zero will be recorded. **THERE WILL BE NO RETAKES ON TESTS. Lecture counts 70% and lab 30% for the course grade.** Free tutoring is available to any student at the library for lecture and lab.

Special Requirements:

TC provides email accounts for all students via the *myTC* web portal. Always put a topic in your email, including name and lab time. All correspondence concerning this course will be conducted using your student TC e-mail account.

Grades:

To figure the lab grade, count lab tests as 70%, lab reports 10% and lab participation 10%. Lab participation includes working well with lab partners, cleaning up and putting away lab equipment, attendance and being on time. The lab grade will be given to the lecture teacher at the end of the semester. There will be no lab final exam except for a short post-assessment test.

Lab Outline:

Lab Units 1-8, 20-23, 30. These topics will parallel what is covered in lecture, so for detailed outline, see the lecture syllabus. The professors in this department work together, doing the same labs together each week.

Cheating Policies:

Scholastic dishonesty, involving but not limited to cheating on a test, plagiarism, collusion, or falsification of records will make the student liable for disciplinary action. Proven violations of this nature will not be tolerated and result in the student being dropped from lecture and lab with an "F". This policy also applies at the TC Testing Center. The student will be required to speak with the Dean of Students before being dropped from the class

Absentee Policy:

Lab and lecture absences are added together! Only 4 absences per semester are allowed before the student must drop (W) the class. An absence from lab counts 1/2 an absence. Three tardies constitute an absence. Absences are not recommended as points will be deducted from participation grades, which is 10% of the overall lab grade. There are no excused and unexcused absences. An absence is an absence. It is YOUR responsibility to keep up with the number of absences you have.

Policies for Dismissal from Lab:

Before you are dismissed from lab, you will be given a warning unless it is a violent, unlawful or otherwise flagrant act. The teacher will determine the severity. In this instance, the student will be asked to leave immediately. Professor McCright will talk to the student after class and determine the course of action. The student will be required to speak with the Dean of Students. If the student does not comply, Security will be asked to escort the student out of class. The student will not be permitted in lab again and risks being dropped from all classes at TC. If the student merits a warning, at that time a written record will be made of the warning. This will be recorded in the grade book. If a 2nd problem should arise, the person will be expelled from class. General reasons why a person may be dropped from lab are: disrupting class, using tobacco products, cursing, disrespectful attitude, cheating, excessive absences and tardiness, working on another class during designated biology time, destroying lab equipment or anything else in the student handbook or general catalog that may be a violation of campus policy.

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Lab Unit

1&2-SCIENTIFIC METHOD, METRICS, MICROSCOPY
3-CHEMICAL COMP OF CELLS
4-CELL STRUCTURE, FUNCTION
5-MITOSIS, MEIOSIS
6-ENZYMES
7-CELL RESPIRATION
8-PHOTOSYNTHESIS
20-INHERITANCE PATTERNS
21-HUMAN GENETICS
22-DNA BIOLOGY, TECHNOLOGY
23-EVOLUTION
30-SAMPLING ECOSYSTEMS