

Biology 1020 World of Biology Laboratory (Fall 2011)

I. General Information

Instructor: Veronica Menendez
Office: N-254
Office Hours: Monday 11-1
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Required Text: *World of Biology 1020 Laboratory Workbook*, 4th Edition

II. Course Description and GE Goals

World of Biology is designed to provide students with laboratory and field experience in various biological areas. We will explore many of the topics that are covered in Biology 1010, but in 1020 we have the luxury of actually doing some of the experiments discussed in lecture. Many students find the interactive, hands-on component of 1020 to be exciting, and enjoy working collaboratively on projects with other students and the instructor.

1. Provide an overview of basic knowledge, principles, methodologies, theories, and perspectives in biology.
2. Offer opportunities to work in groups with other students to practice effective communication about concepts and issues in biology.
3. Provide a broad understanding and appreciation of biology and encourage continuous inquiry and lifelong learning.
4. Provide the framework to critically evaluate and use information from various scientific sources to answer questions relevant to biology.
5. Understand the relationships between the fields of biology, chemistry, physics, geology and other sciences.
6. Appreciate the interdependence of humans, natural ecosystems, and the diversity of life on earth.
7. Develop more informed and responsible citizens with respect to issues concerning the living world.

III. Grading

Grades will be based on laboratory write-ups, quizzes, and microscope care. The final will be optional and comprehensive and stress concepts addressed in each lab. We will be using microscopes for four laboratories. During these labs, up to 5 points per lab may be deducted if microscopes and slides are not handled or stored properly.

Laboratory write-ups (11 @ 10 pts. per lab.)	110
Quizzes (10 @ 10 points per quiz, lowest will be dropped)	90

Total **200**

Grade Calculations

Grades will be based on the percentage of points earned:

A (90-100%), B (80-89%), C (70-79%), D (60-69%), F (<60%)

If you take the credit/no credit option: CR (70-100%), NC (0-69%)

February 23rd is the last day you may change your grading option to credit/no credit. To do so you must have your instructor sign a yellow add/drop form. It is your responsibility

to turn this form in to Admissions and Records. Consult with your advisor before making your decision. Grades will not be changed once they have been submitted. The last day to drop the course entirely is also February 23rd. Please note that Biology 1020 and Biology 1010 are graded separately.

IV. Laboratory Policies

World of Biology is a laboratory course and as such requires your presence. Your grade is based on laboratory write-ups, quizzes, and microscope care. You can only get points for lab write-ups and quizzes if you attend lab. Because the laboratory setups change from class to class, it is not possible to makeup missed laboratories. Unexcused absences will result in no points for lab write-ups and also in no points for the quiz given that day. You can drop your lowest quiz, but there is no way to make up for missed labs.

At the beginning of each class students should turn in their write-up from the previous week's lab. For example, turn in your Scientific Method lab write-up at the beginning of the lab on Cells and Microscopes. For most of the laboratories, you will work in groups of two or four students. However, each student should turn in his/her own write-up for each laboratory. Do not simply write the same answers as your lab partner. Instead, synthesize results and put your answers in your own words. Write-ups will be graded based on completeness, accuracy, and legibility.

Quizzes will begin promptly at the beginning of lab. If you are late you will have less time to complete your quiz. If you arrive after a quiz has been collected you will not be able to take that quiz.

I have a no-tolerance policy for cheating. Students cheating on quizzes or exams, representing the work of others as their own, or turning in lab assignments for labs not attended will certainly receive a zero for that assignment and may receive an F in the class.

V. Laboratory Schedule

Tuesday		Wednesday	
23-Aug	Attendance, Safety	24-Aug	Attendance, Safety
30-Aug	Nature of Science	31-Aug	Nature of Science
6-Sep	Cells, Microscopes	7-Sep	Cells, Microscopes
13-Sep	Transport	14-Sep	Transport
20-Sep	Metabolism	21-Sep	Metabolism
27-Sep	Mitosis	28-Sep	Mitosis
4-Oct	Genetics	5-Oct	Genetics
11-Oct	Columbus Day, No Labs	12-Oct	No Labs
18-Oct	Evolution*	19-Oct	Evolution*
25-Oct	Plant Biology	26-Oct	Plant Biology
1-Nov	Animal Adaptations	2-Nov	Animal Adaptations
8-Nov	Populations	9-Nov	Populations
15-Nov	Ecology	16-Nov	Ecology

22-Nov	No Labs	23-Nov	No Labs
29-Nov	Exam	30-Nov	Exam

*The Evolution Lab will be done outside. Please come prepared for the weather. Bring a calculator.