

COURSE POLICY: BIOL 122 – General Biology II



Credit Hours: 4

LECTURE: TR 12:30 – 1:45, JUL 8

LAB: W 2:00 – 4:50, MAC 1

INSTRUCTOR: Dr. Christy Wolovich

OFFICE: Julian 211 **PHONE:** x7112 **E-mail:** christy.wolovich@mac.edu

OFFICE HOURS: Thursdays 2 – 3 pm; Fridays 10 – 11 am; or by appointment

COURSE DESCRIPTION: This course is the second semester of general biology and will give students an overview of basic evolutionary principles and the diversity of life. Students will be responsible for attending lectures and laboratories and reading the text, but will also actively design and carry out experiments using the scientific method.

COURSE OBJECTIVES: Upon completion of this course, students will:

1. understand how basic evolutionary principles apply to all species
2. think critically about what they read in the popular media regarding science
3. be able to use the scientific method to design and implement experiments
4. understand the similarities and differences among various groups of organisms

REQUIRED TEXT:

Solomon, EP, Berg LR & Martin DW. 2008. *Biology* 8th Ed. Brooks/Cole Cengage Learning.
Pendarvis, MP & Crawley, JL. 2011. *Exploring Biology in the Laboratory*. Morton Publishing Company.

LECTURES: Students are expected to attend all lectures and to participate in classroom discussion. For further information, see the statement on Class Attendance in the student handbook, *The Maggie*, on the MacMurray website, http://www.mac.edu/student_affairs/pdf/maggie.pdf. Lectures will consist of a presentation of fundamental biological concepts. Students will be responsible for actively engaging in small group discussions, asking relevant questions and offering insightful comments. Students are expected to complete the assigned readings **PRIOR** to lecture. See the course schedule for the list of chapter readings.

LABORATORIES: It is critical that students attend their scheduled laboratory sessions each week. During lab, students are expected to complete all activities and the accompanying worksheets. Laboratory exercises will consist of a variety of activities ranging from microscopy, identification of key characteristics of taxonomic groups, and student-designed experiments in the laboratory. It will not be possible to make-up missed laboratory activities unless previous arrangements are made with the instructor regarding valid excused absences (athletic events, hospitalization, etc.).

EVALUATION: Students will be evaluated based on the following:

Quizzes	10%
Exams (4 @ 10%)	40%
Final Exam	20%
Participation	5%
Laboratory Assignments	15%
Laboratory Practical	10%
TOTAL	100%

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

QUIZZES (10% of final grade): There will be a series of 4 scheduled quizzes at the start of the lecture periods. Quizzes will consist of fill in the blank, multiple choice, true and false, and short-answer style questions. **No make-up quizzes will be administered.** The lowest quiz score will be dropped in determining the student's final grade. Material covered during lecture and in the textbook will be included on quizzes.

EXAMS (60% of final grade): There will be four exams throughout the semester and one final exam at the end of the semester. Each exam will consist of material that had been previously covered in readings and in lecture. Exams will contain a mixture of fill in the blank, multiple choice, and short-answer style questions. The final exam will be cumulative and will require students to have mastered all previously covered from reading, lecture, and laboratory materials.

PARTICIPATION (5% of final grade): Students will not be evaluated on the actual content of their statements, but will be evaluated on their professionalism in class (cell phone use, tardiness, and any other disruptive behavior will count against participation points). Poor attendance or tardiness will result in a drastic reduction of the student's participation grade.

LABORATORY EXERCISES (15% of final grade): Students will be evaluated on their participation in laboratory activities, and on their successful completion of all laboratory worksheets. Students are expected to read all materials for the laboratory **PRIOR to** the start of the lab. Laboratory worksheets will be graded for completion and accuracy. Depending on the exercise, the instructor will collect all worksheets either at the end of the laboratory period or during the following week's laboratory.

LABORATORY PRACTICAL (10% of final grade): There will be two laboratory practicals covering previous material examined in the lab.

COURSE POLICIES: All cell phones must be turned off prior to the beginning of class and lab. No other portable electronic devices (e.g. ipods) are to be used during class or lab. The instructor may confiscate any such devices until the end of the class.

Students are encouraged to ask questions, make relevant comments and participate in all classroom activities. Students will be **required to use Moodle** to obtain additional course readings and to participate in electronic discussions of current issues in biology. During all lectures, discussions and on Moodle, please be respectful of other students and the instructor.

Tardiness will not be tolerated. The instructor reserves the right to not permit students into class after the scheduled start time.

CHANGES TO THE SCHEDULE: It may become necessary to alter the course schedule. If the instructor decides to make any changes, she will notify all students in class and the new schedule will be posted on Moodle.

Disability Services: Students who need note takers, interpreters, un-timed tests, or other services for students with learning disabilities should contact Pamela Harrison, Coordinator of Disability Support Services, at 217-479-7176, e-mail Pamela.harrison@mac.edu.

The Center for Learning Excellence (CLE):

The Center for Learning Excellence, located in the Education Complex, 2nd floor RM 208 offers *free* tutoring in a variety of subjects, including writing and math. It is a great place to go to study because help is available right when you need it! Students doing group work find plenty of room to work together with access to computers and printing. If you are interested in joining a study group, contact the staff in the Center for assistance. You may also find many resources available via the MacMurray website at:

<http://www.mac.edu/resources/cle/index.asp> For more information, contact **Director, Jenny Briney at 479-7178** or **Assistant Director, Dan Callihan at 479-7131**.

Monday	Tuesday	Wednesday	Thursday	Friday
12:00pm-8:30pm	7:30am-8:30pm	7:30am-8:30pm	7:30am-8:30pm	7:30am-4:30pm

Plagiarism

Plagiarizing, including the submission of another person's ideas and papers, even unintentionally (whether purchased, borrowed, or otherwise obtained) as one's own is a serious act of Academic Dishonesty. Should a student plagiarize, the instructor shall assign a grade of "F" for the work or the course at his or her discretion. A written report of academic dishonesty including the circumstances and penalty assigned shall be given by the instructor to the Academic Standards Committee. If the case warrants, the Committee may then write a letter to the student, which would be made a permanent part of the student's record. In cases considered by the Committee to be particularly egregious, such as multiple offenses, the Academic Standards Committee may suspend or dismiss the student from the College (from The Maggie). If you are unsure about what constitutes plagiarism, please see the staff of the Center for Learning Excellence for assistance.

BIOL 122 – General Biology II Course Schedule

Week	Dates	Topic	Quiz/Exam	Textbook Reading	Laboratory Assignments
1	Jan 12	Introduction to Course			NONE
2	Jan 17 Jan 19	Darwinian Evolution Micro & Macroevolution		Ch 18 Ch 19, 20	Natural Selection in Action
3	Jan 24 Jan 26	Systematics History of Life on Earth	Quiz 1	Ch 23 Ch 21	Ch 18: Reconstruction of Phylogeny
4	Jan 31 Feb 2	Protists Cont./Review for Exam		Ch 25	Ch 21: Protists, designing experiments
5	Feb 7 Feb 9	EXAM 1 Seedless Plants	EXAM 1	Ch 27	Protist experiment continued
6	Feb 14 Feb 16	Seed Plants & Plant Reproduction Plant Structure		Ch 28, 36 Ch 32, 33	Ch 22, 23: Seedless Plants
7	Feb 21 Feb 23	Plant Structure & Function Plant Transport	Quiz 2	Ch 34, 35	Ch 24, 25: Seed Plants
8	Feb 28 Mar 1	Cont./Review for Exam EXAM 2	EXAM 2		Lab Practical I
9	Mar 6 Mar 8	Spring Break – NO CLASS Spring Break – NO CLASS			NONE
10	Mar 13 Mar 15	Fungi Porifera & Cnidaria		Ch 26 Ch 29	Ch 28 - Fungi
11	Mar 20 Mar 22	Protostomes Deuterostomes	Quiz 3	Ch 30 Ch 31	Ch 29, 30 Animal Diversity
12	Mar 27 Mar 29	Cont./Review for Exam EXAM 3	EXAM 3		Ch 31 Ecdysozoans Ch 32 Deuterostomes
13	Apr 3 Apr 5	Animal Structure & Function Gas Exchange		Ch 38 Ch 45	Dissection of Fetal Pig
14	Apr 10 Apr 12	Neural Signaling & Regulation Animal Behavior	Quiz 4	Ch 40, 41 Ch 51	Lab Practical 2 Vertebrate gas exchange
15	Apr 17 Apr 19	Cont./Review for Exam EXAM 4	EXAM 4		Squirrel Lab
16	Apr 24 Apr 28	Course Review Saturday, April 28 – 12 pm	FINAL EXAM		

****The instructor reserves the right to make changes to this schedule. If any changes are made, students will be notified verbally in class and in writing on Moodle.**