

**Fundamentals of Life Science II**  
**Fall 2011**

**Biology 2170**  
**Section 002**  
**MW 4:00-5:40 PM**  
**WO1205**

**Staff:** Dr. Sally E. Harmych

**Office:** BO1009A

**Office Hrs:** M 2:00 PM – 3:00 PM  
T 9:30 AM – 11:30 AM  
W 1:00 PM – 3:00 PM, or by appointment

**Phone:** (419) 530 – 4585

**Email:** sally.harmych@utoledo.edu (I will also answer questions pertaining to the course via email)

**Required Materials:**

Sadava, D., Heller, H. C., Orians, G. H., Purves, W. K., Hillis, D. M. 2008 *Life: The Science of Biology*, 9<sup>th</sup> Edition. Sinauer Associates, Inc. Sunderland, Mass.

**Study guide to accompany *Life: The Science of Biology*, 9<sup>th</sup> Edition.** Sinauer Associates, Inc., Sunderland, Mass.

**Turning Technology's Radio Frequency "Clicker" with LCD screen.**

**Course Websites:**

**<http://blackboard.utdl.edu>** The website provides information for the course such as the course syllabus, email and a discussion board.

**Bioportal (<http://courses.bfwpub.com/life9e>)** this is the website associated with the textbook and will be used to complete online homework assignments. This site includes the complete textbook with highlighting, note taking and in-text activities, course assignments, self-quizzing and much more. You should have received an activation code with your textbook. Every student is required to purchase access to this site by August 24<sup>th</sup> the cost is \_\_\_\_\_.

**Evaluation**

**Lecture Questions:** You are required to bring your clicker to *every* class. You will be given 3-4 questions to answer during every class meeting. Correct answers are worth 0.5 points and incorrect answers are worth 0.3 points. Lecture questions cannot be made up if you miss class for any reason. A buffer of 6 points has been figured in so that missing some questions throughout the semester will not penalize you.

**Online Homework assignments:** You will be assigned two types of assignments on Bioportal. These will consist of prelecture quizzes that are due the day before the corresponding lecture for each chapter and pretest assignments which are due the day before each exam. Each assignment will be worth 10 points and will account for 10% of your grade. It is your responsibility to keep up with these assignments, I will not extend due dates.

**Lecture Exams:** You will be given five, one hour midterm exams each worth 100 points. The exams will consist of 50 multiple choice questions and will cover the material covered in lectures and the corresponding textbook material.

**Final Exam:** The final exam is comprehensive and will consist of 100 multiple choice questions (200 pts.). Make sure to check the date and time of the final exam so that you can schedule accordingly. **“I have to work,” is not a legitimate excuse for rescheduling the final exam.**

\*Your final grade will be calculated from a combination of your Lecture Question points (10%), your online homework (10%), the **best four (4)** of five (5) midterm exams (55%) and the final comprehensive exam (25%)

**\*\*\*Academic dishonesty may lead to failure of this course. Read the University policy about this subject\*\*\***

**Grading Scale:** Exams will be scored as % correct points, which will correspond to a letter grade according to the table below. This scale is based on the assumption that knowledge of more than 50% of the material is needed to pass this course.

<u>GRADE</u>	<u>% CORRECT</u>	<u>GRADE</u>	<u>%CORRECT</u>
A	90 – 100	C	67 - 70
A-	87 – 89	C-	63 - 66
B+	83 – 86	D+	59 - 62
B	79 – 82	D	55 - 58
B-	75 – 78	D-	51 - 54
C+	71 – 74	F	0 - 50

**\*\*\*Any student listed in the course after **October 28<sup>th</sup>** can only receive a **grade of A – F**.**

Any student who stops attending class after taking the first test will receive a grade of F for all the missed tests, ***unless that student withdraws from the course by October 28<sup>th</sup>***.

I will only assign **IN** grades in extraordinary cases when unexpected conditions prevent a student from completing the course within the term of enrollment. An IN grade must be removed by the end of the following semester.

### **Classroom Expectations:**

I expect that since you are taking this course you are interested in learning about the subject of biology. The best way to be successful is to read the text, attend lecture, take notes and do your online assignments. It is helpful if you read the text before attending lecture. When you come to lecture it is expected that your focus will be on the material covered, not your cell phone, latest email or Facebook postings, or today’s newspaper. During lecture I will outline the subject matter and cover key points. In addition, attending lecture gives you an opportunity to ask questions about the material and helps me know when you are having difficulties. What is covered in lecture is much more likely to be seen on exams. I encourage you to ask questions if you are having difficulty. You can also ask me questions directly after class, during office hours, via email or over the phone. I am here to help you be successful, but I cannot do that if you do not ask for help.

Please bring a **#2 pencil, an eraser and your valid UT student ID card** to each examination. No student will be permitted to take the exam without proper identification.

Examinations start and end at specified times. Under no circumstances will students be admitted to an exam after the first student has completed the exam and left. If you must miss an exam you must contact me within 24 hours to schedule the make up exam. When we meet you must have a written excuse. If proper documentation is not provided then the missed exam will be scored as your lowest exam score for the semester. If you know in advance that you must miss an exam for a legitimate reason then please see me to schedule an early exam.

**SI Sessions:** Our class is lucky to be participating in the Supplemental Instruction (SI) program here on campus. Throughout the semester study sessions will be held by trained SI leaders. These sessions give you an opportunity to review the material covered in class in a small group setting.

Please see me by the end of the first week of classes if you have special needs concerning testing. Make sure to bring me the proper documentation along with your full name and student number. You may take the exams in the Student Testing center (FH1080).

**Planned Outline of Lectures** (*subject to change*, changes will be announced in lecture)

Aug. 22	Intro. Chapter 2, section 4
24	Chapter 3: Proteins, Carbohydrates, and Lipids
Aug. 29	Chapter 4: Nucleic Acids and the Origin of Life
31	Chapter 5: Cells: The Working Units of Life
Sept. 5	No Class – Labor Day
7	Chapter 6: Cell Membranes
Sept. 12	Exam I (2, 4, 3, 4 & 5)
14	Chapter 8: Energy, Enzymes and Metabolism
Sept. 19	Chapter 9: Pathways that Harvest Chemical Energy
21	Chapter 9: Pathways that Harvest Chemical Energy
Sept. 26	Chapter 10: Photosynthesis
28	Chapter 11: The Cell Cycle and Cell Division
Oct. 3	Exam II (6, 8, 9 & 10)
5	Chapter 11: The Cell Cycle and Cell Division
Oct. 10	Chapter 12: Inheritance, Genes and Chromosomes
12	Chapter 12: Inheritance, Genes and Chromosomes
Oct. 17	No Class – Fall Break
19	Chapter 13: DNA and its Role in Heredity
Oct. 24	Chapter 13: DNA and its Role in Heredity
25	Exam III (11, 12 & 13)
Oct. 31	Chapter 14: From DNA to Protein: Gene Expression
Nov. 2	Chapter 14: From DNA to Protein: Gene Expression

Nov. 7	Chapter 16: Regulation of Gene Expression
9	Chapter 16: Regulation of Gene Expression
Nov. 14	Chapter 18: Recombinant DNA and Biotechnology
16	Exam IV (14, 16 & 18)
Nov. 21	<b>No Class – ONLINE ASSIGNMENT (Chapter 19)</b>
23	No Class – Thanksgiving
Nov. 28	Chapter 19: Differential Gene Expression in Development
30	Chapter 20: Development and Evolutionary Change
Dec. 5	Chapter 20: Development and Evolutionary Change
7	Review Day

**FINAL EXAM: Thursday, December 15, 2:45 – 4:45 PM, WO1205**