

**Fundamentals of Life Science I
Fall 2014**

**Biology 2150
Section 001
MTWR 8-8:50 AM
DC1019**

Staff: Dr. Sally E. Harmych
Office: WO1235K
Office Hrs: T 9:30 -11:00 AM
W 1:00 - 3:00 PM
R 9:30 - 11:00 AM, or by appointment

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

Required Materials:

Morris, J., Hartl, D., Knoll, A., and Lue, R. (2013) *Biology: How Life Works*, W.H. Freeman and Company. New York, NY.

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

Course Websites: Information pertaining to the course will be available on the course website, available via UT's Blackboard portal. If you have issues accessing the portal or with its function you can let me know, but for technical assistance you must contact **Learning Ventures (classic view: <http://blackboard.utdl.edu>, or mobile view: m.utoledo.edu/dl)** In addition to the Blackboard site we will also be utilizing the **Launchpad Portal software** provided with your textbook. This is where you will go to complete your online homework assignments and practice the material. We will discuss more of the features of the Launchpad Portal as the course continues. You will receive an email with the course URL for the Portal. You should bookmark this link so that you have easy access to it. I will also provide a link on the Blackboard site for you to access it.

Assessment: Your grade in this course will be determined from a combination of online homework assignments, in class questions and activities, and exams.

Lecture Questions: Lecture questions will be asked during every class period beginning the second week of classes. These questions will be answered using your clickers. You are required to bring your clicker to **EVERY** class meeting so that you can answer questions. There will not be any make ups for missed clicker questions so it is important to attend all class periods. Clicker questions will be worth 1 point for a correct answer and 0.5 points for an incorrect answer. In order to get credit for using your clicker you will need to register it by clicking on the "Clicker Registration" link in the course menu of the Blackboard site. **Clickers must be registered no later than Friday, September 5, 2014.**

Online Homework assignments: You will be assigned two types of homework assignments, Pre-lecture quizzes and exam review quizzes. The Pre-lecture quizzes must be completed before coming to class and will cover material that will be covered in lecture that day. The exam review quizzes will cover material from all the chapters that will be included on the exam. Each

assignment will be worth 10 points. Your total homework grade will account for 10% of your final grade in the course. It is your responsibility to keep up with these assignments, **I will not extend due dates.**

Lecture Exams: You will be given four (4), one hour midterm exams each worth 100 points. Each exam 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.**

Final Grade Calculation: Your final grade will be calculated from a combination of your Lecture Question points (5%), your online homework (10%), the **best three (3)** of four (4) midterm exams (60%) 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 31** can only receive a **grade of A – F.****

Any student who stops attending class after taking the first exam will receive a grade of F for all the missed exams, ***unless that student withdraws from the course by October 31.***

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 news headlines. 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.

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 left the exam. Extra time will not be given for students that show up late. 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. You may take the exams in the Student Testing center (FH1080).

Planned Schedule of Lectures (Subject to change, changes will be announced in class)

Date		Chapter
August	25	Introduction to the course
	26	Chapter 1: Life: Chemical, cellular and evolutionary foundations
	27	Scientific method activity
	28	Chapter 21: Evolution: How genotypes and phenotypes change over time
September	1	No Class Labor Day
	2	Chapter 21: Evolution: How genotypes and phenotypes change over time
	3	Chapter 22: Species and speciation
	4	Chapter 22: Species and speciation
September	8	Chapter 23: Evolutionary patterns: Phylogeny and fossils
	9	Chapter 23: Evolutionary patterns: Phylogeny and fossils
	10	Chapter 24: Human origins and evolution
	11	Chapter 24: Human origins and evolution
September	15	Review for Exam I
	16	Exam I (Chapters 1, 21, 22, 23, 24)
	17	Chapter 25: Cycling carbon
	18	Chapter 25: Cycling carbon
September	22	Chapter 26: Bacteria and Archaea
	23	Chapter 26: Bacteria and Archaea

September	24	Chapter 27: Eukaryotic cells
	25	Chapter 27: Eukaryotic cells
September	29	Chapter 29: Plant structure and function
	30	Chapter 29: Plant structure and function
October	1	Chapter 30: Plant reproduction
	2	Chapter 30: Plant reproduction
October	6	Review for Exam II
	7	Exam II (25, 26, 27, 29, 30)
	8	Chapter 35: Animal nervous systems
	9	Chapter 35: Animal nervous systems
October	13	No Class - Fall Break
	14	No Class - Fall Break
	15	Chapter 35: Animal nervous systems
	16	Chapter 36: Animal sensory systems and brain function
October	20	Chapter 36: Animal sensory systems and brain function
	21	Chapter 36: Animal sensory systems and brain function
	22	Chapter 37: Animal movement
	23	Chapter 37: Animal movement
October	27	Chapter 37: Animal movement
	28	Chapter 38: Animal hormones
	29	Chapter 38: Animal hormones
	30	Chapter 42: Animal reproduction and development
November	3	Chapter 42: Animal reproduction and development
	4	Chapter 42: Animal reproduction and development
	5	Review for Exam III
	6	Exam III (35, 36, 37, 38, 42)
November	10	Chapter 39: Animal cardiovascular and respiratory systems
	11	NO CLASS Veteran's Day
	12	Chapter 39: Animal cardiovascular and respiratory systems
	13	Chapter 40: Animal metabolism, nutrition and digestion
November	17	Chapter 40: Animal metabolism, nutrition and digestion
	18	Chapter 41: Animal renal systems
	19	Chapter 41: Animal renal systems
	20	Chapter 41: Animal renal systems

November	24	Chapter 43: Animal immune systems
	25	Chapter 43: Animal immune systems
	26	NO CLASS Thanksgiving break
	27	NO CLASS Thanksgiving break
December	1	Chapter 43: Animal immune systems
	2	Case study on immune system function
	3	Review for Exam IV
	4	Exam IV (39, 40, 41, 43)
December	8	Chapter 44: Animal diversity
	9	Chapter 44: Animal diversity
	10	Chapter 47: Species interactions, communities, and ecosystems
	11	Chapter 47: Species interactions, communities, and ecosystems
December	15	Final Exam 8 am - 10 am DC1019