Fundamentals of Life Science I
Spring 2012

Biology 2150
Section 001
MTWR 8:00-8:50 AM
BO1045

Staff: **Dr. Sally E. Harmych**
Office: WO1235K
Office Hrs: M 1:00 PM – 2:00 PM
T 9:00 AM – 12:00 PM
W 1:00 PM – 2:00 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****, 9th Edition*. Sinauer Associates, Inc. Sunderland, Mass.

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

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

Course Website:

http://blackboard.utdl.edu The website provides information for the course such as the course syllabus, email and a discussion board. This will also be where you will complete your online homework assignments.

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. These will account for 10% of your grade. You can register your clicker by going to http://biosciences2.utoledo.edu/prs and filling in the required information. **Clickers must be registered no later than Friday, January 13th.**

Online Homework assignments: You will be assigned two types of assignments on Blackboard. 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.

GRADE	% CORRECT	GRADE	%CORRECT
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 **March 23** 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 March 23.***

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 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. 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 class):

January	9	Introduction/ Chapter 1: Biology, How do scientists do science?
	10	Scientific Method Activity
	11	Chapter 25: The History of Life on Earth
	12	Chapter 25: The History of Life on Earth
January	16	No Class - Martin Luther King Holiday
	17	Chapter 21: Evidence and Mechanisms of Evolution
	18	Chapter 21: Evidence and Mechanisms of Evolution
	19	Chapter 23: Species and Their Formation
January	23	Chapter 23: Species and Their Formation
	24	Chapter 26: Bacteria and Archaea: The Prokaryotic Domains
	25	Review for Exam I
	26	**Exam I (1, 25, 21 & 23)**
January	30	Chapter 26: Bacteria and Archaea: The Prokaryotic Domains
	31	Chapter 27: The Origin and Diversification of Eukaryotes
February	1	Chapter 27: The Origin and Diversification of Eukaryotes
	2	Chapter 30: The Fungi
February	6	Chapter 28 & 29: The Plants
	7	Chapter 28 & 29: The Plants
	8	Review for Exam II
	9	**Exam II (26, 27, 28, 29 and 30)**
February	13	Chapter 31-33: Animals
	14	Chapter 31-33: Animals
	15	Chapter 31-33: Animals
	16	Chapter 31-33: Animals

February	20	Chapter 40: Physiology, Homeostasis and Temperature Regulation
	21	Chapter 40: Physiology, Homeostasis and Temperature Regulation
	22	Chapter 41: Animal Hormones
	23	Chapter 41: Animal Hormones
February	28	Chapter 43: Animal Reproduction
	29	Chapter 43: Animal Reproduction
March	1	Review for Exam III
	2	**Exam III (Animals, 40, 41 and 43)**
March 5-9		**NO CLASS - SPRING BREAK**
March	12	Chapter 42: Immunology: Animal Defense Systems
	13	Chapter 42: Immunology: Animal Defense Systems
	14	Chapter 45: Neurons and the Nervous System
	15	
March	19	Chapter 45: Neurons and the Nervous System
	20	Chapter 45: Neurons and the Nervous System
	21	Chapter 46: Sensory Systems
	22	Chapter 46: Sensory Systems
March	26	Chapter 46: Sensory Systems
	27	Review for Exam IV
	28	**Exam IV (42, 45 & 46)**
	29	Chapter 48: Musculoskeletal Systems
April	2	Chapter 48: Musculoskeletal Systems
	3	Chapter 48: Musculoskeletal Systems
	4	Chapter 49: Gas Exchange in Animals
	5	Chapter 49: Gas Exchange in Animals
April	9	Chapter 50: Circulatory Systems
	10	Chapter 50: Circulatory Systems
	11	Chapter 51: Nutrition, Digestion and Absorption
	12	Review for Exam V
April	**16**	**Exam V (48, 49 & 50)**
	17	Chapter 51: Nutrition, Digestion and Absorption
	18	Chapter 52: Salt and Water Balance and Nitrogen Excretion
	19	Chapter 52: Salt and Water Balance and Nitrogen Excretion

April	23	Chapter 52: Salt and Water Balance and Nitrogen Excretion
	24	Chapter 54: Ecology and the Distribution of Life
	25	Chapter 58: Ecosystems and Global Ecology
	26	Final Review Day
April	**30**	**Final Exam 8-10 am BO1053**