Fundamentals of Life Science I
Spring 2010

Biology 2150-003
Tuesday and Thursday: 1-2.50 pm

Instructor: Dr. Paromita Das

Office Hours: Thursday: 2.50-3.50 pm; Room 1013B-Bowman-Oddy

e-mail: paromita.das@utoledo.edu

Please contact Mrs. Brenda Leady (Brenda.leady@utoledo.edu) or Dr. Sally Harmych (sally.harmych@utoledo.edu) regarding questions about Biology labs. I am unable to stay after class lectures. If you have any questions, please contact me via e-mail or meet me during office hours.

Required Text:

Sadava, D., Heller, H.C. Orians, G.H., Purves, W.K., Hillis, D.M. 2008 LIFE: THE SCIENCE OF BIOLOGY, 8th Edition. Sinauer Associates, Inc. Sunderland, Mass.

Course website: www.dl.utoledo.edu. The website provides information for the course such as syllabus, powerpoints for each chapter, e-mail and a discussion board.

Important Dates:

January 18th –	**No classes Martin Luther King Day**
March 8th-12th –	**No classes –Spring Break**
March -	**Last day to withdraw**

EXAM SCHEDULE:

EXAM I	**TUESDAY, FEBRUARY 9TH**	**100 POINTS**
EXAM II	**TUESDAY, FEBRUARY 23RD**	**100 POINTS**
EXAM III	**THURSDAY, MARCH 25TH**	**100 POINTS**
EXAM IV	**THURSDAY, APRIL 15TH**	**100 POINTS**
FINAL EXAM [COMPREHENSIVE]	**WEDNESDAY, MAY 5TH (2.45 pm-4.45 pm)**	**200 POINTS**

TOTAL EXAM POINTS: ****500 POINTS**

**** Your final grade will be calculated from the best three (3) of the four mid-term exams (300 points) and the final comprehensive exam (200 points).**

PLEASE NOTE THE FOLLOWING:

EXAMS:

- **Each midterm exam will be worth 100 points and will be for a maximum duration of 1 hour.**

- **The exams will consist of 50 questions and will include material covered in lectures and corresponding textbook material.**

- **The final exam will comprise 100 questions and will be worth 200 points. The final exam will be comprehensive i.e. you will be tested on all the lectures covered during the course of the semester.**

- **Exams will be graded as follows:**
  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
A	90-100
A^-	87-89
B	83-86
B	79-82
B^-	75-78
C^+	71-74
C	67-70
C^-	63-66
D^+	59-62
D	55-58
D^-	51-54
F	0-50

- **Any student who stops attending class after taking the first test will receive a grade F for all the missed tests, <u>unless the student withdraws from the course by March _____</u>**

- **I will assign incomplete (IN) in extraordinary cases when unexpected conditions prevent a student from completing the course within the terms of enrollment. An IN grade must be removed by the end of the following semester.**

- **Due to time constraints <u>I WILL NOT BE ABLE TO GIVE MAKEUP EXAMS.</u>**

  If you must miss an exam, that exam will be scored as your lowest scoring exam and dropped from your final score. If you know you will miss an exam for a legitimate reason (e.g. sickness-please provide doctor's note, death in family), please see me to schedule an early exam. "I have to work'' etc. is not an acceptable excuse.

- **Exams start and end at specified times. Under no circumstances will students be admitted to an exam, which has been in progress for longer than 10 minutes.**

- **Please bring a # 2 pencil, an eraser and your valid UT student ID card to each exam. No student shall take an exam without proper identification.**

<u>EXPECTED CLASSROOM BEHAVIOR:</u>

<u>1.</u> Attendance is not mandatory, however, I will cover important points in the lecture. If you miss the lecture, it is your responsibility to obtain the lecture notes.

<u>2.</u> Please pay full attention during lecture. Use of cell-phones, pagers, arriving late or leaving early, and talking during class are not acceptable.

<u>3.</u> The powerpoint presentation of all lectures is available on WebCT.

SYLLABUS for BIOL-2150-003

Chapter (1) Studying life
Chapter (21) The history of life on earth
Chapter (22) The mechanisms of evolution
Chapter (23) Species and their formation
Chapter (24) The evolution of genes and genomes
Chapter (25) Reconstructing and using phylogenetics
Chapter (31) Animal origins and the evolution of body plans
Chapter (32) Protosome animals
Chapter (33) Dueterosome animals
Chapter (40) Physiology, homeostasis and temperature regulation
Chapter (51) Salt and water balance and nitrogen excretion
Chapter (41) Animal hormones
Chapter (42) Animal reproduction
Chapter (44) Neurons and nervous system
Chapter (45) Sensory systems
Chapter (47) Effectors: how animals get things done
Chapter (48) Gas exchange in animals
Chapter (49) Circulatory systems
Chapter (50) Nutrition, digestion and Absorption
Chapter (52) Ecology and the distribution of life
Chapter (53) Behavior and behavioral ecology
Chapter (56) Ecosystems and global ecology