

Syllabus

Fundamentals of Life Science II: Cells, Inheritance & Development

BIOL 2170 Section 001 Spring 2011

Class Meeting Times: MTWR 8-8:50 am

Location: Snyder Memorial Room 2110

Instructor:

Dr. Paromita Das

Visiting Assistant Professor

Dept. of Biological Sciences MS 601

Office: **Bowman-Oddy Bldg. Room 1009 B**

Office hours: Monday: 9.00 a.m. to Noon

Tuesday: 9.00 a.m. to 11.00 a.m.

Thursday: 9.00 a.m. to 11.00 a.m. or by appointment

e-mail: paromita_das@utoledo.edu

Phone: 419-530-4292

COURSE REQUIREMENTS

- **Text Book:** The Science of Biology: Ninth Edition by Sadava, Hillis, Heller and Berenbaum
- **Access to BioPortal for homework assignments:** <http://courses.bfwpub.com/life9e>
Homework assignments and quizzes will be posted online at the website listed above. You are required to purchase access to the BioPortal for completing homework assignments which comprise 12% of your overall grade. You will also need BioPortal access for online quizzes (8% of overall grade). If you purchased a ninth edition textbook, you should have received a code which you need to activate by visiting the website listed above.

Note: If you have an older edition textbook, you may purchase just the access code (**for \$18.75**). This code may be purchased online at: http://courses.bfwpub.com/life9e_noebook.php. Once activated, the code is valid for 730 days. If you have any questions or issues regarding Bioportal access or setup, please contact the technical helpline: 1-800-936-6899.

- **Activate your UTAD accounts:** <http://myutaccount.utoledo.edu>
Your UTAD account must be activated in order for you to access Blackboard
- **Access to Blackboard:** <http://blackboard.utdl.edu>
This site will be used for posting lectures, class schedule changes, exam announcements, posting grades, class cancellation announcements and everything else related to the course. Please be sure to check it frequently.

IMPORTANT DATES

Last Day to Add/Drop Class: Monday, January 24

Last Day to Withdraw: Friday, March 25

Final Exam: Monday, May 2, 8-10 am

CLASS EXAM SCHEDULE (Synder Memorial 2110)

February 3 (7.45- 8.50 am)	Exam 1	100 points
February 24 (7.45- 8.50 am)	Exam 2	100 points
March 24 (7.45- 8.50 am)	Exam 3	100 points
April 14 (7.45- 8.50 am)	Exam 4	100 points
May 2 (8-10 am)	Final Comprehensive Exam	200 points

HOW YOU WILL BE EVALUATED IN BIOL-2170-001

Your performance in class will be evaluated by :

1. Online BioPortal Homework assignments: You need access to BioPortal to complete homework assignments. Homework assignments with due dates will be available in the BioPortal system and will account for 12% of your final grade. These assignments are geared towards getting you prepared for the exam. You have 3 attempts to answer each question on the homework. PLEASE NOTE: These are not exam questions but will be similar in content and focus of what you will be tested on. Please ensure that you keep up with these assignments. I will not extend due dates.

2. Lecture Exams: You will be given *four*, 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. Your lowest scoring midterm exam will be dropped for calculating final letter grade.

3. Online BioPortal Quizzes: You will be given *two quizzes* worth 25 points each during the semester. Unlike, the homework assignments, these quizzes will be given on a specific date and will have a time limit allotted and you will have only one attempt to answer the questions. Announcements will be made in class and on blackboard about the specific date and time limit allotted.

4. Final Exam: Final exam is comprehensive and will consist of 100 multiple choice questions (200 points total) consisting of materials covered throughout the semester. You are encouraged to come during office hours to look over your midterm exams.

FINAL LETTER GRADE CALCULATION: Your final grade will be calculated from

The **best three (3)** of four (4) midterm exams (**55%**) [the lowest scoring exam will be dropped]
+ Online homework (**12%**)
+ Online quizzes (**8%**)
+ Final comprehensive exam (**25%**)
= **100%**

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>% CORRECT</u>	<u>Grade</u>	<u>Standard</u>
90-100	A	Outstanding achievement
87-89	A-	Slightly less than outstanding
83-86	B+	Achievement of more than high quality
79-82	B	Achievement of high quality

75-78	B-	Achievement of slightly less than high quality
71-74	C+	Achievement of more than acceptable quality
67-70	C	Acceptable quality
63-66	C-	Less than acceptable quality
59-62	D+	Above the quality expected
55-58	D	Below the quality expected
51-54	D-	Below the quality expected
0-50	F	

***Any student listed in the course after **March 25th** 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 25th***.

EXPECTED CLASSROOM ETIQUETTE

1. It is important to realize that the classroom is an environment for learning which you share with fellow students. You are expected to respect and follow the rules set by your instructor and conduct yourselves in a professional manner.
2. Please **switch off** cell phones/pagers/iPods (or switch to silent mode) when attending class. If you must take a call, please exit the classroom with a minimum of disruption. Accessing your cell phones, pagers etc. during exams constitutes academic dishonesty.
3. Please, don't engage in loud disruptive conversation/noise when class is in session.
4. Your performance in this class will likely be closely correlated to attending lectures, taking notes, completing homework by due dates, attending review sessions. I hope that you are motivated to make the most out of your classroom experience and will assume responsibility for your education. Please do not hesitate to ask questions or for a point to be repeated. Active class participation is encouraged.
5. I hold review sessions prior to each exam. These may be helpful as certain important concepts covered in class are reiterated and lecture topics critical from the point of view of an exam are identified. If you attend these sessions please ensure that you write down detailed notes, I cannot provide written review sheets prior to each exam.

ONLINE ETIQUETTE

It is important to conduct yourselves professionally not only in the classroom but also when you are online. Please be mindful of the language, content and tone of your e-mails, discussions etc.

ETIQUETTE DURING EXAM

Exams will start and end at specified times. Under no circumstances will students be admitted to an exam, which has been in progress for longer than 15 minutes. You will not be given extra time to complete the exam if you show up late. ***Taking Exams at the scheduled date and time should be a priority over everything else.*** If you commute make sure you leave from your home with adequate time in hand.

Please bring two # 2 pencils and your UT Rocket ID card during all exams.

ACADEMIC DISHONESTY

Please read complete UT policy on academic dishonesty. You may get an F grade if you engage in cheating in any form.

POLICY ON MAKE-UP EXAMS

MAKE-UP exams will be given only under special circumstances with a valid written excuse. These include serious illnesses, death in family etc. *Remember that you are limited to **only one (1) MAKE UP exam** during the entire semester. Use this judiciously.*

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.

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).

EXAMS DURING INCLEMENT WEATHER CONDITIONS

Please look for announcements on the UT website at www.utnews.utoledo.edu

- Unless the University of Toledo has **officially** declared that classes are **cancelled** due to inclement weather, exams **will be given** as scheduled.
- If the University cancels classes due to inclement weather check Blackboard announcements regarding when you can take the scheduled exam.

TENTATIVE Class Schedule

NOTE: This schedule is **subject to change**; changes will be announced in class and on Blackboard.

January	10	Introduction/Syllabus, Chapter 3: Protein, Carbohydrates and Lipids
	11	Chapter 3: Protein, Carbohydrates and Lipids
	12	Chapter 3: Proteins, Carbohydrates and Lipids
	13	Chapter 4: Nucleic acids and the Origin of Life
January	17	Martin Luther King day: NO CLASS
	18	Chapter 4: Nucleic acids and the Origin of Life
	19	Chapter 4: Nucleic acids and the Origin of Life
	20	Chapter 5: Cells: the Working Units of Life
January	24	Chapter 5: Cells: the Working Units of Life
	25	Chapter 5: Cells, the Working Units of Life
	26	Chapter 5: Cells: the Working Units of Life
	27	Chapter 6: Cell Membranes
January	31	Chapter 6: Cell Membranes

February	1	Chapter 6: Cell Membranes
	2	Exam 1 -Review
	3	Midterm Exam 1 (Chapters 3, 4 and 5)
February	7	Chapter 6: Cell Membranes
	8	Chapter 8: Energy, Enzymes and Metabolism
	9	Chapter 8: Energy, Enzymes and Metabolism
	10	Chapter 8: Energy, Enzymes and Metabolism
February	14	Chapter 9: Pathways that harvest chemical energy
	15	Chapter 9: Pathways that harvest chemical energy
	16	Chapter 9: Pathways that harvest chemical energy
	17	Chapter 10: Photosynthesis: Energy from Sunlight
February	21	Chapter 10: Photosynthesis: Energy from Sunlight
	22	Chapter 10: Photosynthesis: Energy from Sunlight
	23	Exam 2- Review
	24	Midterm Exam 2 (Chapters 6, 8, and 9)
February	28	Chapter 11: The Cell Cycle and Cell Division
March	1	Chapter 11: The Cell Cycle and Cell Division
	2	Chapter 11: The Cell Cycle and Cell Division
	3	Chapter 12: Inheritance, Genes and Chromosomes
March 7-11 SPRING BREAK: NO CLASSES		
March	14	Chapter 12: Inheritance, Genes and Chromosomes
	15	Chapter 12: Inheritance, Genes and Chromosomes
	16	Chapter 13: DNA and its role in heredity
	17	Chapter 13: DNA and its role in heredity
March	21	Chapter 13: DNA and its role in heredity
	22	Chapter 13: DNA and its role in heredity
	23	Exam 3- Review
	24	Midterm Exam 3 (Chapters 10, 11 and 12)
March	28	Chapter 14: From DNA to Protein: Gene Expression
	29	Chapter 14: From DNA to Protein: Gene Expression
	30	Chapter 14: From DNA to Protein: Gene Expression
	31	Chapter 14: From DNA to Protein: Gene Expression
April	4	Chapter 16: Regulation of Gene Expression
	5	Chapter 16: Regulation of Gene Expression
	6	Chapter 16: Regulation of Gene Expression
	7	Chapter 16: Regulation of Gene Expression
April	11	Chapter 18: Recombinant DNA Technology
	12	Chapter 18: Recombinant DNA Technology
April	13	Exam 4 - Review
	14	Midterm Exam 4 – Chapters 13, 14 and 16
April	18	Chapter 18: Recombinant DNA Technology

	19	Chapter 19: Differential Gene Expression in Development
	20	Chapter 19: Differential Gene Expression in Development
	21	Chapter 19: Differential Gene Expression in Development
April	25	Chapter 20: Development and Evolutionary Change
	26	Chapter 20: Development and Evolutionary Change
	27	Chapter 20: Development and Evolutionary Change
	28	<i>Final Exam - Review</i>
May	2	COMPREHENSIVE FINAL EXAM (Chapter 18, 19, 20 + all chapters covered during the semester)