

Montgomery County Community College- West Campus

BIO 121: **General Biology I Spring 2007.**

Instructor: Dr. Beena Patel bpatel@mc3.edu

Class Meeting: MWF 10:10 am -12:10pm Room no. 218

Required Text: Biology 9th Edition by Sylvia S. Mader

Required Lab manual: General Biology Laboratory Manual 4th Edition by R. *Wayne Habermehl and Christopher Harendza*

Course Description: A study of the unifying principles which govern the operation of all living things; including biological chemistry, energy, metabolism, cell biology and genetics. This course is designed for non-science majors.

Learning Goals:

Upon completion of this course, the student should be able to understand

- To gain historical perspective about scientific and biological discoveries
- To understand concept of life
- The process and role of science in world society
- To understand crucial role of water in biological and nonbiological system
- To develop critical thinking skills regarding biology
- To develop the ability to think through complex process and come away with the main idea behind that process

Learning activities:

The learning activities may includes lectures, class discussion, peer teaching, videos, labs, group discussion of current articles, home work, exams and quizzes.

Note: Computer skills are necessary. All lab write-ups and homework must be typed. We communicate through blackboard, an online server.

Course policies

- Attendance policy: As student enrolled in Bio 121, you are expected to attend all lecture and lab class periods. I will record attendance for each class and lab period. You are allowed two absences for a Monday, Wednesday or Friday. For each additional absence, your final average in the course will be lowered by one point.

Tardiness for any class or lab day will count as one half of one absence **(1/2)**. Tardiness means that either you are late or that you leave early, failing to complete the assignment for that day. With a valid reason, work missed due to absences or tardiness can be made up.

Note: If I cancel a class period on the scheduled exam day, or if the college cancels the class, I will take the exam at the beginning of the very next scheduled class period.

- There will be quiz prior to each lab session. No make-up quizzes (including late arrival)

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- There are no make –up exams. Your lowest score for a chapter exam will be dropped. If you miss an exam, this will be your dropped exam
- Cheating on any course work will result in zero for course
- MCCC complies with the Americans with Disabilities Act (ADA). If you have any need for special accommodation, please see me after class (first 2 weeks of class)

Spring 2007 Syllabus: (Bio 121 CW)

<u>Topic:</u>	<u>Chapter:</u>	
01/17/07	Introduction to course; View of Life	1
01/19/07	Chemical Foundations for Cells	2
01/22/07	Lab: Scientific Method (HO)	
01/24/07	Chemical Foundations; Organic Molecules	2,3
01/26/07	Organic Molecules; Carbon Compounds in Cells	3
01/29/07	Lab 1: Biological Molecules	
01/31/07	Review for Exam I	
02/02/07	Exam I	
02/05/07	Enzymes & Metabolism	6
02/07/07	Metabolism & Cell Structure	6,4
02/09/07	Lab 2: Enzyme Activity	
02/12/07	Cell Structure & Function	4
02/14/07	Membrane Structure	5
02/16/07	Lab 3: Compound Microscope; Lab 4: Cells & Tissues	
02/19/07	Review for Exam II	
02/21/07	Exam II	
02/23/07	Lab 5: Osmosis	
02/26/07	Photosynthesis	7
02/28/07	Lab 7: Photosynthesis	
03/02/07	Photosynthesis (con't)	7
03/05/07	Cellular Respiration	8
03/07/07	Lab 8: Fermentation	
03/09/07	Cellular Respiration (con't); Cell Cycle and Mitosis	8,9
3/12-3/16	Spring Break	
03/19/07	Review for Exam III	
03/21/07	Exam III	
03/23/07	Meiosis; Mendelian Patterns of Inheritance	10,11

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03/26/07	Mendelian Patterns of Inheritance, con't	11
03/28/07	Lab 6: Cell Division; Rebops (HO); Human Genetics (HO)	
03/30/07	Chromosomal Patterns of Inheritance	12
04/02/07	Human Genetics; Gene Linkage	12
04/04/07	Review Exam IV	
04/06/07	Exam IV	
04/09/07	DNA Structure and Function	13
04/11/07	Lab 9: Isolation of DNA	
04/13/07	Gene Activity: How Genes Work	14
04/16/07	Regulation of Gene Activity	15
04/18/07	Lab: DNA Fingerprinting (HO)	
04/20/07	Biotechnology & Genomics	16
04/23/07	Review Exam V	
04/25/07	Exam V	
04/27/07	Review Final Exam	
04/30/07	Review Final Exam	
05/02/07	<i>Reading Day</i>	
05/03-05/09	Finals Week	

Grading

Lecture exam	5
Departmental Final	1
Lab quizzes	10
Lab write-ups	3
Written assignments and home work	2-3

All students are expected to adhere to the policies as written in the Student Academic Code of Ethics Hand book.

Grading scale:

90-100%	A
80-89%	B
70-79%	C
60-69%	D
59%↓	F

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Request for grade of W will be denied after the last day of classes (11/29/06)

- College closure announcements are found on MC3 home page
- Snow number is 395 (Listen to WPAZ- 1370, call 610 718-1800 or MCCC home page)

I have read the above and fully understand all policies.

Signature: _____ Date: _____