

BRAZOSPORT COLLEGE

SYLLABUS

GENERAL BIOLOGY I: BIOL 1406

Instructor Contact Information:

Instructor: Daryl Beatty

Web page: www.brazosport.edu

Office: B232

Office Hours: M: 10:00am – 12:30 pm

Office Phone: (979) 230-3433

T: 11:00 – 1:30 pm

Department Phone: (979) 230-3225

W: 12:30 – 12:30 pm

R: 11:00 – 1:30 pm

Email: daryl.beatty@brazosport.edu

Other: by appointment

Course Description:

General Biology I is a survey of the fundamental principles of living organisms including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of reproduction, genetics, ecology, and the scientific method are also included.

Course Objectives:

1. Understand and apply methods and appropriate technology to the study of natural sciences.
2. Recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.
3. Identify and recognize the differences among competing scientific theories. Learn to critically assess scientific data, and draw conclusions.
4. Demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.
5. Demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.

Texts and Other Materials:

Lecture: Biological Science, 3rd edition: Freeman, ISBN: 013224950 (It is OK to use a previous edition – but you MUST purchase access for online “Mastering Biology”)

Lab: Encounters With Life, 7th edition: Wachtmeister and Scott, ISBN: 0895826852

Optional: A Photographic Atlas for Biology Laboratory 5th edition: Van de Graff and Crawley, ISBN: 0895826844

Outlines for notes available online: www.darylbeatty.org

Students with Disabilities:

BC is committed to providing equal education opportunities to every student. Brazosport College offers services for individuals with special needs and capabilities including counseling, tutoring, equipment, and software to assist students with special needs. Please contact the Special Populations Counselor, 979-230-3236 for further information.

Academic Honesty:

BC assumes that students eligible to perform on the college level are familiar with the ordinary rules governing proper conduct including academic honesty. The principle of academic honesty is that all work presented by you is yours alone. Academic dishonesty including, but not limited to, cheating, plagiarism, and collusion shall be treated appropriately. Please refer to the Brazosport College Student Guide for more information, this is available online at <http://www.brazosport.edu>, click on the link found on the left side of the homepage.

We regret that this section is necessary. Trust me on this, if you cheat, you will probably be caught. Specific to this course, if a student is found to be cheating on a test or lab quiz, or allowing another student to cheat off of them the minimum punishment for the first offence will be withdrawal from the course. The maximum will be an "F" in the course. Obviously, there is no second offence. This applies to both class and lab.

Student Services Provided by the College:

Information about the Library is available at www.brazosport.edu/~lib/Information.htm or by calling 979-230-3310.

Information about study skills and tutoring for math, reading, writing, biology, chemistry, and other subjects is available in the Learning Assistance Center (LAC), see www.brazosport.edu/~lac or call 979-230-3253.

To contact the Math/Life Science Department call (979) 230-3225.

The Student Services area provides assistance in the following:

Counseling and Advising: 979-230-3040

Financial Aid: 979-230-3294

Student Activities: 979-230-3355.

To reach the Information Technology Department for computer, email, or other technical assistance call the Helpdesk at 979-230-3266.

Student Responsibilities:

Students are expected to fully participate in the course. The following criteria are intended to assist you in being successful in this course.

- a. Understand the syllabus requirements
- b. Use appropriate time management skills.
- c. Communicate with the instructor.
- d. Complete course work on time, and
- e. Utilize online components (such as WebCT) as required.

Instructor Guidelines and Policies:

Attendance to all classes is mandatory. If you miss a class you are still responsible for the material covered and any announcements/assignments made during the class period. Identify 1 or more classmates that you can contact to check on the day's activities in case you must miss a class.

Withdrawal: It is your responsibility to withdraw from the class if you find it necessary. Withdrawal deadline date is March 26th.

Tardiness - roll will be checked at the beginning of the class period. If you are tardy you will be marked absent. Your attendance is a part of your grade.

Cell Phones: Turn your cell phones **OFF** before entering the classroom – lecture and lab. If you have a possible emergency situation, let me know before class that day, and we will make an exception to the rule. No cell phones or PDAs are allowed on your person during exams. You will be asked to place all items, including books, papers, cell phones and PDAs at the front of the room before taking lecture tests. If you do not want to place your items at the front of the classroom unattended, please leave them in your car/home on test days.

Extra Credit will **NOT** be available.

Honors Credit – Honors credit is available in this course. A presentation and a paper will be required. If you are interested, contact the instructor.

Grading: Your course grade will be determined by adding the points earned in lecture and lab. There are 500 possible points in lecture tests 200 points from online homework, and 200 possible points in lab. The total points available are 900.

Lab: Lab will consist of a variety of learning methods, including microscope use, observation, hands-on experiments, and dissections. There are 12 quizzes/assignments, each worth 20 points, given over the course of the semester. The 2 lowest scores are dropped leaving 10 quizzes/assignments worth 20 points each for a total of 200 possible points. **THERE ARE NO MAKE-UP LABS.** Because there is 1 or more quiz/assignment given each week, regular attendance is absolutely necessary. **LAB ATTENDANCE, AND A SATISFACTORY LAB GRADE IS REQUIRED TO PASS THE COURSE.**

Lecture: There will be 5 lecture exams worth 100 points each for a total of 500 points and 100 points from various assignments. Lecture exams will consist of multiple choice, matching and short essay questions. Those students taking all 5 exams are exempt from the final exam. There are **NO MAKE-UP EXAMS.** Those students who miss an exam or those students who want to replace a low score on one of their exams may take a **COMPREHENSIVE FINAL EXAM** during finals week.

TRACKING MY GRADES: (Please keep track on your own)

LECTURE EXAMS :

Exam # 1 _____ (100 Points each)
Exam # 2 _____
Exam # 3 _____
Exam # 4 _____
Exam # 5 _____
A. TOTAL _____ (500 Possible)

Online Homework & Class Assignments & Attendance

#1 Average of all online scores (150) _____
#2 Class Participation (20 Points) _____
#3 Attendance (30 points) _____ (Late may count as absent)
B. TOTAL _____ (200 Possible)

LAB GRADES: Drop two lowest grades

Grade 1 (20 points each) _____ (20 points each)
Grade 2 _____
Grade 3 _____
Grade 4 _____
Grade 5 _____
Grade 6 _____
Grade 7 _____
Grade 8 _____
Grade 9 _____
Grade 10 _____
Grade 11 _____
Grade 12 _____
C. TOTAL (10 highest grades) _____ (200 Possible)

FIGURING MY GRADE:

1. Add lines A, B and C _____
2. Divide by 9 _____
3. Compare to grading scale 90-100 = A, 80-89.9=B, 70-79.9=C, 60-69.9=D

(If that yields an "A", you are exempt from taking the final. If you take the final, and score higher than one of your exam grades, it will replace that grade.)

**GENERAL BIOLOGY I
TENTATIVE SCHEDULE FALL, 2009
MW CLASSES**

DATE	LECTURE TOPIC	READING ASSIGNMENT
1/12/10	Biology & the Tree of Life	Chapter 1
1/14 and 1/19	Atoms & Molecules	Chapter 2
1/21	Protein Structure/Function	Chapter 3
1/26	Nucleic Acids	Chapter 4
1/28/2010	Exam 1 (Ch 1-4)	
2/2	Carbohydrate Structure and Function	Chapter 5
2/4 and 2/9	Lipids and Membranes	Chapter 6 Chapter 8 selections
2/11 and 2/16	Inside the Cell	Chapter 7
2/18/2010	Exam 2 (Ch 5-8)	
2/23 and 2/25	Cellular Respiration	Chapter 9
3/2 and 3/4	Photosynthesis	Chapter 10
3/4/2010 (Was 3-9)	Exam 3 (Ch 9 & 10)	
3/11	The Cell Cycle and Mitosis	Chapter 11
3/15 to 3/19	Spring Break	
3/23	Mitosis cont'd Meiosis	Chapter 12
3/25	Mendel and the Gene	Chapter 13
3/26	LAST DAY TO DROP (But we hope you won't need to!)	
3/30	Mendel cont'd DNA synthesis	Chapter 14
4/1/2010	Exam 4 - Ch 11-14	
4/6	The Genetic Code	Chapter 15
4/8 and 4/13	Transcription and Translation	Chapter 16
4/15	Control of Gene Expression	Chapter 18
4/19 and 4/21	Genetic Engineering	Chapter 19
4/27/2010	Exam 5 - Ch 15,16,18,19	
4/29/2010 8AM	Final Exam (NOTE: 8AM not regular time, big buzz kill if you show up at 9:30)	Remember 8AM

