



BIOL 1608: Principles of Cell Biology II

Lecture Syllabus

Spring 2008

General Information

- Professor: Allison D'Costa, Ph.D.
adcosta@ggc.usg.edu
Office: C227 Office phone: 678 407 5759
Office hours: By appointment
- Time: Section 1: MWF 2.00 – 2.50pm
Section 2: TR 9.30 - 10.45am
- Where: Section 1: Room C- 2130
Section 2: Room C- 2130
- Textbook: *Biology*, 8th edition, (2008) by Raven et al. McGraw Hill Publishers. Website www.ravenbiology.com

WebCT Vista and GGC email will be used as a means of communication

Course Description

Principles of Cell Biology II, is the second of a two semester introductory course for Biology majors interested in the Cell Biology and Biotechnology track. The course will give students an understanding of gene organization, flow of genetic information from gene to protein, gene regulation, cell communication, cell differentiation and diversity.

Course Goals

- Acquire an understanding of the processes involved in the flow of information from gene to protein.
- Understand processes involved in cell communication.
- Understand processes involved in cellular differentiation and subsequent diversity of cells and how it contributes to diversity of organisms.
- Become familiar with the organization of cells into tissues, tissues into organs, organ systems, organisms, etc.
- Become familiar with biological terms and issues and be able to use them in oral and written communication.
- Gain the ability to apply biological knowledge to real world problems.

Grading Policy

Grades will be assigned according to the following scale:

A = 100-90 B = 89.9-80 C = 79.9-70 D = 69.9-60 F <60

1.	Participation	10%
2.	Quizzes	20%
3.	Writing assignments	15%
4.	Exam 1+2+3 (in class)	30%
5.	<u>Comprehensive final examination</u>	<u>25%</u>
	Total	100%

1. Participation

Attendance to all lectures is required and not showing up will negatively impact your grade. We will be covering much material each week, and therefore it is in your best interest to take attendance very seriously. Attendance will be taken at the beginning of each class; if you arrive after attendance has been taken for that day, you will be counted as absent. Avoiding this is simple: **arrive on time**. If there is a medical emergency or any other serious problem, you must let your Professor know as soon as possible that you cannot attend. These are called *excused* absences. Not showing up without an excuse is considered an *unexcused* absence. **If you have four unexcused absences during the course you will lose your entire participation grade, and any further absences will result in a 10-point deduction from your total point score for each additional class missed.**

Students who never attend a class by the end of the first two weeks of the term will be reported for non-attendance. Students who do not drop a class during the schedule adjustment period and are reported for non-attendance will be automatically dropped from that course.

If you feel that you are unable to complete your courses due to illness or family emergency, contact the Registrar's Office or the Office of Enrollment Management to attempt to withdraw from your courses without penalty.

Active participation in class means being able to answer questions that are put to you in class, as well as ask good questions. It also includes participation in group discussions. Coming well prepared to class will enable you to be an active participant.

Wiki website: This term we will be part of an experiment using a Wiki web site to assist you in learning the material. You are encouraged to actively contribute to the website, and will be graded for your participation.

2. Quizzes

Eight short quizzes of 10 points each will ensure that you come prepared to class. Points from the 2 worst quizzes will be dropped. **Missed**

quizzes cannot be made up.

3. **Writing Assignments**

Written assignments are due on the announced day and at the time the class normally meets. If the student is absent on this day, he/she must ensure that the assignment is turned in on time. **For the first two late days, 10% of the grade will be deducted; on the third late day the assignment will receive a zero.** If submission is not possible due to illness or emergency, documentation must be provided. Computer or printer malfunction will not be considered an acceptable excuse for late work, so please plan accordingly.

4. **Exams**

Exam 1,2 and 3 will be in class exams, each 100 points. They will be a combination of multiple choice, matching, short answers and essay questions.

Makeup exams will be allowed only under extraordinary circumstances, and must be made up within 2 days of the regular exam. Students must notify the Professor **THE DAY** of the exam if an emergency arises and they miss the exam. A valid written excuse is required such as a doctor's note, ER form or police report. Makeup exams will be different from the regular exam, and could be more difficult. Special arrangements to take the regular exam early must be made in advance and in writing, and will be available only under extreme circumstances.

5. **Final exam**

This is a comprehensive exam worth 250 points, and will have the same format as the other exams. It will comprise of 50% old material and 50% new material. **The final exam cannot be rescheduled.**

Academic respect

You are expected to be an active, attentive participant in the class. You are also expected to abide by class policies and procedures and to treat faculty and other students in a professional, respectful manner. Inappropriate behavior such as sleeping during class or disrupting the class will result in you being asked to leave and you will be counted absent. You are expected to be familiar with the student conduct code published in the Student Handbook.

Academic Dishonesty

The GGC Honor Code states: "I will not lie, steal, or cheat, nor tolerate the actions of those who do". All work submitted by you for grade must be your own. Plagiarism is a form of cheating that involves presenting as one's own, ideas or

work of another. Cheating in any form will not be tolerated, and could result in a failing grade on the specific document and possible dismissal from the class.

Cell phone policy

Please TURN OFF all cell phones and beepers before the start of class!
Repeated interruptions of class by cell phones ringing will result in you being asked to leave the class.

CELL PHONES ARE NOT ALLOWED TO BE ON DESKS OR ANSWERED DURING EXAMS. IF A CELL PHONE IS ANSWERED OR HANDLED DURING AN EXAM WITHOUT THE INSTRUCTOR BEING NOTIFIED OF AN EMERGENCY PRIOR TO THE EXAM, THE STUDENT WILL RECEIVE A GRADE OF "0" ON THAT EXAM. NO MAKE UP EXAM OR EXTRA CREDIT WILL BE GIVEN TO COMPENSATE FOR THIS GRADE.

Course change

This course syllabus provides a general plan for this course. The professor reserves the right to make changes to the syllabus, including changes to assignments, projects, examinations, etc., in order to accommodate the needs of the class as a whole and fulfill the goals of the course. Students will be notified well in advance of any changes.

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Lecture Schedule

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All dates and topics are subject to change

Week of	Chapter	Topic
1/7	14 15	DNA: the genetic material - review Genes and how they work
1/14	15	Genes and how they work
1/21	15 16	Genes and how they work Control of Gene expression
1/28	16	Control of Gene expression
2/4	16 9	2/4 – 2/5 EXAM 1 covers chpt. 15-16 Cell communication
2/11	9 46	Cell communication The Endocrine System
2/18	14*, 15*, 10*	Mutation, DNA Repair, Cancer
2/25	26*, 27*, 28* 29*, 31*	Bacteria, Prokaryotes, Viruses, Fungi & Protists
3/3	26*, 27*, 28* 29*, 31*	Bacteria, Prokaryotes, Viruses, Fungi & Protists 3/5- 3/6 EXAM 2 covers chpt. 9, 46, 14*, 15*, 10* 26*, 27*, 28*, 29*, 31*
3/10		NO CLASSES - SPRING BREAK
3/17	53 19	Animal Development Cellular Mechanisms of Development
3/24	53 19	Animal Development Cellular Mechanisms of Development
3/31	4*, 19*	Cytoskeleton 4/2- 4/3 Exam 3 covers chpt. 53, 19 and 4*
4/7	43	The Animal Body and Principles of Regulation
4/14	44	The Nervous system
4/21	51	The Immune System
4/28		Last Day of Class
		Comprehensive FINAL EXAM for MWF TBA
		Comprehensive FINAL EXAM for TR TBA