

UTRGV COURSE SYLLABUS

BMED 4250 Advance Cell Biology
Term: Fall 2015
Meeting times and location: Tuesdays 9.00
– 10.40 am, BRHP 1.207

Instructor Name: Dr. Sue Anne Chew
Instructor Office and Telephone #: 956-882 6518
Instructor Office Hours: Mon and Th, 2.00-4.00 pm
Instructor Email: SueAnne.Chew@utrgv.edu

*****This syllabus represents the current course plans and objectives. As we go through the semester, those plans may need to be change to enhance the class learning opportunity. Any changes made will be updated in the syllabus and communicated to the students.***

Textbook and/or Resource Material (you can get either one of these, you do not need both version)

Molecular Biology of the Cell, 6th edition, ISBN: 9780815344322 (TEXT BOOK version, ~\$165)

Molecular Biology of the Cell, 6th edition, ISBN: 9780815345244 (LOOSE-LEAF version, ~\$100)

Course Description

This advance level course employ knowledge of the general components of cells to explain how different components of cell contribute to cellular and organism function

Learning Objectives/Outcomes for the Course

Student Learning Outcomes

At the end of this course, the students are expected to be able to:

- Be familiar with the terminology and concepts of advance areas of cell biology
- Display the ability to communicate scientific information clearly and precisely utilizing the terminology in the discipline
- Have the ability to read and understand scientific literature in the cell biology field
- Be capable of applying and linking concepts learned in this course to other discipline within the biomedical field

Departmental Learning Outcomes

Departmental learning outcomes that are met by this course are:

- Students will be able to demonstrate a substantial factual knowledge base and a grasp of the major concepts of biochemistry and be able to relate them to the medical field
- Students will perform satisfactorily in standardized graduate examinations
- Students will be able to research a topic using standard electronic and non-electronic methods
- Students will be able to communicate complex scientific ideas, concepts, and theories by oral and written means
- Students will appreciate the role of research in the biological, biomedical, and clinical sciences

Course Pre-Requisites, Co-Requisites, and/or Other Restrictions

BMED 1101 and BMED 1103

Grading Policies

- ***Individual and Team Readiness Assurance Test (iRAT (10%) and tRAT (10%), 20% total)***
At the beginning of class, you will be tested on the reading materials that you are supposed to go over before class. Your two lowest iRAT and two lowest tRAT will be dropped.
- ***Team Based Learning (TBL)/In Class Activity (20%)***
During class, you may be asked to perform an activity as a group that will help you further understand the objectives of the lesson of the week. If you do not attend class that day, you will get a zero for the in-class group

activity. You may also be given homework for certain topics for the course which will be due at the start of the next class. **Late assignments will not be accepted.**

- **Group Presentation (20%)**

As a group, you will prepare and present a powerpoint presentation at the end of the semester. You will present and review a manuscript which involves a discovery (research article) involving a topic(s) in cell biology that we will go over in this course. Please make sure to get prior approval for the manuscript you have chosen. A rubric of the assignment will be shared with you later in the semester.

- **Exams (40%)**

You will be taking three exams in this course which will be worth an average grade of 40%. The final exam (Exam #3) will be a comprehensive exam and will be weighted the same as the other exams.

Attendance

Attendance to class is mandatory. If you miss class, you will get a 0 for the iRAT, tRAT and TBL for that day. If you have a valid reason for missing class, you will have to inform me at least 1 hr before class.

Course Evaluation Schedule

Term	Evaluations Open	Evaluations Closes
Spring 2016	April 13, 2016	May 4, 2016

Tentative Class Schedule

WEEK	DATE	TOPICS	READING ASSIGNMENTS (Should be done before class)
1	1/19	Introduction and Review of Plasma Membrane	Chapter 10
2	1/26	Membrane Transport of Small Molecules and the Electrical Properties of Membranes	Chapter 11
3	2/2	Intracellular Compartments and Protein Sorting 1	Chapter 12
4	2/9	Intracellular Compartments and Protein Sorting 2	Chapter 12
5	2/16	Exam #1	Chapter 10-12
6	2/23	Intracellular Membrane Traffic	Chapter 13
7	3/1	Cell Signaling 1	Chapter 15
8	3/8	Cell Signaling 2	Chapter 15
9	3/15	No class: Spring Break	
10	3/22	The Cytoskeleton	Chapter 16
11	3/29	Exam #2	Chapter 13,15-16
12	4/5	The Cell Cycle and Cell Death	Chapter 17 and 18
13	4/12	Cell Junctions and the Extracellular Matrix	Chapter 19
14	4/19	No Class – Dr. Chew out of town for a conference	
15	4/26	Group Presentations	
16	5/3	Prepare for final exam	
17	5/10	Final Exam Week: Exam #3	All chapters

UTRGV Policy Statements

STUDENTS WITH DISABILITIES:

If you have a documented disability (physical, psychological, learning, or other disability which affects your academic performance) and would like to receive academic accommodations, please inform your instructor and contact Student Accessibility Services to schedule an appointment to initiate services. It is recommended that you schedule an appointment with Student Accessibility Services before classes start. However, accommodations can be provided at any time. **Brownsville Campus:** Student Accessibility Services is located in Cortez Hall Room 129 and can be contacted by phone at (956) 882-7374 (Voice) or via email at accessibility@utrgv.edu. **Edinburg Campus:** Student Accessibility Services is located in 108 University Center and can be contacted by phone at (956) 665-7005 (Voice), (956) 665-3840 (Fax), or via email at accessibility@utrgv.edu.

MANDATORY COURSE EVALUATION PERIOD:

Students are required to complete an ONLINE evaluation of this course, accessed through your UTRGV account (<http://my.utrgv.edu>); you will be contacted through email with further instructions. Online evaluations will be available Nov. 18 – Dec. 9, 2015. Students who complete their evaluations will have priority access to their grades.

ATTENDANCE:

Students are expected to attend all scheduled classes and may be dropped from the course for excessive absences. UTRGV's attendance policy excuses students from attending class if they are participating in officially sponsored university activities, such as athletics; for observance of religious holy days; or for military service. Students should contact the instructor in advance of the excused absence and arrange to make up missed work or examinations.

SCHOLASTIC INTEGRITY:

As members of a community dedicated to Honesty, Integrity and Respect, students are reminded that those who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and expulsion from the University. Scholastic dishonesty includes but is not limited to: cheating, plagiarism, and collusion; submission for credit of any work or materials that are attributable in whole or in part to another person; taking an examination for another person; any act designed to give unfair advantage to a student; or the attempt to commit such acts. Since scholastic dishonesty harms the individual, all students and the integrity of the University, policies on scholastic dishonesty will be strictly enforced (Board of Regents Rules and Regulations and UTRGV Academic Integrity Guidelines). All scholastic dishonesty incidents will be reported to the Dean of Students.

SEXUAL HARASSMENT, DISCRIMINATION, and VIOLENCE:

In accordance with UT System regulations, your instructor is a "responsible employee" for reporting purposes under Title IX regulations and so must report any instance, occurring during a student's time in college, of sexual assault, stalking, dating violence, domestic violence, or sexual harassment about which she/he becomes aware during this course through writing, discussion, or personal disclosure. More information can be found at www.utrgv.edu/equity, including confidential resources available on campus. The faculty and staff of UTRGV actively strive to provide a learning, working, and living environment that promotes personal integrity, civility, and mutual respect in an environment free from sexual misconduct and discrimination.

COURSE DROPS:

According to UTRGV policy, students may drop any class without penalty earning a grade of DR until the official drop date. Following that date, students must be assigned a letter grade and can no longer drop the class. Students considering dropping the class should be aware of the "3-peat rule" and the "6-drop" rule so they can recognize how dropped classes may affect their academic success. The 6-drop rule refers to Texas law that dictates that undergraduate students may not drop more than six courses during their undergraduate career. Courses dropped at other Texas public higher education institutions will count toward the six-course drop limit. The 3-peat rule refers to additional fees charged to students who take the same class for the third time.