

THE UNIVERSITY OF TEXAS RIO GRANDE VALLEY

BMED 4310-02: Introduction to medical physiology

SYLLABUS – FALL 2016

INSTRUCTOR & OFFICE HOURS:

Dr. Hongxing Lu

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OFFICE HOURS:

MEETING TIMES AND LOCATION:

Th 9:00 am – 9:50 am

Brownsville Campus Biomed Research Prof Bldg # 99 1.207

TEXTBOOK AND/OR RESOURCE MATERIAL:

COURSE DESCRIPTION:

Develops student understanding of biochemical principles particularly as related to human metabolic processes in health and disease. The discipline of biochemistry developed as chemists studied the molecules of cells, tissues and body fluids, and physicians, scientists and geneticists probed the inheritance patterns and molecular basis of diseases. Tools of molecular biology now permit detailed and sophisticated diagnostic tools, molecular explanations, and treatments, of many disease processes. Homeostasis and proper functioning of the body requires a delicate balance amongst essential nutrients taken in or synthesized, appropriate metabolism in response to internal and external environment, and disposal of waste products. Two basic metabolic requirements are: synthesize everything cells need that is not supplied by the diet, and protect internal environment from toxins and changing external conditions. Dietary components are metabolized by: fuel oxidative pathways, fuel storage pathways, biosynthetic pathways, and detoxification or waste-disposal pathways

PRE-REQUISITES/ CO-REQUISITES:

Consent of advisor

COURSE LEARNING OUTCOMES:

This course aims to provide students with a basic understanding of :

1. Have improved knowledge applied to biomedicine, master the name and basic structure of important biochemical molecules and pathway
2. Understand the relationships between biochemical molecules, pathway and human diseases.
3. Read and understand scientific literature in biochemical research.
4. Link concepts learned to other disciplines within the biomedical sciences
5. Communicate, understand, and apply the information learned throughout the course

GRADING POLICIES: (PASSING GRADE FOR THIS COURSE IS C)

Exam 1	20%
Exam 2	20%
Exam 3	20%
Presentation	20%
Quiz	20%

Score Range	Grade
90-100	A
80-89	B
70-79	C
60-69	D

COURSE IMPORTANT DATES:

The UTRGV academic calendar can be found at <http://my.utrgv.edu> (Important dates for Fall 2015):

August 31	Classes Begin
September 7	Labor Day Holiday; university closed
September 16	<i>Last day to drop a class before it appears on the transcript</i> and counts toward the “6-drop” limit. Last day to receive a 100% refund for dropped classes (other policies apply when a student is withdrawing from all classes).
November 18	<i>Drop/Withdrawal Deadline; last day for students to drop the course and receive a DR grade.</i> After this date, students will be assigned a letter grade for the course that will count on the GPA.
November 26-27	Thanksgiving Holiday; university closed
December 10	Study Day; no classes
December 11-17	Final Exams

CALENDAR OF ACTIVITIES

	Date	Lecture	Activity
1	1/21	Introduction , cell	
2	1/28	cell	quiz
3	2/4	tissue	
4	2/11	tissue	
5	2/18	Exam1	
6	2/25	muscle	
7	3/03	muscle	quiz
8	3/10	Vessel	
9	3/17	Spring break	
10	3/24	Blood	quiz
11	3/31	Exam2	
12	4/07	Heart	
13	4/14	Digestive System	
14	4/21	Digestive System	quiz

15	4/28	presentation	
16	5/05	Exam3	

ATTENDANCE POLICY:

Attendance is mandatory. Any disrespect will imply a reduction of 10% of the final grade. There will be no makeup assignments given regardless of circumstance for this course.

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.