SYLLABUS for Monday Lab

Cell Biology Labs spring 2017
Labs: A-F
Associated Lecture: BIOL 3412-01

Lecture: (Section-01): Tuesdays and Thursdays 8:00 a.m. – 9:15 a.m. VACKAR COLL OF BUSINESS & ENTR 110.

Lab Sections:
Section A: 10:40 a.m. - 1:20 p.m. Friday in ESCNE 1.260 (Eduardo Martinez)
Section B: 1:30 p.m. - 4:10 p.m. Friday in ESCNE 1.260 (Eduardo Martinez)
Section C: 4:30 p.m. - 7:10 p.m. Friday in ESCNE 1.260 (Lilia Sanchez)
Section D: 7:20 p.m. - 10:00 p.m. Friday in ESCNE 1.260 (Lilia Sanchez)
Section E: 7:50 a.m. - 10:30 a.m. Friday in ESCNE 1.260 (Victor Fanniel)
Section F: 10:50 a.m. - 1:30 p.m. Monday in ESCNE 1.260 (Victor Fanniel)

Instructor: Megan Keniry, Ph.D.
e-mail: megan.keniry@utrgv.edu
Office: ESCNE 2.304
Phone: 956-665-7463
Office hours: Wednesday and Thursday 1:30-3:30 p.m. in ESCNE 2.304 and by appointment.

How to Get In Touch:

I can be reached by email: megan.keniry@utrgv.edu. Do not use non-UTRGV email accounts such as Gmail or Yahoo- as per federal law.

Office hours: Wednesday and Thursday 1:30-3:30 p.m. in SCNE 2.304 or by appointment. Everyone in the class should come to office hours at least twice this term!

“I don’t get this.” If you are thinking this, get to office hours or make an appointment! Don’t wait to get help! If you score below 75 percent on any exam, come to office hours.


Course Description: A study of cell structure and function with emphasis on bio-energetics, membranes, genes, and genetic control, cell division and its regulation, and cellular differentiation.
Prerequisites:
(Undergraduate level BIOL 1406 Minimum Grade of D or Undergraduate level BIOL 1306 Minimum Grade of D or Undergraduate level BIOL 1401 Minimum Grade of D or Undergraduate level BIOL 1487 Minimum Grade of D or Undergraduate level BIOL 114 Minimum Grade of D or Undergraduate level BIOL 1305 Minimum Grade of D or Undergraduate level BIOL 1311 Minimum Grade of D or Undergraduate level BIOL 1407 Minimum Grade of D or Undergraduate level BIOL 1407 Minimum Grade of D or Undergraduate level BIOL 1312 Minimum Grade of D or Undergraduate level BIOL 1402 Minimum Grade of D or Undergraduate level BIOL 1488 Minimum Grade of D or Undergraduate level BIOL 124 Minimum Grade of D or Undergraduate level BIOL 1306 Minimum Grade of D or Undergraduate level BIOL 1306 Minimum Grade of D or Undergraduate level BIOL 1406 Minimum Grade of D) and (Undergraduate level CHEM 2123 Minimum Grade of D or Undergraduate level CHEM 2102 Minimum Grade of D) and (Undergraduate level CHEM 2323 Minimum Grade of D or Undergraduate level CHEM 2302 Minimum Grade of D)

Course Objectives:
- Learn about cellular architecture and how it facilitates cellular processes
- Develop critical thinking skills for interpreting experimental results and designing new experiments
- Work on a group project (in lab class)
- To learn basic differences between prokaryotic and eukaryotic cells
- To learn about the most basic eukaryotic organelles (their composition and functions)
- To learn about DNA replication, transcription and translation within a cellular context
- To learn about chromosomal structure and how it facilitates eukaryotic gene regulation
- To learn about membrane composition and function
- To learn about membrane transport
- To learn about the cytoskeleton and how it interacts with the rest of the cell
- To learn about cellular signal transduction
- To learn about the cell cycle in detail
- To learn about how cells comes together to form a tissue

Course Expectations:
- Students need to come to class on time and take notes
- Students should read the book and do assigned homework questions
- Students should utilize practice exams
- Please, contact me if you need help with anything.
- Students should take an active role in learning by doing assignments and asking questions

Learning Objectives for Core Curriculum Requirements
BIOL 3412 satisfies Texas Higher Education Coordinating Board (THECB) for the core areas of Critical Thinking Skills, Communication Skills, Empirical and Quantitative Skills, Teamwork, and Personal Responsibility.
Grading policy (lecture and lab contribute 75% and 25% of overall grade respectively)

Lecture Grade (75 % of overall grade):
Exams 1-4 =80% of lecture grade
**MANDATORY** Final Exam =20% of lecture grade
= 100% of lecture grade

Lab Grade (25% of overall grade):
Weekly quizzes and poster session =60% of lab grade
Lab Midterm =20% of lab grade
Lab Final =20% of lab grade
=100% of lab grade

Grading Scale:
90 - 100 points A
80 – 89 points B
70 – 79 points C
60 – 69 points D
Below 60 points F
# Calendar of Activities

**Tentative Lab Schedule for Monday Lab:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 23</td>
<td>Cell Biological Techniques</td>
<td>Quiz 1 on Cell Bio techniques</td>
</tr>
<tr>
<td>January 30</td>
<td>Gel electrophoresis</td>
<td>Quiz 2 on gel electrophoresis</td>
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<tr>
<td>February 6</td>
<td>PCR I</td>
<td>Quiz 3 on PCR I</td>
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<tr>
<td></td>
<td></td>
<td>Sign up for poster group; will count as a question on quiz</td>
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<tr>
<td>February 13</td>
<td>PCR II</td>
<td>Quiz 4 on PCR II</td>
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<tr>
<td>February 20</td>
<td>Determining protein size</td>
<td>Quiz 5 on determining protein size</td>
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<tr>
<td>February 27</td>
<td>Midterm</td>
<td>Get help for poster.</td>
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<tr>
<td>March 6</td>
<td>Yeast Cell Biology</td>
<td>Quiz 6 on Yeast Biology</td>
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<tr>
<td>March 27</td>
<td>Western blot I</td>
<td>Quiz 7 on Western blot I</td>
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<tr>
<td>April 3</td>
<td>Western blot II</td>
<td>Quiz 8 on Western blot II</td>
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<tr>
<td>April 10</td>
<td>Mitosis/ organelles</td>
<td>Quiz 9 on mitosis/organelles</td>
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<tr>
<td>April 24</td>
<td>Poster session</td>
<td>Counts as quiz 10</td>
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<tr>
<td>May 1</td>
<td>Lab Final</td>
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## Important Dates:

**First day of lab: January 23**

The lab lesson will be posted online (Tegrity) by noon on Monday of that week. Watch the video before lab (and take notes on your printed lab handout). The quiz for lab will be based on the Tegrity lesson and handouts posted online. The lab quiz will be administered during the first 15 minutes of lab class. If you are late for lab, you do not get to take the quiz. 10 points of every lab quiz will count for your participation during lab activities (5 points for bringing the printed lab and 5 points for actively participating during lab class).

Your TA will post when their office hours are (and where they are) on blackboard.
Make-up Exams

Make-up quizzes and exams are ONLY for official university events such as a member of the band for a concert, an athlete for a contest, an approved holy day or major illness with signed Dr.’s excuse. **You need to make up any quiz or exam no later than May 3rd, 2017 at 5:00 p.m.**

**STUDENTS WITH DISABILITIES:** *Required on all syllabi. Do not modify.*

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 ability@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 ability@utrgv.edu.

**MANDATORY COURSE EVALUATION PERIOD:** *Required on all syllabi. Do not modify.*

Students are required to complete an ONLINE evaluation of this course, accessed through your UTRGV account ([http://my.utrgv.edu](http://my.utrgv.edu)); you will be contacted through email with further instructions. Students who complete their evaluations will have priority access to their grades. Online evaluations will be available: Apr 12 – May 3 for full spring semester courses.

**ATTENDANCE:** Recommended on all syllabi.

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:** Recommended on all syllabi.

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:** *Required on all syllabi. Do not modify.*
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](http://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:** Recommended on all syllabi; may be modified by the instructor as long as it is not inconsistent with UTRGV policy.

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.