Syllabus for Cell Biology Labs

Cell Biology Labs Fall 2019
Labs: A-G
Associated Lecture: BIOL 3412-01 (19051)

Lecture: (Section-01): Tuesdays and Thursdays 8:00 a.m. – 9:15 a.m. SCIENCE BUILDING 2.102.

Lab Sections:
Section A (19052): 7:50 a.m. - 10:30 a.m. Friday in ESCNE 1.260 (TA: Lili)
Section B (19053): 10:45 p.m. - 1:25 p.m. Friday in ESCNE 1.260 (TA: Lili)
Section C (19054): 1:40 p.m. - 4:20 p.m. Friday in ESCNE 1.260 (TA: Leetoria)
Section D (19055): 4:35 p.m. - 7:15 p.m. Friday in ESCNE 1.260 (TA: Leetoria)
Section E (26838): 10:55 a.m. - 1:35 a.m. Thursday in ESCNE 1.260 (TA: Carl)
Section F (26839): 1:50 p.m. - 4:30 p.m. Thursday in ESCNE 1.260 (TA: Lili)
Section G (30963): 4:45 p.m. - 7:25 p.m. Thursday in ESCNE 1.260 (TA: Leetoria)

TA emails and office hours:
Leetoria Hinojosa: leetoria.hinojosa01@utrgv.edu
Carl Litif: carl.litif01@utrgv.edu
Ileana Lozano: ileana.lozano01@utrgv.edu

Additional Faculty Contact: Megan Keniry, Ph.D.
e-mail: megan.keniry@utrgv.edu
Office: ESCNE 4.633
Phone: 956-665-7463
Office hours: Tuesdays and Thursdays 9:30 a.m.-11:30 am 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: Tuesdays and Thursdays 9:30 a.m.-11:30 am and by appointment.

“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 1405 Minimum Grade of D) and (Undergraduate level BIOL 1407 Minimum Grade of D or Undergraduate level BIOL 1307 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 1312 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 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
- 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 = 75% of lecture grade
- **MANDATORY** Final Exam = 25% of lecture grade

**Lab Grade (25% of overall grade):**

- Weekly quizzes = 75% of lab grade
- Lab Midterm = 10% of lab grade
- Lab Final = 10% of lab grade
- Poster = 5% 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 Labs:

<table>
<thead>
<tr>
<th>Dates</th>
<th>Description</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Week of August 29/30</td>
<td>Safety</td>
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<td>Week of September 5/6</td>
<td>Cell Biology Techniques</td>
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<td>Week of September 12/13</td>
<td>Gel electrophoresis</td>
<td>Quiz 1 on Safety Lab and Cell Biology Techniques</td>
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<td>Week of September 19/20</td>
<td>Determining protein size</td>
<td>Quiz 2 on gel electrophoresis</td>
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<td>Week of September 26/27</td>
<td>PCR I</td>
<td>Quiz 3 on determining protein size</td>
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<td>Week of October 3/4</td>
<td>PCR II</td>
<td>Quiz 4 PCR I</td>
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<td>Week of October 10/11</td>
<td>Midterm</td>
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<td>Week of October 17/18</td>
<td>Mitosis/Organelles</td>
<td>Quiz 5 on PCR II</td>
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<tr>
<td>Week of October 24/25</td>
<td>Western blot I</td>
<td>Quiz 6 mitosis/organelles</td>
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<tr>
<td>Week of October 31/Nov 1</td>
<td>Western blot II</td>
<td>Quiz 7 on western blot</td>
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<tr>
<td>Week of November 7/8</td>
<td>Yeast Cell Biology</td>
<td>Quiz 8 on western blot</td>
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<td>Week of November 14/15</td>
<td>Poster session</td>
<td>Quiz 9 yeast lab</td>
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<td>Week of November 21/22</td>
<td>Lab Final</td>
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<tr>
<td>Week of November 28/29</td>
<td>Thanksgiving</td>
<td>No lab; enjoy break!</td>
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### Important Dates:

**First day of lab:** August 29th or 30th depending on section.

### Calendar of Activities for UTRGV

- **August 26**  
  First day of classes
- **August 29**  
  Last day to add a course or register for Fall 2019
- **September 2**  
  Labor Day Holiday – NO classes
- **November 13**  
  Last day to drop a course; will count toward the 6-drop rule
- **November 28 - 29**  
  Thanksgiving Holiday – NO classes
- **December 5**  
  Study Day – NO classes
- **December 6 - 12**  
  Final Exams
- **December 13 - 14**  
  Commencement Exercises

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

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 within one week of when it’s missed.

UTRGV Policy Statements

The UTRGV disability accommodation, mandatory course evaluation statement and sexual misconduct statement are required on all syllabi. Additional policy statements are optional, such as those covering attendance, academic integrity, and course drop policies.

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

Students with a documented disability (physical, psychological, learning, or other disability which affects academic performance) who would like to receive academic accommodations should contact Student Accessibility Services (SAS) as soon as possible to schedule an appointment to initiate services. Accommodations can be arranged through SAS at any time, but are not retroactive. Students who experience a broken bone, severe injury, or undergo surgery during the semester are eligible for temporary services.

Pregnancy, Pregnancy-related, and Parenting Accommodations

Title IX of the Education Amendments of 1972 prohibits sex discrimination, which includes discrimination based on pregnancy, marital status, or parental status. Students seeking accommodations related to pregnancy, pregnancy-related condition, or parenting (reasonably immediate postpartum period) are encouraged to contact Student Accessibility Services for additional information and to request accommodations.

Student Accessibility Services:

Brownsville Campus: Student Accessibility Services is located in 1.107 in the Music and Learning Center building (BMSLC) and can be contacted by phone at (956) 882-7374 or via email at ability@utrgv.edu.

Edinburg Campus: Student Accessibility Services is located in 108 University Center (EUCTR) and can be contacted by phone at (956) 665-7005 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); 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 on or about:

- **Module 1**  
  October 2nd – 8th
- **Module 2**  
  November 27th – December 3rd
- **Full Fall Semester**  
  November 14th – December 4th

**ATTENDANCE:** Recommended on all syllabi; may be modified by the instructor as long as it is not inconsistent with UTRGV policy.

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 DISHONESTY:** 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 (including self-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 Student Rights and Responsibilities.

**SEXUAL MISCONDUCT and MANDATORY REPORTING:** 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 to the Office of Institutional Equity & Diversity (oie@utrgv.edu) any instance, occurring during a student’s time in college, of sexual misconduct, which includes sexual assault, stalking, dating violence, domestic violence, and 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 that is free from sexual misconduct, discrimination, and all forms of violence. If students, faculty, or staff would like confidential assistance, or have questions, they can contact OVAVP (Office for Victim Advocacy & Violence Prevention) at 665-8287, 882-8282, or OVAVP@utrgv.edu.

**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.

**STUDENT SERVICES:** Recommended on all syllabi.

Students who demonstrate financial need have a variety of options when it comes to paying for college costs, such as scholarships, grants, loans and work-study. Students should visit the Students Services Center (U Central) for additional information. U Central is located in BMAIN 1.100 (Brownsville) or ESSBL 1.145 (Edinburg) or can be reached by email ([utrgv.edu](mailto:ucentral@utrgv.edu)) or telephone: (888) 882-4026. In addition to financial aid, U Central can assist students with registration and admissions.

Students seeking academic help in their studies can use university resources in addition to an instructor’s office hours. University Resources include the Advising Center, Career Center, Counseling Center, Learning Center, and Writing Center. The centers provide services such as tutoring, writing help, critical thinking, study skills, degree planning, and student employment. Locations are:

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<tr>
<th>Center Name</th>
<th>Brownsville Campus</th>
<th>Edinburg Campus</th>
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<tbody>
<tr>
<td>Advising Center</td>
<td><a href="mailto:AcademicAdvising@utrgv.edu">AcademicAdvising@utrgv.edu</a></td>
<td>BMAIN 1.400</td>
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<tr>
<td></td>
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<td>(956) 665-7120</td>
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<tr>
<td>Career Center</td>
<td><a href="mailto:CareerCenter@utrgv.edu">CareerCenter@utrgv.edu</a></td>
<td>BCRTZ 129</td>
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<td>(956) 882-5627</td>
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<td>(956) 665-2243</td>
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<tr>
<td>Counseling Center</td>
<td><a href="mailto:Counseling@utrgv.edu">Counseling@utrgv.edu</a></td>
<td>EUCTR 109</td>
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<td>(956) 665-2574</td>
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<td><a href="mailto:WC@utrgv.edu">WC@utrgv.edu</a></td>
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