

BIO 6010 - MOLECULAR CELL BIOLOGY II
Winter 2020
Instructor: Dr. Lori Pile
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Class meets 10 to 11:15 am Tuesday and Thursday in Room 65 Manoogian Hall

Office hours: Thursdays 11:30-12:30 or by appointment

- Class Web site: <http://canvas.wayne.edu>
Lecture notes and additional assigned readings are regularly posted. Please check this site often.

3 credits (lecture)

Text: Weaver, Molecular Biology, 5th edition
Other useful texts include:
Alberts et al., Molecular Biology of the Cell
Lodish et al., Molecular Cell Biology

Additional Reading Assignments: PDFs of review and primary literature articles will be posted on Blackboard.

Objectives: Upon completion of this course, students will be able to

- 1) demonstrate an understanding of cell regulation at the molecular level. The focus of this course will be to study genetic mechanisms including: DNA synthesis and repair, and mechanisms of gene and protein expression
- 2) exhibit critical thinking by integrating material from textbooks, review articles and primary literature along with their own observations
- 3) demonstrate comprehension of primary literature related to the topics presented in the course
- 4) design experiments that apply a variety of molecular, cellular, genetic and biochemical approaches to study problems related to molecular biology
- 5) produce focused writing that illustrates understanding of fundamental questions, hypotheses, approaches, and interpretation of observed results that contains proper grammar, formatting and logical flow

Short Assignments: A number of short assignments will be given throughout the semester. The type and value of the assignments will vary. Assignments will include unannounced quizzes at the beginning of class, in class problem sets, and take-home assignments. If the assignment is a take-home assignment, it is due at the beginning of the next class. All together, the short assignments will total 50 points. No make-ups will be given for missed or late assignments.

Writing Assignment: Toward the middle of the semester, you will be given an extended writing assignment. You will critique a paper and determine a series of experiments to follow on from that paper. Details regarding this assignment will be given separately. The paper is due the final day of classes. The paper is worth 80 points.

Note on all Writing Assignments: Your written work may be submitted to Unicheck for an evaluation of your ideas and proper use and attribution of sources. As part of this process, you may be required to submit electronic as well as hard copies of your written work, or be given other instructions to follow. By taking this course, you agree that all assignments may undergo this review process and that the assignment may be included as a source document in Unicheck's restricted access database, solely for the purpose of detecting plagiarism in such documents. Any assignment not submitted according to the procedures given by the instructor may be penalized or may not be accepted at all. Because our goal is to help you learn how to not plagiarize, information on how to avoid plagiarism will be provided in class and on Blackboard.

Exam Format: The three lecture exams and the final will consist of short answer questions, essays and problem sets. **The final is comprehensive.**

Grading:	Short Assignments	50 points
	Writing Assignment	80 points
	Exam I	80 points
	Exam II	80 points
	Exam III	80 points
	Final Exam	55 points
	TOTAL	425 points

Note: there is no extra credit or extra assignments. Grades will be based solely on the items listed above.

Grading Policy: Grades will be from 0 to 100. Final grades will be calculated using a distribution curve. After each exam, the class grade distribution will be given. At that time, tentative grade scales will be announced. Anyone caught cheating on an exam or the assignments will automatically receive a failing grade for the class. Plagiarism is a form of cheating and therefore subject to the same penalty.

General Policy: 1) Make-up assignments and exams will **NOT** be given except under extremely extenuating circumstances. Missed assignments and exams are scored as a zero.

2) January 17 is the last day to withdraw from the course and retrieve your tuition.

3) January 18 to March 22, the instructor's signature is required to withdraw from the course. One of the following grades will be assigned:

WP-withdrawal with a passing grade earned to date

WF-withdrawal with a failing grade earned to date

WN-withdrawal never attended, or no graded work to date

4) March 22 is the last day to withdraw from the course.

5) If you have a documented disability that requires accommodations, you will need to register with Student Disability Services (SDS) for coordination of your academic accommodations. The Student Disability Services (SDS) office is located at 1600 David Adamany Undergraduate Library in the Student Academic Success Services department. SDS telephone number is 313-577-1851 or 313-577-3365 (TDD only). Once you have your accommodations in place, I will be glad to meet with you privately during my office hours to discuss your special needs. Student Disability Services' mission is to assist the university in creating an accessible community where students with disabilities have an equal opportunity to fully participate in their educational experience at Wayne State University.

Please be aware that a delay in getting SDS accommodation letters for the current semester may hinder the availability or facilitation of those accommodations in a timely manner. Therefore, it is in your best interest to get your accommodation letters as early in the semester as possible.

6) Conflicts regarding the grading of exams or assignments must be resolved within one week of the return date. The exam or assignment in question must be returned along with a written statement explaining the concern.

7) In the event of a University closure on the day of an exam, the exam will be given during the next regularly schedule lecture period. University closures will be publicized through:

- the University Newline (313) 577-5345*
- WSU Homepage (www.wayne.edu)*
- WSU Pipeline (www.pipeline.wayne.edu)*
- WDET-FM (Public Radio 101.9)
- by other local radio and television stations

* Note: The information on closures and class cancellations is likely to be found at these locations before it is broadcast by local radio and television stations.

8) For any and all issues not covered in this syllabus, refer to the "Student Due Process Policy".