BIOL 319

Introduction to Cell and Molecular Biology

Instructor Information:
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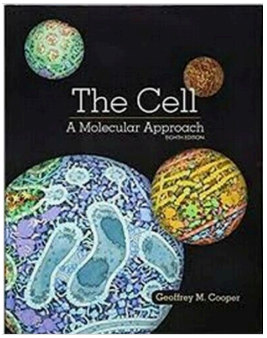
Office: EBS 3112B

Office hours:
Via Zoom videoconferencing at: https://zoom.us/ (schedule via email)

Course Text:



The Cell: A Molecular Approach, 8th edition by Geoffrey M. Cooper

Previous editions are ok if you need a hard copy. You will have full access to the ebook through the Blackboard site via a fee that you will be prompted to pay the first time you try to access the ebook.

Other requirements:
As this is an online course, regular and reliable internet service is required. Computer access is also required with Chrome, Firefox or Safari browsers. Chromebooks, tablets and phones will not be sufficient to access all aspects of this online course.

Course Description and Expectations

Introduction to molecular and cellular biology. A special emphasis is placed on nucleic acids and proteins involved in molecular control of cellular activities.

Students are expected to actively participate in online course activities and complete assignments in a timely manner. No late assignments are accepted. All material opens on Saturday and is due the following Friday evening. Students are expected to access the course Blackboard site regularly.

Course content will be delivered asynchronously, but due dates are set for online assessments such as problem sets, quizzes, writing assignments, discussions and exams.

Course Objectives

- Learn how the molecules of cells act in structure and metabolism.
- Identify the cellular and molecular mechanisms of drug action.
- Investigate proteins especially in cell structure and function.
- Examine modern biological techniques and models used to study complex nature of biological systems.
- Examine the nature of our genome.

Learning Outcomes

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

- Understand and utilize scientific vocabulary used in communicating information about cell and molecular biology.
- Understand and apply key concepts of cell and molecular biology to relevant, specific problems.
- Describe and discuss the properties and biological significance of the central dogma of biology.
- Understand and utilize information found in scientific primary literature.

University Policies:

As a WKU student enrolled in this course you have certain rights and entitlements established by federal law and described in University policies. Information regarding these policies below and others can be found at: https://www.wku.edu/syllabusinfo/

Information regarding **requesting accommodations under the Americans with Disabilities Act** can be found by clicking on the "*ADA Accommodation*" tab.

Information regarding **reporting discrimination or harassment under Title IX** of the Equal Opportunity in Education Act can be found by clicking on the "*Title IX Discrimination/Harassment*" tab.

Students are required to maintain a civil and professional conduct in class. Information regarding **academic integrity and the student code of conduct** as described in the student handbook can be found by clicking the "*Things you should know*" tab.

Cheating and plagiarism, will not be tolerated. Both are taken extremely seriously and have serious consequences. This can be found under "Things you should know" tab.

Grading and Evaluation

In an effort to help students with this difficult material, your grade will not simply be determined by exams as is common practice. There will be practice questions and other activities assigned to help you get into the chapters and learn the material. These low stakes assignments will be 30% of your total grade. These change by semester as I include up to date material. If you wish to know the total points, please refer to BB. Engagement with all material will be assessed by a weekly exam which will count 70% of your grade. Due to this, no extra credit will be offered at the end of the semester. You need to keep up with all activities as they are offered.

Total possible points vary each semester due to the number of low stakes activities that are added or subtracted each semester. A standard scale is used and grades are not rounded. **If you wish your 89 be rounded to a 90 then make sure you are earning that with the work you do. It is not my responsibility to round your grade the last week of class. It is your responsibility to earn the grade you want.**

A = 90-100%
B = 80-89%
C = 70-79%
D = 60-69%
F = < 60%

Exams:

Exams will be administered at a testing center. You will need to register with the DELO testing center or contact them to setup a remote testing center if you are located in a different location.

Exams will be timed and come from a very large pool of questions, therefore, no 2 students will ever have the same exam. Exams are on Fridays or Saturdays. Please make arrangements now for testing.

Summer Schedule:
This summer schedule is based on a 4 week schedule, which is very tight. Exams must be taken at DELO testing center or another authorized testing center on Fridays or Saturdays. If you take the exam on Fridays, you do not have anything assigned on the Saturdays listed here.

Tentative Schedule for Summer Term		
	Date	**Chapter**
Week 1	6/7/21	1
	6/8/21	2
	6/9/21	3
	6/10/21	4
	6/11/21	5/ Exam 1
	6/12/21	Alternate date Exam 1
Week 2	6/14/21	6
	6/15/21	7
	6/16/21	8
	6/17/21	9
	6/18/21	10/ Exam 2
	6/19/21	Alternate date Exam 2
Week 3	6/21/21	11
	6/22/21	12
	6/23/21	13
	6/24/21	14
	6/25/21	15/ Exam 3
	6/26/21	Alternate date Exam 3
Week 4	6/28/21	16
	6/29/21	17
	6/30/21	18
	7/1/21	19
	7/2/21	20/ Exam 4
	7/3/21	Alternate date Exam 4