

# **BIO 319**

## **SYLLABUS - INTRODUCTION TO MOLECULAR & CELL BIOLOGY (BIOL 319)**

### **FALL 2012**

**MEETINGS:** 9:35 - 10:55 AM T/R TCNW 0130

**INSTRUCTOR:** Dr. Robert Wyatt

Office: TCCW 317

E-mail: [robert.wyatt@wku.edu](mailto:robert.wyatt@wku.edu)

**OFFICE HOURS:** 9:00-9:30 AM; 11:00-11:30 AM T/R or by appointment

**COURSE DESCRIPTION:** Introduction to molecular and cellular biology. A special emphasis is placed on molecular control of cellular activities.

**TEXTBOOK:** The Cell: A Molecular Approach, Fifth Edition by Geoffrey M. Cooper and Robert E. Hausman

ISBN: 978-0-87893- 300-6

**PREREQUISITES:** BIOL 120-121; BIOL 122-123 and CHEM 120-121

**COREQUISITE:** BIOL 322

**ATTENDANCE:** Students are expected to be punctual and present at every meeting. Make-up exams are not encouraged, and shall only be given under exceptional circumstances (a valid university excuse with credible documentation), and only during Finals week. The instructor must notify the instructor within 24 hours of the missed exam.

**ACADEMIC MISCONDUCT:** Any form of dishonesty (cheating, etc.) will result in a failing grade.

**GRADES:** Four one-hour exams offering a total of 400 points will be given as indicated in the course schedule.

Exam 1 100 pts

Exam 2 100 pts

Exam 3 100 pts

Exam 4 100 pts

**TOTAL 400 pts**

The final course grade will be based upon the following scale:

A 90-100 % B 89-80% C 79-70% D 69-60% F 59% or less

**MISCELLANEOUS:** Please:

- Arrive in time and maintain a good learning environment for everybody. Respect others who want to listen and learn.
- Avoid any disturbance in the classroom. This is a large class, and students, as well as the professor, are easily distracted by people moving around, talking, or using cell phones. In order to maintain a positive learning environment for everybody, I will call out anybody who is disruptive.
- Do your own work and be prepared for class. This will improve your results immensely.
- Students shall be able to earn 20 extra points. You can get 6 pts by attending at least two departmental seminars (3 pts/seminar) on course-related topics. Potential seminars will be announced in the class and generally take place on Fridays at 2:00-3:00 PM. There will be class discussions for which you can get up to 14 pts during the semester.

**HONORS'S PROJECT:** Students who have signed up for the honor's section of the course are required to perform an honor's project. This project will be developed in consultation with instructor. Please meet the instructor within first couple of wks to finalize the project. The honor's project will be pass or fail. If a student gets a failing grade for the project, the student will not receive the honors credit for this course.

**STUDENT DISABILITY:** In compliance with university policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Office for Student Disability Services in Downing University Center, A-200. The phone number is 270 745-5004.

### **TENTATIVE COURSE TOPICS/EXAMS**

Introduction; An overview of Cells  
Cell and Macromolecules  
Protein Structure  
Enzymes

#### **EXAM 1 - Sept. 20**

Nucleic Acids  
Transcription part I  
Molecular methods

#### **EXAM 2 – Oct. 18**

Structure of Chromosomes & Nucleosomes  
Transcription part II  
Other Regulators of Gene Expression

#### **EXAM 3 – Nov. 20**

Protein Sorting & Transport  
Cell Signaling

#### **EXAM 4 – Dec. 10**