

BIOM 3500: Molecular Cell Biology

Course Outline, Fall 2022

Instructor: **Dr. Andrew Swan**

Contact: aswan@uwindSOR.ca

Office Hours: Wednesdays 11:30am to 12:30pm, and Fridays 10:00am to 11:00am in my office (Essex Hall 275-D). You may also email to ask questions or to schedule a different time to meet.

GA grader: **Paria Kahn mouei**

kahn mouei@uwindSOR.ca

Lectures

Lectures are held in-person, Mondays and Wednesdays from 10:00am to 11:20am, room **3123 Erie Hall**.

Blackboard Site

All class-related announcements will be posted on the Blackboard site. Lecture powerpoints will be posted on the Blackboard site.

Course Description

In this course we will examine, at the molecular level, the basic working of a cell. We deal with several aspects of eukaryotic cell biology including DNA replication, DNA repair, control of gene expression, cell growth, cell division, and apoptosis. In addition to exploring the current state of the field, we will highlight some of the critical experiments in diverse areas of molecular biology, genetics, biochemistry and cell imaging that have contributed to our current understanding.

Course Objectives

1. Acquire a general understanding of key concepts in molecular and cell biology, and a deeper understanding of a select number of topics.
2. Develop an appreciation of the scientific basis for our current understanding of cell biology. This includes learning the techniques and developing an understanding of how experiments are designed and interpreted.

Textbook

The textbook for this course is Molecular Biology of the Cell, Alberts et al, 6th edition. There is a 5th edition of this textbook that is very similar and also acceptable. The textbook is recommended but not required. In addition to the textbook, material will be taken from original papers and review articles. Students will only be responsible for material that is covered in class.

Outline Of Molecular And Cell Biology

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