Molecular Biology BIOL 312 Lab Online

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Office Hours: By Appt. (see details below)

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Synchronous (Live) Meeting Times:

Thursdays @ 2pm via Zoom Platform

General Course Overview

Welcome to Molecular Biology Laboratory Online!

In this online course we will work together to explore modern bioinformatic tools also discuss applications of these concepts, including career options. All material will be delivered online through OAKS. This includes occasional synchronous meetings via Zoom, the rest of the lectures will be delivered asynchronously.

Prerequisites/Co-requisites: Co-enrollment or completion of Genetics (BIOL 305) and co-enrollment or completion of Molecular Biology (BIOL 312).

Required Materials

Course Materials

Course materials, including the syllabus, video lectures, study guides, worksheets, discussion boards and accompanying papers, will be provided via OAKS.

Download MS Office for FREE here:
https://blogs.cofc.edu/sits/shopping-tips/free-office-365/

Learning Objectives & Course Expectations

Learning Objectives

The goal of this course is to instill students with the knowledge and confidence to discuss/explore fundamental elements of molecular biology research:
- An in depth view of the gene- sequence analysis methods
- Molecular tools to depict evolutionary relationships among genes and organisms.
- In silico demonstrations of genotype to phenotype
- Splice variants- their production, influence on translation and protein structure.

Assignments

All assignments will be submitted through OAKS dropbox. This will serve as our joint record of timestamped submissions. No other submission format will be accepted. Feedback will be provided for all submitted assignments.

Keep up with your Grades

All grades will be loaded into the OAKS grade book. The grading scheme for this class is described below. There should be no surprises about what grades are needed to acheive your desired letter grade.

Check OAKS prior to lab

Review the weekly postings on OAKS prior to lab. This will prepare you for the upcoming material and inform you of any pending assignments.

Attendance

Attendance will be assessed by monitoring your log-in history in OAKS as well as your attendance and participation at our LIVE meetings.

Communication and Participation

The online format may seem less interactive, but not if you take advantage of discussion boards, 'office' hours and live meetings to clear up any confusion and contribute your thoughts. I am here to help you - its my favorite part of teaching :).

GRADING

Weekly Lab Assignments	85%	93 +	A
Final Exam	15%	90-92	A-
		87-89	B+
		83-86	B
	100%	80-82	B-
		77-79	C+
		73-76	C
		70-72	C-
		67-69	D+
		63-66	D
		60-62	D-
		Below 60	F

Let's Get Together! Chose your preferred method and email: mccoyja@cofc.edu

- LIVE via Zoom (email me to set up)
- Email me your questions.
- Post questions to OAKS based discussion board

Attendance Policy

Your attendance at live meetings is required. If an emergency situation prevents your attendance, please reach out as soon as you can to receive instructions regarding missed work.: mccoyja@cofc.edu

Notes about your grade

College is designed to be challenging and grades are earned not given.

A grade of 'C' is earned by students who complete average college work. Grades in the 'B' range signify work that stands above the average. Grades in the 'A' range are earned by students who do exceptional work and go above and beyond.

If you are having difficulty with the class, please ask me for help. I want you to succeed, but I won't be able to help if you ask for assistance the night before an assignment is due. Also, waiting until the end of the semester to express concern with your grade will not allow me to assist you.

I also use the OAKS gradebook, but will not update it immediately after every assignment is returned. So you should keep track of the points you earn during the semester so you always know how you're progressing.

Percentage of classroom hours attended over the semest

Honor Code and Academic Integrity

You can read all about the Honor Code and your expectations here: http://deanofstudents.cofc.edu/honor-system/studenthandbook/5-the-honor-code.php

"Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when suspected, are investigated. Each incident will be examined to determine the degree of deception involved. Incidents where the instructor determines the student's actions are related more to misunderstanding and confusion will be handled by the instructor. The instructor designs an intervention or assigns a grade reduction to help prevent the student from repeating the error. The response is recorded on a form and signed both by the instructor and the student. It is forwarded to the Office of the Dean of Students and placed in the student's file. Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XXF in the course, indicating failure of the course due to academic dishonesty. This status indicator will appear on the student's transcript for two years after which the student may petition for the XX to be expunged. The F is permanent.

Disability/Access Needs

Any student eligible for and needing accommodations because of a disability is requested to speak with the professor during the first two weeks of class or as soon as the student has been approved for services so that reasonable accommodations can be arranged.