Spring 2020
Meeting Time/Place
Marla H. Ritholtz

Course Overview
This course will provide students with a broad-based review of molecular biology. The first half of the semester will focus on molecular structure and the second half on molecular function. Students will learn about the role of nucleic acids in the molecular biology of the cell and the role of proteins in the cell. Students will be assigned a project in molecular biology that will require them to work independently. Students will be assessed on their participation in class, their writing assignments, and their participation in the project. This course will be offered in a lecture format with accompanying laboratory exercises. The laboratory exercises will be designed to enhance the students’ understanding of the concepts presented in the lectures. The laboratory exercises will be conducted in a laboratory setting and will include the use of laboratory equipment and the use of laboratory techniques. The laboratory exercises will be evaluated on the basis of the students’ participation and their ability to complete the exercises correctly.

Learning Objectives & Course Expectations
Learning Objectives: Understand the structure and function of DNA, RNA, and Proteins.

Course Materials
All course materials, including the syllabus, lecture videos, study guides, handouts, and accompanying papers, are on OAKS.

Preparation for Class
You are expected to complete all the material prior to class and bring any questions.

Writing Project
You are expected to work on the Wiki-writing project as a collaborative writing project aimed at producing a high-quality summary of a molecular biology concept that is suitable for publication in an open-source encyclopedia.

Electronics
Laptops and tablets may not be used for class-related exercises only.

Participation
Active participation via discussion and questions will enhance the experience for all.

Office Hours (by appointment)
Mon 10-11am

Course Materials
Molecular Biology of the Gene, 7th Edition
By Watson, Baker, Bell, Zimm, Levine, Lodish (see OAKS for link)

Text Book
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