BSCI171: Principles of Molecular & Cellular Biology Laboratory

Course Description:
The laboratory component of BSCI170, Principles of Molecular and Cellular Biology, is designed to complement the lecture materials and engage you in hands-on experiences with fundamental tools of experimental science. This course will focus on molecular and cell biological processes.

Prerequisites:
Must have math eligibility of MATH120 or higher
Prerequisite or Co-requisite: BSCI170

Course Credit: 1

Recommended: For Science majors.

Textbook:
Principles of Molecular and Cellular Biology Lab Manual by D. Kirschel, ed. NOTE: Students must have a new and current Lab Manual.

Major Topics Covered in BSCI171 Include the Following:
1. Solutions and Measurements
2. Microscopy and Cell Structure
3. Separation of Macromolecules
4. Introduction to the Scientific Method and Scientific Communication
5. Investigation 1: Design: Spectrophotometric Assay
6. Investigation 1: Data Generation: Spectrophotometric Assay
7. Investigation 1: An Alternative Essay
8. Investigation 2: Research Design
9. Investigation 2: Data Generation
10. Investigation 2: Data Analysis and Interpretation
11. Investigation 2: Poster Presentation