Molecular Biology Lab
BIOL 312-L

Course Overview
The course will provide students with a thorough review of molecular biology techniques and concepts utilized in a scientific laboratory.

Learning Objectives
BioTELL will provide a deeper understanding of:
- Safety in the Molecular Biology Lab
- PCR: mechanism and analysis
- bioinformatic tools
- molecular biology in the news
- molecular biology of aging
- bioinformatic tools
- scientific writing and presentation of results

Course Materials
- Lab notebooks
- Study guides, handouts, protocols and lab reports
- Computer and electronic devices
- Lab coats
- PPE (personal protective equipment)

Preparation for Class
Students are expected to read the assigned readings before the class meets.

Weekly Goals
- Lab Reports
- PC Lab Assignments
- Notebook Completion

Grading
- Lab Reports: 50%
- PC Lab Assignments: 20%
- Notebook Completion: 30%

LABORATORY HOURS
- Lab Notebooks
- Lab and Computer Equipment
- Lab Coats
- PPE (Personal Protective Equipment)

Course Expectations
- Lab notebooks should contain one entry for each lab period. All entries should include dates, background topics covered, names of protocols performed, and results summary. Lab notebooks will be evaluated at the end of the semester.
- Lab coats must be worn at all times when working in the laboratory.
- Lab coats should be worn at all times during lab sessions.

Attendance Policy
Students are expected to attend all laboratory meetings in order to fully understand the material covered. Absences count in determining the basis for a grade.