

## BIOL 2601L - General Biology I: Molecules and Cells Laboratory

Fall 2026 Syllabus, Section 03, CRN 40014,

Credit hours: 1

### Public Instructor Information

Instructor Title:

Instructor Professional Qualifications:

Instructor Office Location:

Instructor Office Phone:

### Course Description

2601L. General Biology I: Molecules and Cells Laboratory. The chemical and physical foundations of life, including scientific communication, cell biology, metabolism, basic molecular biology and diversity. Two hours of lab each week. Coreq.: BIOL 2601. Prereq. or Coreq.: CHEM 1515. 1 s.h.

### Course Readings

| Group | Title                                | Author                  | ISBN          |
|-------|--------------------------------------|-------------------------|---------------|
|       | General Biology 2601-2602 Lab Manual | Asch, Diggins and Renee | 9781792444432 |

<https://he.kendallhunt.com/Asch>

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

### Schedule of Topics and Assignments

| Day | Date  | Reading(s)                                                                                                                                           | Proposed Topic | Due/To Prepare for Class |
|-----|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|
| Tue | 8/25  | No lab                                                                                                                                               |                |                          |
| Tue | 9/1   | Module 1 – Scientific Communication<br>Introduction Syllabus Introduction                                                                            |                |                          |
| Tue | 9/8   | Module 1 – Scientific Communication The<br>Scientific Method Introduction to Keeping<br>a Laboratory Notebook Reaction Time<br>Experiment            |                |                          |
| Tue | 9/15  | Writing Laboratory Reports Reaction<br>time cont. Statistical Analyses Creating<br>Figures, Graphs, and Tables Reaction Time<br>Experiment – Part II |                |                          |
| Tue | 9/22  | Module 2 – Cell Biology Osmosis I<br>Laboratory Notebook Due for Module 1                                                                            |                |                          |
| Tue | 9/29  | Module 2 – Cell Biology Osmosis II                                                                                                                   |                |                          |
| Tue | 10/6  | Module 2 – Cell Biology Fermentation I<br>Laboratory Report on Osmosis Due                                                                           |                |                          |
| Tue | 10/13 | Module 2 – Cell Biology Fermentation II                                                                                                              |                |                          |
| Tue | 10/20 | Laboratory Examination 1 Laboratory<br>Notebook Due for Module 2                                                                                     |                |                          |
| Tue | 10/27 | Module 3 – Evolution and Diversity Gel<br>Electrophoresis                                                                                            |                |                          |
| Tue | 11/3  | Module 3 – Evolution and Diversity<br>Population Genetics: Hardy-Weinberg<br>Equilibrium                                                             |                |                          |



|     |       |                                                                                                |
|-----|-------|------------------------------------------------------------------------------------------------|
| Tue | 11/10 | Module 3 – Evolution and Diversity Bacteria<br>Laboratory Report on Gel Electrophoresis<br>Due |
| Tue | 11/17 | Module 3 – Evolution and Diversity Data<br>collection from Bacteria                            |
| Tue | 11/24 | Review for Lab exam 2                                                                          |
| Tue | 12/1  | Laboratory Examination 2 Laboratory<br>Notebook Due for Module 3                               |
| Tue | 12/8  | Finals Week, No Lab                                                                            |

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.