

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

Fall 2026 Syllabus, Section 04, CRN 44196,

Credit hours: 1

Instructor

Molly Coffee

Email: macoffee@ysu.edu

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

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	No lab		
8/31	Module 1 – Scientific Communication Introduction Syllabus Introduction		
9/7	Module 1 – Scientific Communication The Scientific Method Introduction to Keeping a Laboratory Notebook Reaction Time Experiment		
9/14	Writing Laboratory Reports Reaction time cont. Statistical Analyses Creating Figures, Graphs, and Tables Reaction Time Experiment – Part II		
9/21	Module 2 – Cell Biology Osmosis I Laboratory Notebook Due for Module 1		
9/28	Module 2 – Cell Biology Osmosis II		
10/5	Module 2 – Cell Biology Fermentation I Laboratory Report on Osmosis Due		
10/12	Module 2 – Cell Biology Fermentation II		
10/19	Laboratory Examination 1 Laboratory Notebook Due for Module 2		



10/26	Module 3 – Evolution and Diversity Gel Electrophoresis
11/2	Module 3 – Evolution and Diversity Population Genetics: Hardy-Weinberg Equilibrium
11/9	Module 3 – Evolution and Diversity Bacteria Laboratory Report on Gel Electrophoresis Due
11/16	Module 3 – Evolution and Diversity Data collection from Bacteria
11/23	Review for Lab exam 2
11/30	Laboratory Examination 2 Laboratory Notebook Due for Module 3
12/7	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.