

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

Summer 2026 Syllabus, Section 01, CRN 30004,

Credit hours: 1

Instructor

Xiangjia Jack Min

Professional Qualifications:

Ph. D., Plant Science, University of Hawaii

Master's, Software Systems, University of British Columbia

Master's, Plant Science, China Agricultural University

Bachelor's, Plant Science, Qingdao Agricultural University

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Communication Expectations:

Typically respond to email within 24 hours (except weekends).

How to Refer to me:

Dr. Min

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
Required	Biology 2601 Lab Manuel	Asch et al.	

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

BIOL2601L Schedule

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Mon	5/11	Introduction	Literature search, Notebook, and overview of the course	
Wed	5/13	Ch 1	Module 1: Scientific communications: Sci. Method; Reaction time	
Mon	5/18	Ch 1	Lab Report Writing; Statistical Analysis; need to bring a personal computer	
Wed	5/20	Ch 2	Module 2: Cell Biology - Osmosis Lab	Lab notebook due for Module 1: Reaction time lab
Mon	5/25	Holiday		
Wed	5/27	Ch 3	Module 2: Cell Biololgy - Fermentation	Lab report on Osmosis lab
Mon	6/1		Lab exam 1	Lab notebook for Module 2

Wed	6/3	Ch 4	Module 3: Evo. Diversity - Gene Electrophoresis	
Mon	6/8	Online reading: NCBI	Module 3: NCBI BLAST (person computer is needed)	
Wed	6/10	Online reading: details on Blackboard	Module 3: Phylogenetic tree construction	Lab report on Gel Electrophoresis
Mon	6/15	Ch 6	Bacteria	
Wed	6/17	Ch 5	Data collection for Bacteria; Hardy-Weinberg Equilibrium Lab	Lab report on BLAST and Phylogeny
Mon	6/22		Lab Exam 2	Lab notebook due for Bacteria 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.