BIOL 1505 - Biology and the Modern World

Fall 2026 Syllabus, Section 01, CRN 42024,

Credit hours: 3

Instructor

Xiangjia Min

Professional Qualifications:
Ph. D., Plant Science, University of Hawaii
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Communication Expectations:
Typically respond to email within 24 hours.

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Course Description

1505. Biology and the Modern World. Biology applied to critical issues of today's society. Focus on the scientific method as relevant to modern biology issues. Not applicable to the Biology major. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Campbell Essential Biology (7e)		

E-book. Authors: Simon et al.

Course website: All course materials will be posted on BLACKBOARD

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

Course Schedule

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Chapter 1 and 2	Introduction about Life Science; Essential Chemistry	
8/31	Chapter 3	Molecules of Life	
9/7	Chapter 4	Cell Structure	
9/14	Chapter 5	Energy and Basic Biochemistry	Homework 1 due
9/21	Test 1 (Chapter 1 - 4); Chapter 6	Cellular Respiration	
9/28	Chapter 7	Photosyntesis	
10/5	Chapter 8	Cellular Reproduction: Mitosis and Meiosis	

10/12	Chapter 9	Pattern of Inheritance	Homework 2 due
10/19	Test 2 (Chapter 5 - 8); Chaper 10	Structure and Funciton of DNA	
10/26	Chapter 11	Gene Regulation	
11/2	Chapter 12	DNA Technology	
11/9	Chapter 13	How Population Evolve	
11/16	Test 3 (9 - 12).		
11/23	Chapter 14	How Biological Diversity Evolved	
11/30	Review		
12/7	Final exam week: final test (11 -14) on 12/7 at 11:00 am		

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.