

BIOL 1560 - Microbiology for the Health Professions

Summer 2026 Syllabus, Section 01, CRN 30002,

Credit hours: 2

Instructor

Li Sui

Professional Qualifications:

M.S., Biological Science, The University of Hawaii at Manoa, 1995

Bachelor's, Plant Genetics, China Agricultural University, 1991

Graduate Certificate, Mathematics, Youngstown State University, 2020

Lecturer

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Preferred Contact Method: Email. Please include "BIOL1560" in the subject line. Do not email through Blackboard.

Communication Expectations:

The instructor will answer emails as soon as possible, generally within 24 hours of receipt. Emails sent during evenings, weekends, semester breaks, or when the University is closed may not receive a response until normal business hours resume.

How to Refer to me:

Ms. Sui or Professor Sui

Course Description

1560. Microbiology for the Health Professions. Characteristics, epidemiology, and pathology of viruses, bacteria, and protozoa of medical significance. Other topics dealing with the control of microorganisms and food microbiology will be covered. Not applicable to a biology major. Two hours of lecture. Must be taken concurrent with BIOL 1560L or substitute. 2 s.h.

Course Readings

Group	Title	Author	ISBN
Optional	Microbiology: A Systems Approach, 7th edition.	Marjorie Kelly Cowan and Heidi Smith	ISBN10: 1265085528.

This course is part of an inclusive access model called First Day. You can easily access the textbook for this course at a discounted price, and benefit from single sign-on access with no codes required in Blackboard. Youngstown State University will bill you at the discounted price as course charge for this book.

You can choose to Opt-Out on the first day of class, but you will be responsible for purchasing your course materials at the full retail price and access to your materials may be suspended.

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

Tentative Course Schedule (subject to change)

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Tue	6/30	Syllabus	Introduction	
Thu	7/2	Chapter 1 Chapter 2	Main themes of microbiology The chemistry of biology	

Tue	7/7	Chapter 2 Chapter 4	The chemistry of biology Bacterial and Archaea
Thu	7/9	Chapter 5 Chapter 7	Eukaryotes Viruses and prion
Tue	7/14	Chapters 1, 2, 4 & 5	Exam 1
Thu	7/16	Chapter 6 Chapter 9	Microbial Genetics Microbial Nutrition and growth
Tue	7/21	Chapter 10	Metabolism
Thu	7/23	Chapter 11	Control of microbes
Tue	7/28	Chapters 6, 7, 9 & 10	Exam 2
Thu	7/30	Chapter 12 Chapter 19	Chemotherapy Infectious diseases: skin and eyes
Tue	8/4	Chapter 20 Chapter 21	Nervous system diseases Cardiovascular system diseases
Thu	8/6	Chapter 22 Chapter 23	Respiratory system diseases Gastrointestinal tract diseases
Tue	8/11	Chapter 24 Chapter 25	Genitourinary system diseases Microorganisms and food
Thu	8/13	Chapters 11, 12, 19-25	Exam 3

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.