

BIOL 1560 - Microbiology for the Health Professions

Fall 2026 Syllabus, Section 02, CRN 40011,

Credit hours: 2

Instructor

Li Sui

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Public Instructor Information

Instructor Title: Lecturer

Instructor 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

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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
Required	Microbiology: A Systems Approach	Marjorie Kelly Cowan and Heidi Smith	978-1-266-91098-2

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 (YSU) will bill you at the discounted price as a course charge for this book.

It is **not** recommended that you opt-out, as this text is required to complete the course. 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 last day to opt-out is 9/6/26.

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

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Mon	8/24	Syllabus	Introduction	
Wed	8/26	Chapter 1	Main themes of microbiology	
Mon	8/31	Chapter 2	The chemistry of biology	
Wed	9/2	Chapter 2_	The chemistry of biology_continued	
Mon	9/7	No Class		
Wed	9/9	Chapter 4	Bacteria and Archaea	
Mon	9/14	Chapter 5	Eukaryotic cells and Microorganisms	
Wed	9/16	Chapter 7	Viruses & Prions	
Mon	9/21	Chapters 1, 2, 4 & 5	Exam 1	
Wed	9/23	Chapter 6	Microrobial Genetics	

Mon	9/28	Chapter 9	Microbial Nutrition and Growth
Wed	9/30	Chapter 10	Microbial Metabolism
Mon	10/5	Chapter 10	Microbial Metabolism_continued
Wed	10/7	Chapter 11	Physical and Chemical Control of microbes
Mon	10/12	Chapter 11	Physical and Chemical Control of microbes - continued
Wed	10/14	Chapters 6, 7, 9 and 10	Exam 2
Mon	10/19	Chapter 12	Chemotherapy
Wed	10/21	Chapters 13 & 14	Microbe-Human Interactions
Mon	10/26	Chapter 15	Host Defenses I
Wed	10/28	Chapter 15	Host Defenses I- continued
Mon	11/2	Chapter 16	Host Defenses II
Wed	11/4	Chapter 16	Host Defenses II- continued
Mon	11/9	Chapters 11-15	Exam 3
Wed	11/11	No Class	
Mon	11/16	Chapter 19 & 20	Infectious diseases: skin and eyes & Nervous system diseases
Wed	11/18	Chapter 21	Cardiovascular system diseases
Mon	11/23	Chapters 22	Respiratory system diseases
Wed	11/25	No Class	
Mon	11/30	Chapter 23	Gastrointestinal tract diseases
Wed	12/2	Chapter 24 & Food microbiology	Genitourinary system diseases
Mon	12/7	Chapters 16, 19, 20, 21, 22, 23 and 24	Exam 4 at 5PM

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.