

BIOL 1560 - Microbiology for the Health Professions

Fall 2026 Syllabus, Section 01, CRN 40010,

Credit hours: 2

Instructor

Jonathan Caguiat

Professional Qualifications:

Postdoctoral, Microbiology, The University of Georgia

Ph. D., Microbiology, The Michigan State University

Bachelor's, Biology – Cell & Molecular Biology, The University of Michigan

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Public Instructor Information

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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	None	Introduction	
Wed	8/26	Chapter 1	Main themes of microbiology	6/26/26
Mon	8/31	Chapter 2	The chemistry of biology	8/31/26
Wed	9/2	Chapter 2	The chemistry of biology	8/31/26
Mon	9/7	No Class		
Wed	9/9	Chapter 4	Bacteria and Archaea	9/9/26
Mon	9/14	Chapter 5	Eukaryotes	9/4/26
Wed	9/16	Chapter 7	Viruses	9/16/26
Mon	9/21	Chapters 1, 2, 4 and 5	Exam 1	
Wed	9/23	Chapter 9	Nutrition, ecology, and growth	9/23/26
Mon	9/28	Chapter 10	Metabolism	9/28/26
Wed	9/30	Chapter 10	Metabolism - continued	9/30/26
Mon	10/5	Chapter 6	Genetics	10/5/26
Wed	10/7	Chapter 11	Control of microbes	10/7/26
Mon	10/12	Chapter 11	Control of microbes - continued	10/12/26
Wed	10/14	Chapters 6, 7, 9 and 10	Exam 2	
Mon	10/19	Chapter 12	Chemotherapy	10/19/26
Wed	10/21	Chapters 13 & 14	Microbe-Human Interactions	10/21/26
Mon	10/26	Chapter 15	Non-specific host defenses	10/26/26
Wed	10/28	Chapter 15	Non-specific host defenses - continued	10/26/26
Mon	11/2	Chapter 16	Non-specific host defenses	11/2/26
Wed	11/4	Chapter 16	Non-specific host defenses - continued	11/2/26
Mon	11/9	Chapters 11-15	Exam 3	11/9/26
Wed	11/11	No Class		
Mon	11/16	Chapter 19	Infectious diseases: skin and eyes	11/16/26
Wed	11/18	Chapter 20	Nervous system diseases	11/18/26
Mon	11/23	Chapters 21 and 22	Cardiovascular system diseases & Respiratory system diseases	11/23/26
Wed	11/25	No Class		
Mon	11/30	Chapter 23	Gastrointestinal tract diseases	11/30/26
Wed	12/2	Chapter 24	Genitourinary system diseases	12/2/26
Mon	12/7	Chapters 16, 19, 20, 21, 22, 23 and 24	Exam 4 Please Note: Exam 4 begins at 1 PM	12/7/26

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.