

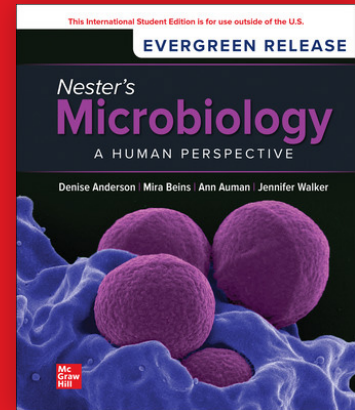


# Nester's Microbiology: A Human Perspective

Denise Anderson | Mira Beins | Ann Auman | Jennifer R. Walker

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## Overview

Perfect for the non-major/allied health student (and also appropriate for mixed majors courses), this text provides a rock solid foundation in microbiology. It has a concise and readable style, covers the most current concepts, and gives students the knowledge and mastery necessary to understand advances of the future. By carefully and clearly explaining the fundamental concepts, using a body systems approach in the coverage of disease, and offering vivid and appealing instructional art, *Microbiology: A Human Perspective* draws students back to their book again and again!

## What You Need to Know

### Focus on Understanding for Students

By using student-friendly illustrations that focus on the "big picture" Step-by-step figures direct the student using numbered icons, often with corresponding icons in the text. Each disease chapter includes a stunning figure that introduces the students to the anatomy of the body system.

### Micro Assessments

At the end of each section summarizes the concepts and includes review questions, usually featuring one that stimulates critical thinking.

### Depth of Topic Coverage

Low      High

### Writing Style

Readability, real-life examples, and analogies

### Course Level

Non-Majors/Mixed Majors

### Duration of Course

1 Semester

## Table of Contents

- 1: Humans and the Microbial World
- 2: The Molecules of Life
- 3: Cells and Methods to Observe Them
- 4: Dynamics of Microbial Growth
- 5: Control of Microbial Growth
- 6: Microbial Metabolism: Fueling Cell Growth
- 7: The Blueprint of Life, from DNA to Protein
- 8: Bacterial Genetics
- 9: Biotechnology
- 10: Identifying and Classifying Microorganisms
- 11: The Diversity of Bacteria and Archaea
- 12: The Eukaryotic Members of the Microbial World
- 13: Viruses, Viroids and Prions
- 14: The Innate Immune Response
- 15: The Adaptive Immune Response
- 16: Host-Microbe Interactions
- 17: Applications of Immune Responses
- 18: Immunological Disorders
- 19: Epidemiology
- 20: Antimicrobial Medications
- 21: Respiratory System Infections
- 22: Skin Infections
- 23: Wound Infections
- 24: Digestive System Infections
- 25: Blood and Lymphatic Infections
- 26: Nervous System Infections
- 27: Genitourinary Tract Infections
- 28: Microbial Ecology
- 29: Environmental Microbiology: Treatment of Water, Wastes, and Polluted Habitats
- 30: Food Microbiology



## This Title has Gone Evergreen

This title is transitioning to an evergreen delivery model. This means you will have the most relevant and up-to-date content, tools, and accessibility delivered directly to your existing McGraw Hill Connect® course, all without switching editions or building a new course from scratch. If you use the McGraw Hill eBook, your content will be updated automatically. Please talk to your representative about your options if you require a print component.

A complete list of Release Notes for this title is available within your Connect course at [connect.mheducation.com](https://connect.mheducation.com)

## Big Changes in this Release

- ✓ Updated disease statistics, vaccine recommendations, treatments, and terminology
- ✓ Increased the focus on worldwide effects of infectious diseases
- ✓ Aligned the descriptions of diseases that have similar symptoms or epidemiology so that comparisons can be made more easily
- ✓ Emphasized the cytokine release and the inflammatory response can lead to signs and symptoms of certain diseases.
- ✓ Connect updates: 18 new Biochemical Test VL adaptive pre-lab/post lab assessment banks, New Microbiome Relevancy Module, New 50 HESI (Health Education System Inc.) bank of questions found in the coursewide bank, 20+ New and updated Animations with assessment found in the eBook and Question Bank with assessment content.