Overview

Clinical Microbiology introduces general concepts, methods, and applications of microbiology from a health sciences perspective. The course is designed to provide healthcare professionals with a basic understanding of how various diseases are transmitted and controlled. Students will examine the structure and function of microorganisms, including the roles that they play in causing major diseases. The course also explores immunological, pathological and epidemiological factors associated with disease. To assist students in developing an applied, patient-focused understanding of microbiology, this course is complemented by several lab experiments which allow students to practice aseptic techniques, grow bacteria and fungi, identify characteristics of bacteria and yeast based on biochemical and environmental tests, determine antibiotic susceptibility, discover the microorganisms growing on objects and surfaces, and determine the Gram characteristic of bacteria. This course has no pre-requisites.

Competencies

- **Types of Microorganisms**
  The graduate describes structures and characteristics of microorganisms.

- **Disease Transmission and Progression**
  The graduate explains disease transmission and progression and the disease state.

- **Host Defenses**
  The graduate analyzes the function of the immune system.

- **Antimicrobials**
  The graduate evaluates antimicrobial therapy and resistance mechanisms.

- **Control of Microbial Growth**
  The graduate evaluates methods of microbial control in preventing the spread of infection.

- **Infectious Diseases**
  The graduate explains causes, signs, symptoms, prevention, and treatment of major infectious diseases.

- **Microbiological Techniques**
  The graduate applies techniques and procedures to propagate and characterize microorganisms.

Learning

**Getting Started**

Welcome to Clinical Microbiology! In this course, you will learn about the microbes—both constructive and destructive—that are among the smallest living entities on earth. Specifically, you will examine how they live, reproduce, carry diseases, and develop resistance to antibiotics. You will also explore the immune response to pathogens and methods used to prevent disease.

The primary learning resource is the Wiley Engage, which contains readings, videos, and knowledge checks. At the end of each chapter, you will find a quiz you can use to assess whether you have mastered the material. You will also use the Microbiology LabPaq from Hands-On Labs to complete your performance assessment requirements.

The Course Mentors recommend that you follow these steps:

1. Download the instructions to order LabPaq. (See Course Information.)
2. Download the pacing guide. (See Course Information)
3. Read each module and complete the activities.
4. Complete the performance assessment tasks as specified in the pacing guide.

Competency will be demonstrated by the successful completion of a series of performance assessments tasks and one objective assessment. Successful students report that working with a course mentor is the key to their success. You should expect to work with course mentors for the duration of your coursework, and you are encouraged to contact them as soon as you begin. Course mentors are fully committed to your success!

**Assessments**

**Preassessment, Clinical Microbiology**

Status: Not Attempted

- # of Items: 65
- Time Allocated: 120 minutes

Triage assessment for $coursename$ credit.

Takes you to the preassessment testing page for the $coursename$ course.
A score of Competent or Exemplary is required to pass all assessments. Passing a preassessment does not guarantee you will pass the high-stakes assessment.

On objective assessments, you will be charged a retake fee for the third attempt and every attempt thereafter. For more information, click here.

Course Information
- Clinical Microbiology Lab Package Ordering Instructions
- The Writing Center
- Pacing Guide
- Accessibility Policy