

Microbiology for Nursing

Microbiology for the Health Sciences, provides a survey of the microorganisms, their environments, and their interactions with multicellular organisms particularly man. The course concentrates on the microorganisms which are pathogenic to man, the diseases they cause, treatments for the diseases, and the prevention for those diseases.

Course Content:

Introduction to micro-organisms
Cytology and Morphology of Bacteria
Bacteria genetics
The Principles of Antibiotic Therapy
Laboratory Diagnosis
Host–Pathogen Interactions
Pathogenic bacteria:
 Gram Positive Cocci
 Gram Positive bacilli
 Spore forming bacteria
 Enterobacteria
 Gram Negative bacteria
 Mycobacteria
Introduction to Virology
Local Vs systemic viral infection
Viruses as Human Pathogens-DNA & RNA viruses:

Recommended literature:

Kayser, Bienz, Eckert, & Zinkernagel, Medical Microbiology (2005)

Murray, P.R. (2015). *Medical microbiology*. (8th ed.).

Burton: Microbiology for the Health Sciences' 8th ed. 2010 Lippincott.

Ebook: Medical microbiology, Samuel Baron:

<http://www.ncbi.nlm.nih.gov/books/NBK7627/>