

## Microbiology for Nursing (1004 22)

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  
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:

Brooks GF et al., Medical Microbiology (2013)

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

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