COURSE DETAIL

PRINCIPLES OF MICROBIOLOGY & IMMUNOLOGY
Country Australia
Host Institution University of Melbourne
Program(s) University of Melbourne
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 110
UCEAP Course Suffix
UCEAP Official Title PRINCIPLES OF MICROBIOLOGY & IMMUNOLOGY
UCEAP Transcript Title MICROBIO&IMMUNOLOGY
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course examines the diverse world of microbes and discusses the roles they play not only in causing infectious disease but also in both creating and maintaining life as we know it. Various types of microbes and their basic life processes are described, with the focus mainly on bacteria and viruses. Cell biology principles and roles of organelles in protein trafficking will be discussed. Bacterial genetics and metabolism are explored, with the emphasis on how these areas determine observed behaviors and activities. The components of the immune system are outlined and their interactions and functions described. A central part of this course is outlining some of the strategies used by microbes to cause disease, and the counter strategies employed by the immune system to prevent disease. Other ways of controlling microbes, including antibiotics and vaccines are also discussed. The key roles played by microbes and the immune system in medical and biotechnological research is described.

Language(s) of Instruction
English

Host Institution Course Number
MIIM20001

Host Institution Course Title
PRINCIPLES OF MICROBIOLOGY & IMMUNOLOGY

Host Institution Course Details
https://handbook.unimelb.edu.au/2024/subjects/miim20001

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

2024-2025

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