

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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