

COURSE DETAIL

MEDICAL MICROBIOLOGY AND APPLIED IMMUNOLOGY

Country

Hong Kong

Host Institution

University of Hong Kong

Program(s)

University of Hong Kong

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

160

UCEAP Course Suffix**UCEAP Official Title**

MEDICAL MICROBIOLOGY AND APPLIED IMMUNOLOGY

UCEAP Transcript Title

MICROBIO & IMMUNLGY

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course examines the practical applications of immunology and microbiology in biological research, clinical analysis and disease diagnosis. It covers application of antigen-antibody interaction in advanced research such as chromatation; immunoprecipitation assay, co-immunoprecipitation and dual immunofluorescence analysis; principles of flow cytometry and its application; tumor immunology and immunotherapy such as FDA-approved checkpoint inhibitor immunotherapy and chimeric antigen receptor (CAR) T-cell therapy; microbial pathogens and associated diseases, host immune response, antimicrobial agents and multidrug resistance, epidemiology and prevention of microbial infections; and clinical laboratory analysis in haematology, chemical pathology, and clinical microbiology.

Language(s) of Instruction

English

Host Institution Course Number

BIOL 4401

Host Institution Course Title

MEDICAL MICROBIOLOGY AND APPLIED IMMUNOLOGY

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

2023-2024

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