

# COURSE DETAIL

## TRANSLATIONAL MICROBIOLOGY

**Country**

Singapore

**Host Institution**

National University of Singapore

**Program(s)**

National University of Singapore

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

124

**UCEAP Course Suffix****UCEAP Official Title**

TRANSLATIONAL MICROBIOLOGY

**UCEAP Transcript Title**

TRNSLTIONAL MICROBIO

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course covers the underlying principles and wide-ranging industrial, environmental, pharmaceutical, and biomedical applications of microbiology. The objectives are (a) to gain an understanding of the role of microorganisms for biotechnology applications in the fields of medicine, agriculture, organic chemistry, synthetic biology, public health, biomass conversion, bioremediation, and biomining; and (b) to review advances in genetics and molecular biology of industrial microorganisms, enzyme engineering, environmental microbiology, food microbiology, and molecular biotechnology. A particular focus will be on the meaning and impact of microbiology on human health and the development of new therapeutic approaches. The course requires students to take prerequisites.

### Language(s) of Instruction

English

### Host Institution Course Number

LSM3242

### Host Institution Course Title

TRANSLATIONAL MICROBIOLOGY

### Host Institution Course Details

<https://nusmods.com/courses/LSM3242/translational-microbiology>

### Host Institution Campus

### Host Institution Faculty

Yong Loo Lin School of Medicine

### Host Institution Degree

### Host Institution Department

Microbiology and Immunology

### Course Last Reviewed

2025-2026

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