

# COURSE DETAIL

## MICROBIOLOGY

**Country**

Netherlands

**Host Institution**

Maastricht University - Center for European Studies

**Program(s)**

Biological and Life Sciences, Maastricht, Biological and Life Sciences

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

146

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

MICROBIOLOGY

**UCEAP Transcript Title**

MICROBIOLOGY

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course begins with an introduction to Bacteriology and Virology. The general principles of replication, classification, metabolism and antibiotic resistance of bacteria as well as the presence of bacteria in several organ systems and the composition of the indigenous flora are discussed. This is followed by a discussion of the general principles of replication, classification, and pathogenesis of viruses. Several aspects of bacteriology and virology are further discussed in the expert and tutorial group meetings, which include topics as HIV, Tuberculosis, and extended spectrum beta-lactamases (ESBL). The following lectures cover infectious diseases, outbreaks and resistance, and microbiological diagnostics. In these topics, both the bacterial and viral aspects are discussed. The last part of this course deals with genetically modified microorganisms, in which students gain insight in the purposes of modification and the tools that are available. In the Problem-Based Learning tutorial group linked to this part of the course, students design their own experiment.

### Language(s) of Instruction

English

### Host Institution Course Number

BIO3003

### Host Institution Course Title

MICROBIOLOGY

### Host Institution Course Details

### Host Institution Campus

### Host Institution Faculty

Maastricht Science Programme

### Host Institution Degree

### Host Institution Department

## Course Last Reviewed

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