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 coverinfectious 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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