

COURSE DETAIL

INFECTIOUS DISEASES EPIDEMIOLOGY AND GLOBAL PUBLIC HEALTH

Country

Netherlands

Host Institution

Maastricht University – University College Maastricht

Program(s)

Biological and Life Sciences, Maastricht

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Health Sciences Biological Sciences

UCEAP Course Number

131

UCEAP Course Suffix**UCEAP Official Title**

INFECTIOUS DISEASES EPIDEMIOLOGY AND GLOBAL PUBLIC HEALTH

UCEAP Transcript Title

EPIDEMLOGY&GLBLHLTH

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This hybrid course combines the fields of Infectious Disease Epidemiology and Global Public Health to look into infectious diseases that have caused pandemics in the past decades. The topics discussed in Infectious Disease Epidemiology include history, basic epidemiological concepts and terminology, descriptive epidemiology, the epidemiologic triad model, and vaccine efficacy and effectiveness. Global Public Health topics include social and political determinants of health, public health policies, laws and ethics, international cooperation in health emergencies, and also the One Health concept. The hybrid nature of the course is realized through three viruses that have caused major zoonotic/infectious disease outbreaks, which are retroviruses (i.e., HIV/AIDS), influenza viruses (i.e., H5N1, H1N1, H7N9), and coronaviruses (i.e., SARS, MERS, COVID-19). The global impact of antimicrobial resistance (AMR) is explored in the third part of the course. Factors affecting antibiotic use, both on macro and micro levels, are discussed and analyzed. The course ends by highlighting the “One Health” concept (i.e., human-animal-environment interfaces) in responding to zoonotic diseases and AMR threats, both now and in the future.

Language(s) of Instruction

English

Host Institution Course Number

SCI2042

Host Institution Course Title

INFECTIOUS DISEASES EPIDEMIOLOGY AND GLOBAL PUBLIC HEALTH

Host Institution Campus

Maastricht Univeristy

Host Institution Faculty

University College Maastricht

Host Institution Degree

Host Institution Department

Sciences

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