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 Course Details
https://curriculum.maastrichtuniversity.nl/meta/484912/infectious-diseases-epid…

Host Institution Campus
Maastricht Univeristy

Host Institution Faculty

University College Maastricht

Host Institution Degree

Host Institution Department
Sciences

Course Last Reviewed
2024-2025

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