COURSE DETAIL

ECOLOGY AND EVOLUTION OF INFECTIOUS DISEASE
Country Ireland
Host Institution Trinity College Dublin
Program(s) Trinity College Dublin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Health Sciences Biological Sciences
UCEAP Course Number 126
UCEAP Course Suffix
UCEAP Official Title ECOLOGY AND EVOLUTION OF INFECTIOUS DISEASE
UCEAP Transcript Title INFECTIOUS DISEASE
UCEAP Quarter Units 5.00
UCEAP Semester Units 3.30

Course Description

This course provides an understanding of the ecological and evolutionary principles that underly disease symptoms, emergence, and outbreak. Though a series of lectures, supplemented with practical lessons the course explores how natural selection acts on hosts and their pathogens, what factors facilitate disease outbreaks, and how we might prevent pathogens from escaping our control. Using examples in human medicine, animals, and plants the course explores: why people get sick; how diseases emerge; super spreaders, individuals who generate many infections; how global warming can alter the interaction between diseases and their hosts; the evolution of antibiotic resistance and the evolution virulence; evolution proofing drugs; and many other concepts in evolutionary medicine, ecology, and evolution.

Language(s) of Instruction
English

Host Institution Course Number
ZOU33006

Host Institution Course Title
ECOLOGY AND EVOLUTION OF INFECTIOUS DISEASE

Host Institution Course Details
https://www.tcd.ie/students/orientation/visiting-exchange/module-directory/Zool...

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Zoology

Course Last Reviewed

2025-2026

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