

COURSE DETAIL

ENVIRONMENT IMPACTS ON HEALTH AND DISEASE

Country

United Kingdom - England

Host Institution

University of London, Queen Mary

Program(s)

Summer at Queen Mary London, Summer at Queen Mary

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Health Sciences

UCEAP Course Number

140

UCEAP Course Suffix

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UCEAP Official Title

ENVIRONMENT IMPACTS ON HEALTH AND DISEASE

UCEAP Transcript Title

ENV: HEALTH&DISEASE

UCEAP Quarter Units

6.00

UCEAP Semester Units

Course Description

This course provides clear understanding of the different types of environmental exposures that are related with pathogenic mechanisms of human diseases. The first section reviews the natural environment (land, water, air, energy) and its impact on health indicators as well as nutritional content of food and nutraceuticals. The second section focuses on the built environment (housing, urban vs. rural landscapes, transport, work) and the relation of our living conditions with health outcomes. The third section reviews the effects of the psychosocial environment (mental health, stress, socialization, financial status) on the public health. The fourth section expands on the microenvironment features (microbiome) and the epigenetic effects (gene-by-environment interactions) that modulate disease mechanisms. The final section of the course focuses on the combined and synergistic impact of all different types of the environment on health indicators. It also showcases the added value of multidisciplinary approaches to evaluate the combined impact of environment on health and disease.

Language(s) of Instruction

English

Host Institution Course Number

SUM701S

Host Institution Course Title

ENVIRONMENT IMPACTS ON HEALTH AND DISEASE

Host Institution Campus**Host Institution Faculty**

Wolfson Institute

Host Institution Degree**Host Institution Department**

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