

COURSE DETAIL

NATURAL HAZARDS

Country

Ireland

Host Institution

Trinity College Dublin

Program(s)

Trinity College Dublin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Geography

UCEAP Course Number

132

UCEAP Course Suffix**UCEAP Official Title**

NATURAL HAZARDS

UCEAP Transcript Title

NATURAL HAZARDS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

Short-lived, high magnitude extreme events, from meteorite impacts, to volcanic eruptions, fire, and storms, have shaped the surface of the earth throughout its geological history. Increasing population densities in critical locations on our planet (e.g. cities at the foot of volcanoes, on tectonic fault lines, and at the coast) and human impacts on the environment at the local, regional and global scale, however, have altered the likelihood and magnitude of certain types of natural hazards. This has brought the vulnerability of societies to natural hazards into sharp focus over recent decades. In October 2020, the UN Office on Disaster Risk Reduction (UNDRR) reported that, over the past two decades, 1.23 million people had lost their lives in a total of 7,348 'disaster events' that had been recorded globally (with floods (40% of occurrences), storms (28%), earthquakes (8%), and extreme temperatures (6%) as the four most impactful types of hazard). In our efforts to reduce the human and economic impact of such events, an understanding of the reasons for their occurrence, their spatial and temporal variability, the degree to which they are 'natural' as opposed to 'anthropogenic' as well as past and potential future societal responses to such events is critical. This course addresses the above aspects beginning with an introduction to 'natural' hazards and general concepts of risk and vulnerability. The introductory lectures are then followed by lectures, targeted reading and discussion groups. Finally, students explore case studies highlighting past, present, and potential future societal solutions for the mitigation of the impact of natural hazards with guest speakers bringing an applied natural hazard and risk management perspective to this course.

Language(s) of Instruction

English

Host Institution Course Number

GGU44901

Host Institution Course Title

NATURAL HAZARDS

Host Institution Course Details

<https://www.tcd.ie/media/tcd/geography/pdfs/Geography-UG-handbook-2025-26-Augus...>

Host Institution Campus

Host Institution Faculty

Geography

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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