COURSE DETAIL

NATURAL HAZARDS
Country United Kingdom - Scotland
Host Institution University of Edinburgh
Program(s) University of Edinburgh
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Earth & Space Sciences
UCEAP Course Number 114
UCEAP Course Suffix
UCEAP Official Title NATURAL HAZARDS
UCEAP Transcript Title NATURAL HAZARDS
UCEAP Quarter Units 8.00
UCEAP Semester Units 5.30

Course Description

This course introduces the Earth System as a basis for characterizing and understanding natural hazards, their causes and consequences. The major types of natural hazard are described, analyzed, and assessed in terms of their underlying causes as well as their socio-economic and environmental impacts. This course capitalizes on natural synergies between subsurface, surface, and human dimensions of the Earth System. Hazards for consideration include earthquakes and tsunamis, volcanic hazards (local, regional and global scale), meteorological hazards (hurricanes, tornadoes, dust storms, El-Nino, flooding and coastal erosion), topographic hazards such as collapse of unstable slopes, and hazards arising from climate change. The evidence for past natural catastrophes and hazards, recorded in natural archives, are described along with remote sensing methods for documenting current hazards and hazard risk. The principles and application of risk assessment and analysis are considered with respect to case studies. The course concludes with an overview of human settlement, planning, and policy in relation to natural hazards in the light of their socio-economic impacts.

Language(s) of Instruction
English

Host Institution Course Number
EASC08011

Host Institution Course Title
NATURAL HAZARDS

Host Institution Course Details
http://www.drps.ed.ac.uk/23-24/dpt/cxeasc08011.htm

Host Institution Campus

Host Institution Faculty
School of Geosciences

Host Institution Degree
Host Institution Department Earth Science
Course Last Reviewed 2023-2024

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