

Why Study Geophysical Hazards?

Natural disasters affect one in thirty people across the world each year. All nations are at risk and the field of natural hazards is one of the fastest growing areas of research in the Earth and Climate Sciences.

The MSc in Geophysical Hazards investigates the processes that turn natural events into hazards, from volcanic eruptions, earthquakes and landslides to floods, tsunami and hurricanes. It offers a unique focus on hazard forecasting and assessment and on how communities can use science to protect the vulnerable. It provides an essential grounding for all fields of hazard study, from pure research to applications in the commercial and humanitarian sectors.

Your Career

About one-third of previous graduates have continued with further research, one third have entered the insurance and re-insurance industry, and one-third have developed careers in a wide range of fields, from non-governmental organisations, through teaching, to emergency planning and environmental management.

About the UCL Hazard Centre

Established in 1997, the UCL Hazard Centre delivers the latest research and knowledge on natural hazards to industry, humanitarian and development organisations, government and civil protection agencies. It specialises in:

- Fundamental research on the geophysical processes that drive natural hazards.
- Practical strategies for forecasting natural hazards and their impact.
- Communicating hazard information to decision makers and vulnerable communities.

Want to know more? Please browse our website at: www.ucl.ac.uk/hazardcentre

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Cover Photo: Lava flows on Mt Etna, Sicily. C.R.J. Kilburn.

LONDON'S GLOBAL UNIVERSITY



UCL

Understanding Natural Hazards
Research - Training - Mitigation

MSc Geophysical Hazards

UCL Hazard Centre

Helping the Vulnerable Protect Themselves

Degree Structure

Full time: 1 year. Part-time: 2 years.

Students take modules to the value of 180 credits, consisting of six taught modules (120 credits) and an independent research project (60 credits). The taught modules are divided into Foundation and Advanced components.

Foundation modules.

The foundation modules introduce the spectrum of natural hazards faced around the globe, as well as techniques for getting your message across to non-specialists.

- Geological and Geotechnical Hazards
- Meteorological Hazards
- Skills and Techniques

Advanced modules.

The advanced modules study in detail how we analyze the processes that drive natural hazards and design methods to forecast and mitigate their impact.

- Physical Volcanology and Volcanic Hazards
- Earthquake and Tsunami Hazards
- Meteorological and Hydrogeological Hazards

Independent Research Project.

Independent research projects are designed in collaboration with prospective supervisors. Excellent opportunities are available for both desk-top and field investigations.

A short field trip is normally included to illustrate the impact of natural hazards. Previous trips have visited the Neapolitan volcanic district, the Italian Alps and Po Delta, and Southwest Spain.

Further details can be found at:

<https://www.ucl.ac.uk/earth-sciences/study-here/postgraduate/geophysical-hazards>

or contact **Dr Christopher Kilburn** at c.kilburn@ucl.ac.uk.

Details of how to **apply** can be found at: www.ucl.ac.uk/graduate/apply

Details of current **fees** and the **application deadline** can be found at:

<https://www.ucl.ac.uk/prospective-students/graduate/taught-degrees/geophysical-hazards-msc>

Scholarships: UCL offers a selection of scholarships for supporting postgraduate studies. Details can be found at: www.ucl.ac.uk/scholarships

Entry Requirements

Normally a minimum of an upper-second class Honours degree in a relevant discipline from a UK university or an overseas qualification of an equivalent standard*. Applicants with lower qualifications may be admitted if evidence of an adequate academic background and appropriate experience can be shown.

*Overseas applicants can find the equivalent degree levels in their country at:

<http://www.ucl.ac.uk/prospective-students/international/countries>

English Language Proficiency Level

If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

Information about the evidence required, acceptable qualifications and test providers can be found at: www.ucl.ac.uk/graduate/english-requirements. The level of proficiency for this programme is: **Standard**.

Your Application

Students are advised to apply *as early as possible* due to competition for places. Those applying for **scholarship funding** (particularly overseas applicants) should take note of application deadlines. When we assess your application, we would like to learn:

- What attracts you to studying Geophysical Hazards at graduate level.
- Why you want to study at UCL.
- How your academic and professional background meets the demands of this programme.
- Where you would like to go professionally with your degree:
e.g., are you interested in pursuing a career in research, or in applying your knowledge to the humanitarian or commercial sectors?

Remember, your personal statement is **your opportunity** to show how your reasons for applying match what the programme will deliver.