

Trinity College Dublin Coláiste na Tríonóide, Baile Átha Cliath The University of Dublin

## **TR062**

Geography and Geoscience



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Faculty of Engineering, Mathematics and Science

**Geography and Geoscience** is the study of our planet and the people that live on it. This multidisciplinary programme is designed by leading research scientists in response to critical challenges facing the Earth system and humanity in the 21st century. It integrates knowledge from the physical, chemical, biological and social sciences to develop novel insights into Earth system function and humanenvironment interactions. So, if you are interested in studying the dynamics of our planet, understanding environmental changes past, present and future, and learning how to manage Earth's resources in an economic and sustainable manner, we have the degree for you.

Course Code: Places 2022/23: Degree Awarded: Degree Type: NFQ: Awarding Body:

tcd.ie/science

TR062

54 B.A. (Moderatorship) Honours Bachelor Degree Level 8 Trinity College Dublin, The University of Dublin



**Trinity College Dublin** Coláiste na Tríonóide, Baile Átha Cliath The University of Dublin



Trinity is the first and only Irish university to join the prestigious ranks of the League of European Research Universities (LERU).

The Geography and Geoscience degree programme is the new entry pathway to the study of Geography, Geology and Earth Science at Trinity. Our four-year programmes, culminating in the degrees of Geography or Geoscience, combine classroom lectures, seminars, laboratory-based practical classes, and outdoor field work, to develop the theoretical understanding and technical expertise needed to address applied, realworld problems such as natural resource management and sea level rise.



## Structure of the Geography and Geosciences Degree Programme



In years 1 and 2 you will acquire a broad grounding in geography and geoscience with an emphasis on physical geography, geology and human-environment interactions. You will learn about topical issues such as climate change, natural hazards (e.g. volcanoes, earthquakes, landslides), energy, sustainability and natural resources. These foundation years cover a diverse range of material including: the origins and development of our planet; earth structure and composition; circulation in the atmosphere and oceans; the evolution of life on Earth; Earth surface processes and environments (e.g. glaciers, rivers and deserts). In addition to learning about the physical, chemical and biological processes responsible for creating and shaping the Earth, students will also consider the unique role that humans play in the Earth system, including their impacts on the land, air and water, and the grand challenges linked to environmental governance, policy and management.

In years 3 and 4, you will deepen your knowledge in specialist areas, while further developing a portfolio of practical and technical skills (e.g. geochemical analysis, geographical information systems, remote sensing). Our flexible programme structure provides for module choice while retaining coherent curriculum design, thereby ensuring graduates are well prepared for entry to the constantly changing job market. Specialist options span the breadth of Geography and Geoscience, allowing you to tailor the course to suit your interests. In this way, you may focus on topics traditionally associated with geography (e.g. geomorphology, globalisation, sustainability) or geology (e.g. volcanology, palaeontology, natural resources), or you may choose to retain a broader, multi-disciplinary perspective that spans the critical interface between science and society.

## **Career Opportunities**

Geography and geoscience graduates are highly valued for their cross-disciplinary expertise, adaptability and experience of dealing with complex spatial or multivariate data sets. They are in demand to work on many of society's most important challenges, and can pursue lucrative and personally rewarding careers in industry, academia, research and government. Careers leading directly from the programme include work in: environmental, engineering and geological consultancies; mineral exploration companies; the hydrocarbon industry; environmental planning; overseas development; government geological surveys; teaching and research.