



**GEOLOGY BSc /**  
UCAS CODE: F600  
2019 ENTRY

[www.ucl.ac.uk/prospectus](http://www.ucl.ac.uk/prospectus)



# Geology BSc /

This BSc provides an education in all major branches of the geological sciences, integrating theoretical studies with essential practical skills in the field and laboratory. It prepares students for careers in the oil, mineral, environmental and geotechnical industries, and is fully accredited by the Geological Society of London.

## Key information

### Programme starts

September 2019

### Location

London, Bloomsbury

## Degree benefits

- // Approximately three months of field classes in the UK and continental Europe and independent field mapping projects in Scotland, Southern France and Spain, with financial support from the department.
- // The programme is fully accredited by the Geological Society of London.
- // World-leading research in geophysical hazards, mineral, ice and rock physics and palaeoenvironmental analysis is undertaken in the department and is used in the development of our modules.
- // World-class facilities include hosting the UK's only NASA Regional Planetary Image Facility, use of the UCL University of London Observatory, and collaboration with the Natural History Museum.

### Accreditation

This programme is accredited by [the Geological Society](#). Undergraduate students may join the Geological Society as a Candidate Fellow and can become a Fellow of the Society upon graduation. A Fellow of the Society with relevant postgraduate experience in the practice of geology has the opportunity to apply for Chartered Geologist (CGeol) status.

## Degree structure

In each year of your degree you will take a number of individual modules, normally valued at 15 or 30 credits, adding up to a total of 120 credits for the year. Modules are assessed in the academic year in which they are taken. The balance of compulsory and optional modules varies from programme to programme and year to year. A 30-credit module is considered equivalent to 15 credits in the European Credit Transfer System (ECTS).

Together with subject-specific skills, the Geology BSc programme provides a strong intellectual and practical platform for those who wish to pursue non-geological careers as it integrates a wide range of ideas from many different scientific disciplines, including chemistry, physics and biology, and provides training in the application of scientific methods and knowledge to complex problems.

The programme includes: studies of the nature of rocks and minerals, their mode of origin and environment of formation; the study of past life and palaeoenvironments; the physics and chemistry of the Earth; major Earth processes such as plate tectonics and mountain building (tectonics).

During fieldwork students learn to apply and develop independent and team skills and problem-solving abilities which complement and build upon lectures and laboratory-based coursework, whilst being exposed to the true complexity of natural geological systems.

The BSc programme is identical to the first three years of the MSci programme.

### YEAR ONE

#### Core or compulsory module(s)

- // Dynamic Earth  
Earth Materials  
From Petrology to Petrogenesis (including Cornwall fieldwork)  
Geochemistry  
History of Life  
Surface Processes (including Dorset/Devon fieldwork)  
The Earth

#### Optional modules

- // You will select 15 credits from the following:
- // Foundations of Physical Geoscience  
Mathematics  
Science Communication and Public Engagement  
Revealing Science

### YEAR TWO

#### Core or compulsory module(s)

- // Global Geophysics  
Igneous Petrology  
Isotope Geology  
Maps, Images and Structures (including fieldwork)  
Structural Geology and Tectonics  
Surface Processes and Structures (including fieldwork)  
Vertebrate Palaeontology and Evolution

#### Optional modules

- // You may select 15 credits from the following:
- // Principles of Climate
- // Numerical Methods for Earth Sciences
- // Evolution in Science and Culture
- // Engaging the Public with Science

## FINAL YEAR

### Core or compulsory module(s)

- // Crustal Dynamics, Mountain Building and Basin Evolution (including Betics fieldwork)  
Earth Resources and Sustainability  
Geodynamics and Global Tectonics  
Geological or Environmental Mapping Project

### Optional modules

- // You may select up to 45 credits from the following options:
- // Advanced Geochemistry  
Biodiversity and Macroevolutionary Patterns  
Geosciences Report  
Groundwater Science  
Marine Geology  
Ocean Physics and Climate Change  
Seismology I

## Your learning

We use a mixture of lectures, practical classes, field courses, directed reading, problem-orientated learning, private study and tutorials to enable you to gain the theoretical knowledge and practical skills demanded by the programme, as well as to develop key transferable skills such as critical analysis, report writing, team working and organisational skills.

### Assessment

You will be assessed by a combination of written examinations, practical examinations, coursework, independent project reports and sometimes an oral examination.

## Your career

The programme provides a broad education in geology, integrating field and laboratory skills with theoretical studies. The strong emphasis on fieldwork provides a unique opportunity to develop independent and team skills, problem-solving abilities and specific skills such as rock identification, fabric recognition, map-making and the geometrical solving of complex three-dimensional structures.

All our students are encouraged and helped towards making informed career choices. We have excellent relationships with many employers in diverse aspects of the Earth and planetary sciences, and students are actively guided towards achieving their potential at UCL in preparation for their future careers.

First destinations of recent graduates (2013-2015) of this programme at UCL include:

- // Engineering Geologist, Gamuda Berhad
- // Business Development Manager, Unspecified Company
- // Full-time student, MSc in Reservoir Engineering, University of Aberdeen
- // Music Producer, Universal Music Group (UMG)

## Your application

Application for admission should be made through UCAS (the Universities and Colleges Admissions Service). Applicants currently at school or college will be provided with advice on the process; however, applicants who have left school or who are based outside the United Kingdom may obtain information directly from UCAS.

We will assess your application on the basis of your performance, or predicted performance academically, but we will also be looking for an indication of how your interest in natural and Earth sciences has developed, what aspects particularly appeal to you, and whether you have undertaken any research or reading to find out about the subject matter you wish to study.

We normally reach a decision on making an offer on the basis of the application alone. If you are resident in the UK and have been made an offer you will be invited to a Post Offer Open Day. This visit will include introductory talks on UCL Earth Sciences and our degree programmes, a tour of the department and UCL and a question and answer session.



## Entry requirements

### A LEVELS

**Standard Offer:** AAB. Two sciences preferred.

**Contextual Offer:** BBB. Two sciences preferred.

### GCSE

English Language and Mathematics at grade C or 5. For UK-based students, a grade C or 5 or equivalent in a foreign language (other than Ancient Greek, Biblical Hebrew or Latin) is required. UCL provides opportunities to meet the foreign language requirement following enrolment, further details at: [www.ucl.ac.uk/ug-requirements](http://www.ucl.ac.uk/ug-requirements)

### IB DIPLOMA

**Standard Offer:** 36. A score of 17 points in three higher level subjects to preferably include two sciences, with no score lower than 5.

**Contextual Offer:** 32. A score of 15 points in three higher level subjects to preferably include two sciences, with no score lower than 5.

### CONTEXTUAL OFFERS – ACCESS UCL SCHEME

As part of our commitment to increasing participation from underrepresented groups, students may be eligible for a contextual offer as part of the Access UCL scheme. For more information see [www.ucl.ac.uk/prospectus](http://www.ucl.ac.uk/prospectus)

### OTHER QUALIFICATIONS

UCL considers a wide range of UK and international qualifications for entry into its undergraduate programmes. Full details are given at: [www.ucl.ac.uk/otherquals](http://www.ucl.ac.uk/otherquals)

### UNDERGRADUATE PREPARATORY CERTIFICATES (International foundation courses)

UCL Undergraduate Preparatory Certificates (UPCs) are intensive one-year foundation courses for international students of high academic potential who are aiming to gain access to undergraduate degree programmes at UCL and other top UK universities.

Typical UPC students will be high achievers in a 12-year school system which does not meet the standard required for direct entry to UCL.

For more information see: [www.ucl.ac.uk/upc](http://www.ucl.ac.uk/upc).

## TUITION FEES

The fees indicated are for undergraduate entry in the 2019/20 academic year. The UK/EU fees shown are for the first year of the programme at UCL only. Fees for future years may be subject to an inflationary increase. The Overseas fees shown are the fees that will be charged to 2019/20 entrants for each year of study on the programme, unless otherwise indicated below.

// UK & EU: £9,250 (2019/20)

// Overseas: £26,740 (2019/20)

Full details of UCL's tuition fees, tuition fee policy and potential increases to fees can be found on the [UCL Students website](http://www.ucl.ac.uk/students).

### Additional costs

Students will be required to pay for transportation to overseas field trips and food. (The department covers accommodation and transport costs in the UK.)

## FUNDING

Various funding options are available, including student loans, scholarships and bursaries. UK students whose household income falls below a certain level may also be eligible for a non-repayable bursary or for certain scholarships. Please see the [Fees and funding](#) pages for more details.

## CONTACT

Dr Pieter Vermeesch

**Email:** [earthsci@ucl.ac.uk](mailto:earthsci@ucl.ac.uk)

**Telephone:** +44 (0)20 3108 6369

**Department:** Earth Sciences

### EU referendum

For up-to-date information relating to specific key questions following the UK's decision to leave the EU, please refer to:

[www.ucl.ac.uk/ucl-and-europe](http://www.ucl.ac.uk/ucl-and-europe)

### Disclaimer

This information is for guidance only. It should not be construed as advice nor relied upon and does not form part of any contract. For more information on UCL's degree programmes please see the UCL Undergraduate Prospectus at [www.ucl.ac.uk/prospectus](http://www.ucl.ac.uk/prospectus)

