GEOPHYSICS MSci
UCAS CODE: F663
2018 ENTRY

www.ucl.ac.uk/prospectus/earthsci
This four-year programme offers an additional year on top of the Geophysics BSc, in which students extend their knowledge and understanding by taking advanced modules and undertaking an independent research project. The programme is fully accredited by the Geological Society of London.

**Key information**

**Programme starts**
September 2018

**Location**
London, Bloomsbury

**Key benefits**

- The programme includes up to three months of field classes in the UK and continental Europe, with financial support from the department.
- UCL has state-of-the-art geophysical instruments including the new must-do technique of ground penetrating radar (GPR), a new magnetometer/gradimeter (for archaeological and environmental surveys) and new, modern seismics.
- The programme is fully accredited by the Geological Society of London.
- World-leading research in mineral, ice and rock physics, and in geophysical hazards, is undertaken in the department and is used in the development of our modules.

**Research Excellence Framework (REF) 2014**
The Research Excellence Framework, or REF, is the system for assessing the quality of research in UK higher education institutions. The 2014 REF was carried out by the UK’s higher education funding bodies, and the results used to allocate research funding from 2015/16.

- 92% rated 4* ('world-leading') or 3* ('internationally excellent')

Learn more about the scope of UCL’s research, and browse case studies, on our Research Impact website.

**Accreditation**
This programme is accredited by The Geological Society. Undergraduate students may join The Geology 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 (CGeoI) status.
YEAR THREE

Core or compulsory module(s)

- Field Methods in Active Tectonics (including Abruzzo-Vesuvius fieldwork)
- Geodynamics and Global Tectonics
- Seismology I
- Seismology II

Optional modules

- You will select 1.5 credits from the following:
  - Advanced Geochemistry
  - Climate and Energy
  - Crustal Dynamics, Mountain Building and Basin Evolution (including Betics fieldwork)
  - Earth Resources and Sustainability
  - Groundwater Science
  - Marine Geology
  - Ocean Physics and Climate Change

YEAR THREE

Core or compulsory module(s)

- Earth and Planetary System Science (including Germany fieldwork)
- Independent MSci Project

Optional modules

- You will select 2.0 credits from the following:
  - Deep Earth and Planetary Modelling
  - Earth and Planetary Materials
  - Earthquake Seismology and Earthquake Hazards
  - Melting and Volcanism
  - Physical Volcanology and Volcanic Hazard
  - Tectonic Geomorphology

- You may take up to 1.0 credit outside the department.

FINAL YEAR

Core or compulsory module(s)

- Earth and Planetary System Science (including Germany fieldwork)
- Independent MSci Project

Optional modules

- You will select 2.0 credits from the following:
  - Deep Earth and Planetary Modelling
  - Earth and Planetary Materials
  - Earthquake Seismology and Earthquake Hazards
  - Melting and Volcanism
  - Physical Volcanology and Volcanic Hazard
  - Tectonic Geomorphology

- You may take up to 1.0 credit outside the department.

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

Together with subject-specific skills, geophysics graduates have a wide range of transferable skills, developed through fieldwork, computer modelling and independent research, which are highly valued by employers in general, offering opportunities for careers in the City, commerce and government.

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 Geophysics programmes at UCL include:

- Geophysicist, Schlumberger
- Full-time student, MA in Geophysics at Imperial College London
- Full-time student, PhD in Earth Sciences at UCL

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 an applicant 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.

Data taken from the 'Destinations of Leavers from Higher Education' survey undertaken by HESA looking at the destinations of UK and EU students in the 2013-2015 graduating cohorts six months after graduation.
Entry requirements

A LEVELS
Grades
AAA-ABB
Subjects
Mathematics and Physics required.

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-reqs

IB DIPLOMA
Points
34-38 overall.
Subjects
A score of 16-18 points in three higher level subjects including Mathematics and Physics, with no score lower than 5.

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

UNDERGRADUATE PREPARATORY CERTIFICATES (International foundation courses)
The 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.

TUITION FEES
The fees indicated are for undergraduate entry in the 2018/19 academic year. The UK/EU fees shown are for the first year of the programme at UCL only. The Overseas fees shown are the fees that will be charged to 2018/19 entrants for each year of study on the programme, unless otherwise indicated below.

UK & EU: £9,250 (2018/19)
Overseas: £25,960 (2018/19)

Full details of UCL’s tuition fees, tuition fee policy and potential increases to fees can be found on the UCL Students website.

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
Telephone: +44 (0)20 7679 2428
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/eu-referendum

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