

## Course Information Document: Undergraduate

### For students starting in Academic Year 2024/25

#### 1. Course Summary

<b>Names of programme and award title(s)</b>	BSc (Hons) Geology and Physical Geography BSc (Hons) Geology and Physical Geography with International Year (see Annex for details) BSc (Hons) Geology and Physical Geography with Work Placement Year (see Annex for details)
<b>Award type</b>	Single Honours
<b>Mode of study</b>	Full-time
<b>Framework of Higher Education Qualification (FHEQ) level of final award</b>	Level 6
<b>Normal length of the programme</b>	3 years; 4 years with either the International Year or Placement Year between years 2 and 3
<b>Maximum period of registration</b>	The normal length as specified above plus 3 years
<b>Location of study</b>	Keele Campus
<b>Accreditation (if applicable)</b>	The Geology courses are accredited by the Geological Society of London.
<b>Regulator</b>	Office for Students (OfS)
<b>Tuition Fees</b>	<p><b>UK students:</b></p> <p>Fee for 2024/25 is £9,250*</p> <p><b>International students:</b></p> <p>Fee for 2024/25 is £20,700**</p> <p>The fee for the international year abroad is calculated at 15% of the standard year fee</p> <p>The fee for the work placement year is calculated at 20% of the standard year fee</p>

**How this information might change:** Please read the important information at <http://www.keele.ac.uk/student-agreement/>. This explains how and why we may need to make changes to the information provided in this document and to help you understand how we will communicate with you if this happens.

\* These fees are regulated by Government. We reserve the right to increase fees in subsequent years of study in response to changes in government policy and/or changes to the law. If permitted by such change in policy or law, we may increase your fees by an inflationary amount or such other measure as required by government policy or the law. Please refer to the accompanying Student Terms & Conditions. Further information on fees can be found at <http://www.keele.ac.uk/studentfunding/tuitionfees/>

\*\* We reserve the right to increase fees in subsequent years of study by an inflationary amount. Please refer to the accompanying Student Terms & Conditions for full details. Further information on fees can be found at <http://www.keele.ac.uk/studentfunding/tuitionfees/>

## 2. What is a Single Honours programme?

The Single Honours programme described in this document allows you to focus more or less exclusively on the subjects of Geology and Physical Geography. In keeping with Keele's commitment to breadth in the curriculum, the programme also gives you the opportunity to take some modules in other disciplines via the Global Challenge Pathways as part of a 360-credit Honours degree. Thus it enables you to gain, and be able to demonstrate, a distinctive range of graduate attributes.

## 3. Overview of the Programme

This course combines different approaches to studying the world around you. Physical Geography explores the Earth's varied landscapes and the complex, potentially fragile, global systems that connect them. Geology examines the structure and history of the Earth, its processes, materials and resources. Geology is also playing a key role in establishing a decarbonised, sustainable future through development of carbon neutral energy sources such as geothermal, sustainable extraction of mineral resources and geological sequestration of carbon dioxide. As a Geology and Physical Geography student at Keele, you will learn about the rapidly evolving science at the heart of global environmental change and discover new ways of understanding and appreciating the physical and natural world around us.

The course includes a balance of physical geography and geology topics, as well as material from complementary disciplines such as geophysics, meteorology, geomorphology, and environmental science. Students will learn about the history of the Earth, its past and present environments, and the planet's resources and hazards. The programme will look at the Earth as a global system, including the causes and effects of global environmental change. There is strong emphasis on developing both laboratory and fieldwork skills.

In the first year of the course, we lay the foundations for more detailed study of geological and physical geography concepts in years 2 and 3. We assume that students have no previous knowledge of the subjects and, therefore, the course starts from basics. During year 2, particular attention will be paid to first-hand observation, recording and interpretation of geological and physical geography phenomena in the field and laboratory. It is the intention that by the end of the second year students will have been given a complete grounding in geology and physical geography that will enable them to carry out their own independent studies. In the final year of the programme all students complete an independent project worth 30-credits and select from a portfolio option modules that are designed to provide in-depth coverage of a particular topic.

Combining fieldwork, practical classes and lectures, this course provides a diverse range of specialist options. Students will focus particularly on research skills: they will learn to collect, analyse and interpret different types of data, and to carry out research using specialist software and equipment. Importantly, students will gain a wide range of skills that are currently in demand and, given current concerns around environmental change and natural resources, are likely to continue to be in strong demand in the future. What you learn on this degree programme will equip you for future employment and for a lifelong appreciation of the world around you.

## 4. Aims of the programme

The broad aims of the programme are to:

- enable you to specialise in Geology and Physical Geography via a three-year Single Honours programme to obtain a more in-depth experience of the subjects, as well as gaining additional experience in independent project work and key skills
- provide a broad-based introduction to Geology and Physical Geography at Level 4 that does not require previous knowledge of these subject areas, and to utilise the material covered at Level 4 to lay the foundations for detailed study of geological and physical geography concepts at Levels 5 & 6
- achieve a sound knowledge and understanding of a range of different specialisms within and approaches to Geology and Physical Geography, while recognising both the diversity of the disciplines and their unifying themes
- provide an understanding of the structure and composition of the Earth and other planets
- provide an integrated approach to understanding the present and past interactions between the physical, chemical and biological processes operating in the Earth's core, mantle, crust, and at the surface
- provide an understanding of the history of the Earth over geological time scales
- promote an awareness of the dual context of the subjects in society, as well as providing knowledge and understanding of both the exploitation and the conservation of the Earth's resources
- provide an understanding of the scientific fundamentals in geology and physical geography, and an adequate knowledge base for a career in research or industry
- emphasise the development of field, laboratory, presentational, writing and information technology skills to prepare graduates for independent work in their professional careers
- provide a fully integrated fieldwork programme, including the opportunity to attend overseas field courses
- provide appropriate monitoring schemes and feedback for students on their progress
- provide a wide choice of subject options and all-round education

## 5. What you will learn

The intended learning outcomes of the programme (what students should know, understand and be able to do at the end of the programme), can be described under the following headings:

- Subject knowledge and understanding
- Subject specific skills
- Intellectual skills
- Employability skills

### Subject knowledge and understanding

Successful students will be able to demonstrate knowledge and understanding of:

- the terminology, nomenclature and classification of rocks, minerals, fossils and geological structures
- geological and earth surface processes and how they integrate to shape the natural world at different temporal and spatial scales
- the structure and composition of the Earth and other planets
- geological time, including the principles of stratigraphy, the stratigraphic column, dating techniques, rates of Earth processes and major events in Earth history
- the evolution of life on Earth as revealed by the fossil record
- major geoscience paradigms, including uniformitarianism, the extent of geological time and plate tectonics
- the need for both a multi-disciplinary and interdisciplinary approach to the development of knowledge in geology and physical geography
- the different components of the Earth system and how they interact to control changes of physical environments through time and, in turn, how they impact on society
- patterns of spatial variation as dynamic characteristics of the physical environment
- different methods used in the observation, analysis, interpretation and representation of geological and geographical information
- how the geology and physical geography of a field study area can be used to illustrate and deepen understanding of the evolution of a wider region
- modern environments and processes, and use of this knowledge to interpret aspects of the geological record
- issues concerning the exploration, availability and sustainability of natural resources
- geological and physical geography aspects of human impacts on the physical environment
- natural hazards and their impacts on society
- applications of geology and physical geography to the development of knowledge, wealth creation and improving quality of life
- the United Nations Sustainable Development Goals and how they relate to geology

### Subject specific skills

Successful students will be able to:

- identify a wide range of igneous, sedimentary and metamorphic rocks, as well as a wide range of minerals, fossils and geological structures
- implement three-dimensional analysis with particular reference to the subsurface distribution and relationships of rocks observed at the surface
- collect and record geological and geographical information in the field, including the production and interpretation of a variety of different map types
- plan, design and execute an independent piece of project work that integrates aspects of geology and physical geography, including acquisition and recording of data in the field, followed by the processing, interpretation and presentation of this data, and the production of a final report
- make safe and effective use of a range of field equipment commonly used by the geoscience profession and develop an understanding of the scope and limitations of such equipment
- undertake effective fieldwork with due regard for safety, risk assessment, rights of access, relevant health and safety regulations and sensitivity to the impact of investigations on the environment
- work safely in a scientific laboratory, with awareness of standard methods and procedures and with due regard for risk assessment and relevant health and safety regulations
- prepare effective maps and diagrams using a range of appropriate technologies
- employ a variety of technical field and laboratory-based methods for the collection and analysis of spatial and environmental information, including surveying and the use of GIS
- combine and interpret different types of geological and geographical evidence using quantitative and qualitative approaches
- appreciate the issues of sample selection, accuracy, precision and uncertainty during collection, recording and analysis of geological and geographical data in the field and laboratory
- use powers of observation, analysis and imagination to make decisions in the light of uncertainty

### Intellectual skills

Successful students will be able to:

- recognise and use subject-specific theories, concepts and principles to make reasoned decisions and solve problems
- analyse, synthesise and summarise data and information critically, including prior research
- collect and integrate several lines of evidence to formulate and test hypotheses, and make critical judgements
- apply knowledge and understanding to address familiar and unfamiliar problems
- assess the merits of contrasting theories, explanations and policies
- recognise the moral and ethical issues of investigations and appreciate the need for professional codes of conduct
- develop an adaptable and flexible approach to study and work
- identify and work towards targets for personal, academic and career development
- take responsibility for their own learning and develop a habit of reflection upon that learning

### **Key or transferable skills (including employability skills)**

Successful students will be able to:

- develop and sustain effective approaches to learning and study, including time management, flexibility, creativity and intellectual integrity
- communicate effectively to a variety of audiences in written, verbal and graphical forms
- work with numerical data using appropriate qualitative and quantitative techniques, as well as computer software packages
- work effectively with a variety of types of information technology to analyse and present information and data, as well as solve numerical problems
- use the internet as a means of communication and a source of information
- demonstrate competence in spatial awareness and observation
- conduct field and laboratory studies
- reference work in an appropriate manner
- work with information handling and retrieval systems using data from a wide range of sources
- work effectively both as an individual and as part of a group or team, recognising and respecting the viewpoints of others
- sustain motivation to work towards a goal over an extended period of time
- recognise responsibilities as a local, national and international citizen

### **The Keele Graduate Attributes**

The Keele Graduate Attributes are the qualities (skills, values and mindsets) which you will have the opportunity to develop during your time at Keele through both the formal curriculum and also through co- and extra-curricular activities (e.g., work experience, and engagement with the wider University community such as acting as ambassadors, volunteering, peer mentoring, student representation, membership and leadership of clubs and societies). Our Graduate Attributes consist of four themes: **academic expertise, professional skills, personal effectiveness, and social and ethical awareness**. You will have opportunities to engage actively with the range of attributes throughout your time at Keele: through your academic studies, through self-assessing your own strengths, weaknesses, and development needs, and by setting personal development goals. You will have opportunities to discuss your progress in developing graduate attributes with, for example, Academic Mentors, to prepare for your future career and lives beyond Keele.

## **6. How is the programme taught?**

Learning and teaching methods used on the programme vary according to the subject matter and level of the module. They include the following:

- Lectures
- Workshops
- Practical classes
- Field courses
- Individual progress interviews
- Directed reading
- Oral presentations and linked discussion
- Independent study and project work
- Use of online learning via the Keele Learning Environment (KLE) and other platforms (e.g. MS Teams, MS Sway)

You will learn through a variety of engaging and innovative activities and assessments. The programmes are designed so that knowledge and skills are introduced in a supportive manner that leads to greater independence as you develop as a geoscientist.

The directed reading, on-line learning materials and lecture slides available in advance on the KLE help you

prepare for lecture-based material, while practical classes reinforce concepts learned in lectures through problem solving and practical application of geological and physical geography techniques. Some classes are taught in workshop format integrating both lecture and practical material. Fieldwork provides a deep, immersive learning experience that puts geological and physical geography processes and their features into their four dimensional context. The independent project provides the opportunity to bring together and demonstrate proficiency in all areas of geology and physical geography.

Apart from these formal activities, students are also provided with regular opportunities to talk through particular areas of difficulty, and any special learning needs they may have, with their Academic Mentors or module lecturers on a one-to-one basis.

These learning and teaching methods provide students with the flexibility to achieve the learning outcomes of the programme in a variety of ways.

## 7. Teaching Staff

Currently our core teaching staff members comprises of a number of Professors, Senior Lecturers, Lecturers and Postdoctoral Teaching Fellows, who between them have expertise and interests in all major areas of geology and physical geography as well as complementary vocational disciplines such as computing.

All current academic members of staff are active researchers and many have a distinguished track record in publication, the generation of grant income, industrial collaboration and journal editorship. Several staff have particular interests in the development of geology and physical geography education and/or have played an active role in the promotion of UK geology and physical geography activities (e.g. via membership of Geological Society and Royal Geographical Society committees). Two members of the Physical Geography teaching team have been awarded National Teaching Fellowships (NTF) by the Higher Education Academy (HEA). A number of staff are Senior Fellows and Fellows of the HEA and several have an MA in Teaching and Learning. Many have professional qualifications such as Fellow of the Geological Society (FGS), Chartered Geologist (CGeol), Fellow of the Royal Geographical Society (FRGS), Fellow of the Royal Astronomical Society (FRAS), as well as others. Members of Geology and Physical Geography staff have also won both group and individual Keele Teaching and Learning Excellence Awards. Staff details are available at <https://www.keele.ac.uk/gge/ourpeople/>

The University will attempt to minimise changes to our core teaching teams, as the delivery of the programme depends on having a sufficient number of staff with the relevant expertise to ensure that the programme is taught to the appropriate academic standard. Staff turnover, for example where key members of staff leave, fall ill or go on research leave, may result in changes to the programme's content. The University will endeavour to ensure that any impact on students is limited if such changes occur.

## 8. What is the structure of the Programme?

The academic year runs from September to June and is divided into two semesters. The number of weeks of teaching will vary from course to course, but you can generally expect to attend scheduled teaching sessions between the end of September and mid-December, and from mid-January to the end of April. Our degree courses are organised into modules. Each module is usually a self-contained unit of study and each is usually assessed separately with the award of credits on the basis of 1 credit = 10 hours of student effort. An outline of the structure of the programme is provided in the tables below.

The Geology and Physical Geography Single Honours programme is modular in structure. The programme provides a broad-based first year followed by more specialised second year and third-year studies. We assume no prior expertise in geology or physical geography, and begin with introductory modules that provide a platform from which students can develop their knowledge, understanding and skills. First year is an introductory year in which students acquire essential academic skills and a foundation of knowledge of the underlying concepts and principles of the subjects. Second year develops a critical understanding of more advanced topics and conceptual issues in the subject, and helps students to establish skills in independent research. Third year allows students to explore specialised topics of their choice at the level of the most recent scientific research, and to develop a range of advanced skills.

There are two types of module delivered as part of your programme. They are:

- Compulsory modules - a module that you are required to study on this course;
- Optional modules - these allow you some choice of what to study from a list of modules.

Optional modules include Global Challenge Pathways - a choice of modules from different subject areas that count towards the overall credit requirement but not the number of subject-related credits.

Global Challenge Pathways can either be taken as one 15-credit module at Levels 4, 5 and 6, or one 15-credit module at Levels 5 and 6 (except for the TESOL pathway). **Information about Global Challenge Pathways can be found after the module lists for Level 6.**

### Language modules

Students on this programme will also be able to study language modules offered by the Language Centre, as part of a Global Challenge Pathway. You can enrol on either a Modern Language module [more information available at this [link](#)] (Semester 1 only) Teaching English to Speakers of Other Languages (TESOL) (Semesters 1 and 2) module (ENL-10053), or the Intercultural Explorer pathway (ENL-10057). See the Global Challenges Pathway information under the module lists for more details.

If you choose the Language Specialist pathway, you will automatically be enrolled on a Semester 2 Modern Language module as a continuation of your language of choice as a faculty funded 'additional' module. Undertaking a Modern Languages module in Semester 2 is compulsory if you wish to continue to the Language Specialist Global Challenge Pathway the following academic year.

For further information on the content of modules currently offered, please visit:

<https://www.keele.ac.uk/recordsandexams/modulecatalogue/>

A summary of the credit requirements per year is as follows.

Year	Compulsory	Optional	
		Min	Max
Level 4	105	15	15
Level 5	105	15	15
Level 6	30	90	90

## Module Lists

### Level 4

At Level 4, students take 105 credits of compulsory modules. The remaining 15 credits may either be used to take a Global Challenge Pathway or one of the optional modules listed below.

Compulsory modules	Module Code	Credits	Period
Fundamentals of Physical Geography	ESC-10039	15	Semester 1
Minerals and Rocks	ESC-10070	15	Semester 1
Earth Structure	ESC-10074	15	Semester 1
Academic, Fieldwork and Employability Skills	ESC-10094	30	Semester 1-2
People and the Environment	ESC-10041	15	Semester 2
Stratigraphy and Palaeontology	ESC-10076	15	Semester 2

Optional modules	Module Code	Credits	Period
Geoscience Data Interpretation, Analysis and Visualisation	ESC-10047	15	Semester 2

*NB: Global Challenge Pathways (GCPs) - students have the option of taking a Global Challenge Pathway, which can either be taken as one 15-credit module at Levels 4, 5 and 6, or one 15-credit module at Levels 5 and 6 (except for the TESOL pathway). Information on GCPs is shown under the Level 6 modules below.*

### Level 5

At Level 5, students take 105 credits of compulsory modules. The remaining 15 credits may either be used to take a Global Challenge Pathway or one of the optional modules listed below.

<b>Compulsory modules</b>	<b>Module Code</b>	<b>Credits</b>	<b>Period</b>
Igneous and Metamorphic Petrology	ESC-20001	15	Semester 1
Environmental Impact Assessment: practical geographical and environmental skills	ESC-20108	15	Semester 1
Earth's Changing Landscapes	ESC-20110	15	Semester 1
Geological Field Skills	ESC-20126	30	Semester 1-2
Reconstructing Past Environments	ESC-20002	15	Semester 2
Water in the Environment	ESC-20100	15	Semester 2

<b>Optional modules</b>	<b>Module Code</b>	<b>Credits</b>	<b>Period</b>
Employability Training: Engaging with the Workplace	ESC-20092	15	Semester 1-2
Geoscience and Society	ESC-20037	15	Semester 2

### **Work Placement Year**

Students taking the 4-year with 'Work Placement Year' undertake their work placement between Year-2 and Year-3 of their degree programme. During the work placement year, students undertake a work placement with a geoscience-focused company or organisation. Students take the year-long, non-credit bearing module.

### **Level 6**

<b>Compulsory modules</b>	<b>Module Code</b>	<b>Credits</b>	<b>Period</b>
Dissertation	ESC-30047	30	Semester 1-2

<b>Optional modules</b>	<b>Module Code</b>	<b>Credits</b>	<b>Period</b>
Glaciers and Glacial Geomorphology	ESC-30006	15	Semester 1
Natural Hazards	ESC-30009	15	Semester 1
Global Environmental Change	ESC-30018	15	Semester 1
Economic Geology	ESC-30028	15	Semester 1
Applied GIS	ESC-30044	15	Semester 1
Reservoir Geology and Geophysics	ESC-30082	15	Semester 1
Extinction!	ESC-30106	15	Semester 1
Advanced Geographical Fieldwork	GEG-30033	30	Semester 1-2
Structure and Geodynamics	ESC-30008	15	Semester 2
Hydrological and Engineering Geology	ESC-30022	15	Semester 2
Coastal Environments	ESC-30027	15	Semester 2
Advanced Topics in Sedimentology	ESC-30034	15	Semester 2
Inspirational Landscapes	GEG-30014	15	Semester 2

### **Level 6 Module Rules**

Optional modules: students select THREE optional modules per semester:

- In semester 1, at least ONE module must be selected from the following Geology optional modules, ESC-30009: Natural Hazards; ESC-30028: Economic Geology; ESC-30082: Reservoir Geology and Geophysics, AND at least ONE module must be selected from the following Physical Geography optional modules, ESC-30006: Glaciers and Glacial Geomorphology; ESC-30018: Global Environmental Change; ESC-30044: Applied GIS; GEG-30033: Advanced Geographical Fieldwork (30-credit).
- In semester 2, at least ONE module must be selected from the following Geology optional modules, ESC-30008: Structure and Geodynamics; ESC-30022: Hydrological and Engineering Geology; ESC-30025: Micropalaeontology: Principles and Applications, ESC-30034: Advanced Topics in Sedimentology, AND at least ONE module must be selected from the following Physical Geography optional modules, ESC-30027: Coastal Environments; GEG-30014: Inspirational Landscapes.

### Global Challenge Pathways (GCPs)

Students have the option of taking a Global Challenge Pathway, which includes one 15-credit module at Levels 4, 5 and 6, or one 15-credit module at Levels 5 and 6. Students who started a Global Challenge Pathway at Level 4 will continue with the same pathway at Level 5. Students joining Global Challenge Pathways at Level 5 can join any pathway (except TESOL). Students at Level 6 will continue with the same Global Challenge Pathway they studied at Levels 4 and/or Level 5.

Global Challenge Pathways offer students the chance to fulfil an exciting, engaging route of interdisciplinary study. Choosing a pathway, students will be presented with a global issue or 'challenge' which directly relates to societal issues, needs and debates. They will be invited to take part in academic and external facing projects which address these issues, within an interdisciplinary community of students and staff. Students completing a Global Challenge Pathway will receive recognition on their degree certificate.

<p><b>Digital Futures</b></p>	<p>The Digital Futures pathway offers you the opportunity to take an active role in current debates, cutting-edge research, and projects with external partners, addressing both the exciting potential and the challenges of disruptive digital transformation across all spheres of life.</p> <p>Part of a diverse and interdisciplinary pathway community, you will engage in exciting, impactful collaborative project work in innovative formats on areas that matter most to you. Engaged in real-world scenarios as digital citizens, you will expand, deepen, and mobilise knowledge and skills to drive inclusive, empowering, and sustainable change at local and global levels.</p> <p><b>Level 4 Module: A digital life: challenges and opportunities (GCP-10005)</b></p> <p><b>Level 5 Module: Digital World - People, Spaces, and Data (GCP-20005)</b></p> <p><b>Level 6 Module: Digital Citizenship and Sustainable Futures (GCP-30005)</b></p>
<p><b>Climate Change &amp; Sustainability</b></p>	<p>Through the Climate Change &amp; Sustainability pathway you will develop the skills, understanding and drive to become agents of change to tackle climate change and wider sustainability challenges.</p> <p>You will hear from international partners to learn about climate change and sustainability in different international contexts; lead your own projects to drive real change in your communities; and be part of educating and supporting others to help achieve a more sustainable future.</p> <p><b>Level 4 Module: Climate Change and Sustainable Futures: Global Perspectives (GCP-10009)</b></p> <p><b>Level 5 Module: Climate Change and Sustainability: Action and Activism (GCP-20009)</b></p> <p><b>Level 6 Module: Skills for Sustainability (GCP-30009)</b></p>



<p><b>Social Justice</b></p>	<p>The Social Justice pathway is based upon a transformative methodology which centres the student's role as 'agents of change' to reflect upon decolonising and feminist, perspectives on social justice, to forge critical outputs to transform the Sustainable Development Goals.</p> <p>You will develop research and engagement skills with local, national, and international partners from Universities, NGOs, International Human Rights frameworks. You will engage with key societal challenges focused upon the Sustainable Development Goals, to develop an intersectional response from identity-based perspectives on race, gender, sexualities and disabilities. The pathway will allow you to monitor and critically evaluate policies and human rights treaties, and produce and disseminate digitally fluent, international and sustainable project findings.</p> <p><b>Level 4 Module: Reflections on Social Injustices, Past and Present (GCP-10003)</b></p> <p><b>Level 5 Module: Strategic Interventions for Social Justice (GCP-20003)</b></p> <p><b>Level 6 Module: Transforming Social Justice; Global Perspectives (GCP-30003)</b></p>
<p><b>Enterprise &amp; the Future of Work</b></p>	<p>In order to meet the challenges set out in the UN's Sustainable Development Goals we need to understand the power of enterprise and prepare for the future contexts of work, creativity and disruption. By providing you with the skills, knowledge and understanding of global challenges this pathway will prepare you to be part of future-facing solutions. This module will support you in developing creative, original thinking, allowing you to collaborate on projects that persuade and effect change, setting you up to thrive in future environments of work and innovation.</p> <p><b>Level 4 Module: Enterprise and the Future of Work (GCP-10007)</b></p> <p><b>Level 5 Module: Enterprise and the Future of Work: Collaborate to Innovate (GCP-20007)</b></p> <p><b>Level 6 Module: Enterprise and the Future of Work: Designing Change (GCP-30007)</b></p>
<p><b>Global Health Challenges</b></p>	<p>By taking the global health challenge pathway you will develop solutions to improve the health and quality of life for particular people and communities, engaging with these groups to co-design interventions.</p> <p>This pathway will provide you with skills that go beyond a focus on health and will allow you to develop your ability to work in a team and lead change in society. The knowledge, skills and work experience will complement your core degree and enhance your career opportunities and graduate aspirations.</p> <p><b>Level 4 Module: Key concepts and challenges in global health (GCP-10001)</b></p> <p><b>Level 5 Module: Using Evidence to Improve Global Health (GCP-20001)</b></p> <p><b>Level 6 Module: Working to Improve Global Health (GCP-30001)</b></p>

**Languages & Intercultural Awareness**

Communication within and across cultures is inseparable from language, and development of intercultural awareness can enable you to actively contribute to the shaping of an international future. The Language and Intercultural Awareness pathway allows you to engage in genuine interdisciplinary and international exchange and to understand and explore the link between language, culture and communication. Each of the strands we offer provides you with skills and direct experience for active engagement in working to face global challenges.

**The Language Specialist:** Become a specialist in one of our languages and graduate with a degree title that includes '... with competency in (Language)' or '... with advanced competency in (Language)'.

**The Language Taster:** Explore a new language every year.

**The Certificate in TESOL** (Teaching English to Speakers of Other Languages): **(NB: only available if starting from Level 4)** Enhance your undergraduate degree by studying the Trinity College Certificate in Teaching English to Speakers of Other Languages (TESOL). As an internationally recognised qualification, you can teach around the world, enabling you to travel whilst helping people develop their English Language Skills. You will also develop many transferable skills which will enhance your future employability.

**The Intercultural Explorer:** Through an interdisciplinary understanding of intercultural communication - as both an academic discipline and as a tool to promote and engage in global activity, you will explore the concept of culture. Module content and assessments allow you to examine in-depth the role of both culture and language in, for example, the UN sustainability goals.

**Modules available:**

**The Language Specialist:**

Any Semester 1 Language Module (the level at which you enter will be determined by your previous language learning experiences).

**The Language Taster:**

Any Semester 1 Language Module (the level at which you enter will be determined by your previous language learning experiences)

**The Certificate in TESOL (NB: only available if starting from Level 4):**

ENL-10053 TESOL 1

ENL-20007 TESOL 2

ENL-30009 TESOL 3

**The Intercultural Explorer:**

ENL-10057 The stories we live by

ENL-20009 Who do you think you are?

Information on Global Challenge Pathways can be found here:  
<https://www.keele.ac.uk/study/undergraduate/globalchallengepathways/>

## 9. Final and intermediate awards

Credits required for each level of academic award are as follows:

<b>Honours Degree</b>	360 credits	You will require at least 120 credits at levels 4, 5 and 6 You must accumulate at least 270 credits in your main subject (out of 360 credits overall), with at least 90 credits in each of the three years of study, to graduate with a named single honours degree in this subject.
<b>Diploma in Higher Education</b>	240 credits	You will require at least 120 credits at level 4 or higher and at least 120 credits at level 5 or higher
<b>Certificate in Higher Education</b>	120 credits	You will require at least 120 credits at level 4 or higher

**International Year option:** in addition to the above students must pass a module covering the international year in order to graduate with a named degree including the 'international year' wording. Students who do not complete, or fail the international year, will be transferred to the three-year version of the programme.

**Work Placement Year option:** in addition to the above students must pass a non-credit bearing module covering the work placement year in order to graduate with a named degree including the 'with Work Placement Year' wording. Students who do not complete, or fail the work placement year, will be transferred to the three-year version of the programme.

## 10. How is the Programme Assessed?

The wide variety of assessment methods used on this programme at Keele reflects the broad range of knowledge and skills that are developed as you progress through the degree programme. Teaching staff pay particular attention to specifying clear assessment criteria and providing timely, regular and constructive feedback that helps to clarify things you did not understand and helps you to improve your performance. Assessments on the course are based on hands-on, practical tasks where possible. We do not use 'traditional' exams as a method of assessment on our programmes. The following list is representative of the variety of assessment methods used on your programme:

- **Technical reports** allow you to demonstrate your ability to articulate ideas clearly and concisely in a format used commonly in industry. Technical reports also develop and demonstrate research and presentation skills (including appropriate scholarly referencing)
- **Laboratory reports** - structured proformas and full laboratory reports are formal summaries of work carried out in the laboratory and test your understanding of the practical aspects of the programme and develop the skills necessary to enable you to present and analyse your results
- **Class tests** taken either in the laboratory or online via the Keele Learning Environment (KLE) assess your subject knowledge and your ability to apply it in a more structured and focused way
- **Dissertations** enable you to explore in depth an area of particular interest through a substantial piece of focused research and writing, and demonstrate a deeper understanding of geological and physical geography issues
- **Field course exercises** allow you to demonstrate your understanding of geological and physical geography features encountered in the field. This might include the contents of your field notebook, field sketches and maps
- **Oral and poster presentations and reports** assess your subject knowledge and understanding and your ability to articulate this orally and graphically. Group work also tests your ability to work effectively as members of a team, and to reflect on these processes as part of your own personal development
- **Literature Syntheses** of other scholars' work test your ability to identify and summarise the key points of a text and to evaluate the quality of arguments and the evidence used to support them. They also help you provide a background context for your research project work
- **Portfolios** may consist of a range of different pieces of work but on a common theme to allow you to demonstrate your knowledge and understanding via a number of different formats

Marks are awarded for summative assessments designed to assess your achievement of learning outcomes. You will also be assessed formatively to enable you to monitor your own progress and to assist staff in identifying and addressing any specific learning needs. Feedback, including guidance on how you can improve the quality of your work, is also provided on all summative assessments within three working weeks of submission, unless there are compelling circumstances that make this impossible, and more informally in the course of tutorial and seminar discussions.

## 11. Contact Time and Expected Workload

This measure of contact time is intended to provide you with an indication of the type of activity you are likely to undertake during this programme. The data is compiled based on module choices and learning patterns of students on similar programmes in previous years. Every effort is made to ensure this data is a realistic representation of what you are likely to experience, but changes to programmes, teaching methods and assessment methods mean this data is representative and not specific.

Undergraduate courses at Keele contain an element of module choice; therefore, individual students will experience a different mix of contact time and assessment types dependent upon their own individual choice of modules. The figures below are an example of activities that a student may expect on your chosen course by year stage of study. Contact time includes scheduled activities such as: lecture, seminar, tutorial, project supervision, demonstration, practical classes and labs, supervised time in labs/workshop, fieldwork and external visits. The figures are based on 1,200 hours of student effort each year for full-time students.

## Activity

	<b>Scheduled learning and teaching activities</b>	<b>Guided independent Study</b>	<b>Placements</b>
<b>Year 1 (Level 4)</b>	37.1%	62.9%	0%
<b>Year 2 (Level 5)</b>	36.5%	61.2%	2.3%
<b>Year 3 (Level 6)</b>	34.4%	65.6%	0%

## 12. Accreditation

The Geology programmes are accredited by the Geological Society of London [www.geolsoc.org.uk](http://www.geolsoc.org.uk), which is the world's oldest geological society that was founded in 1807 by Royal Charter and is the UK national society for geoscience. It exists to promote the geosciences and the professional interests of UK geoscientists. The main aim of the accreditation scheme is to ensure that geology/geoscience degree courses are underpinned by well-maintained internal standards that satisfy the academic requirements of Fellowship of the Society and Chartered Geologist status.

If you successfully complete an accredited degree course you will normally qualify for admission to Fellowship of the Society and for the award of Chartered Geologist status after a specified period of professional development and relevant experience.

Accreditation status for the Geology programmes was awarded in 2007, followed by successful applications for reaccreditation in 2014 and 2020.

## 13. University Regulations

The University Regulations form the framework for learning, teaching and assessment and other aspects of the student experience. Further information about the University Regulations can be found at: <http://www.keele.ac.uk/student-agreement/>

A student who has completed a semester abroad will not normally be eligible to transfer onto the International Year option.

It is not possible to take both the Work Placement Year and the International Year option.

At this time there are no additional course regulations relating to accreditation. However, should these be required by the regulating body in the future, we might have to add programme regulations to maintain our accreditation. Should this be required we will inform you of any changes at the earliest opportunity.

## 14. Other Learning Opportunities

### Study Abroad (International Year)

A summary of the International Year, which is a potential option for students after completion of year 2 (Level 5), is provided in the Annex for the International Year.

## Other opportunities

### Fieldwork

Fieldwork is an essential part of training in geology and physical geography, and is intended to supplement and complement formal class teaching and develop the skills of observing and recording. It also establishes professional, social and cultural links outside the institution and develops an external dimension to the School's courses. The Geology and Physical Geography programme includes field excursions to classic areas within the British Isles, as well as overseas field courses to enable students to study the evolution of fundamentally different geological regimes and landscapes.

## 15. Additional Costs

### Field Course Costs

**COMPULSORY FIELD COURSES:** students undertake compulsory field courses as part of their studies - these are provided at no cost.

The University provides significant financial support for the compulsory fieldwork elements of the degree programme and the costs of travel and accommodation for compulsory field courses are fully paid for by the University up to and including Year 3. Students are responsible for their own subsistence.

**OPTIONAL FIELD COURSES:** In addition to compulsory field courses, the programme offers optional UK and overseas field trips as part of second and third-year modules. The cost of these trips is subsidised by the University but you will incur additional costs (e.g. due to flight costs). To help students manage their field course costs, the payments are spread over the course of the academic year in which you participate in the field course. The first instalment is non-refundable due to the need to pre-book accommodation etc. in advance. The costs of field courses are indicated at the start of the year, with details clearly communicated to students.

**INDEPENDENT RESEARCH PROJECT: ALL** students undertake an independent research project in their final year, which MAY include fieldwork. Students are responsible for organising their own transport and accommodation as well as paying any costs incurred whilst carrying out fieldwork. These costs are extremely variable as they are dependent on where the student carries out their project. Costs are minimal if the project work is undertaken in the students' local area.

**IMPORTANT:** Students are expected to have adequate clothing for field trips. We reserve the right to change the venues of field courses due to both cost and academic considerations. Some field courses are fully or partly catered for. Others are self-catered and students are expected to purchase meals (e.g., lunch and/or evening meal).

**The costs below are only for indicative purposes and correct at the time of printing:**

Activity	Estimated Cost
Field courses - compulsory	£0.00
Field courses - optional	£200.00 - £1,600.00
Equipment - waterproof and appropriate clothing and footwear for field courses	£200.00
<b>Total estimated additional costs</b> (maximum amount is based on a student attending all optional field courses as well as having to purchase all outdoor clothing)	£200.00 - £1,800

These costs have been forecast by the University as accurately as possible but may be subject to change as a result of factors outside of our control (for example, increase in costs for external services). Forecast costs are reviewed on an annual basis to ensure they remain representative. Where additional costs are in direct control of the University we will ensure increases do not exceed 5%.

As to be expected there will be additional costs for inter-library loans and potential overdue library fines, print and graduation. We do not anticipate any further costs for this programme.

## 16. Annex - International Year

### Geology and Physical Geography with International Year

<b>International Year Programme</b>
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Students registered for this Single Honours programme may either be admitted for or apply to transfer during their period of study at Level 5 to the International Year option. Students accepted onto this option will have an extra year of study (the International Year) at an international partner institution after they have completed Year 2 (Level 5) at Keele.

Students who successfully complete both the second year (Level 5) and the International Year will be permitted to progress to Level 6. Students who fail to satisfy the examiners in respect of the International Year will normally revert to the standard programme and progress to Level 6 on that basis. The failure will be recorded on the student's final transcript.

Study at Level 4, Level 5 and Level 6 will be as per the main body of this document. The additional detail contained in this annex will pertain solely to students registered for the International Year option.

### **International Year Programme Aims**

In addition to the programme aims specified in the main body of this document, the international year programme of study aims to provide students with:

1. Personal development as a student and a researcher with an appreciation of the international dimension of their subject
2. Experience of a different culture, academically, professionally and socially

### **Entry Requirements for the International Year**

Students may apply to the 4-year programme during Level 5. Admission to the International Year is subject to successful application, interview and references from appropriate staff.

The criteria to be applied are:

- Academic Performance (an average of 55% across all modules in Semester 1 at Level 5 is normally required. Places on the International Year are then conditional on achieving an average mark of 55% across all Level 5 modules. Students with up to 15 credits of re-assessment who meet the 55% requirement may progress to the International Year. Where no Semester 1 marks have been awarded performance in 1st year marks and ongoing 2nd year assessments are taken into account)
- General Aptitude (to be demonstrated by application for study abroad, interview during the 2nd semester of year 2 (Level 5), and by recommendation of the student's Academic Mentor, 1st and 2nd year tutors and programme director)

Students may not register for both an International Year and a Placement Year.

### **Student Support**

Students will be supported whilst on the International Year via the following methods:

- Phone or Skype conversations with Study Abroad tutor, in line with recommended Academic Mentoring meeting points.
- Support from the University's Global Education Team

### **Learning Outcomes**

In addition to the learning outcomes specified in the main text of the Programme Specification, students who complete a Keele undergraduate programme with International Year will be able to:

1. Describe, discuss and reflect upon the cultural and international differences and similarities of different learning environments
2. Discuss the benefits and challenges of global citizenship and internationalisation
3. Explain how their perspective on their academic discipline has been influenced by locating it within an international setting.
4. Design, plan and critically evaluate a practical investigation within geology and physical geography, record relevant information accurately and systematically and be able to reflect upon the data in a critical manner.
5. Integrate, apply and develop fundamental geology and physical geography principles to describe and explain phenomena and solve problems in the context of selected topics within geology and physical geography.

These learning outcomes will all be assessed by the submission of a satisfactory individual learning agreement, the successful completion of assessments at the partner institution and the submission of the reflective portfolio element of the international year module.

### **Regulations**

Students registered for the International Year are subject to the programme-specific regulations (if any) and the University regulations. In addition, during the International Year, the following regulations will apply:

Students undertaking the International Year must complete 120 credits, which must comprise *at least 40%* in the student's discipline area.

This may impact on your choice of modules to study, for example you will have to choose certain modules to ensure you have the discipline specific credits required.

Students are barred from studying any module with significant overlap to the Level 6 modules they will study on their return. Significant overlap with Level 5 modules previously studied should also be avoided.

### **Additional costs for the International Year**

Tuition fees for students on the International Year will be charged at 15% of the annual tuition fees for that year of study, as set out in Section 1. The International Year can be included in your Student Finance allocation, to find out more about your personal eligibility see: [www.gov.uk](http://www.gov.uk)

Students will have to bear the costs of travelling to and from their destination university, accommodation, food and personal costs. Depending on the destination they are studying at additional costs may include visas, study permits, residence permits, and compulsory health checks. Students should expect the total costs of studying abroad be greater than if they study in the UK, information is made available from the Global Education Team throughout the process, as costs will vary depending on destination.

Students who meet external eligibility criteria may be eligible for grants as part of this programme. Students studying outside of this programme may be eligible income dependent bursaries at Keele.

Students travel on a comprehensive Keele University insurance plan, for which there are currently no additional charges. Some Governments and/or universities require additional compulsory health coverage plans; costs for this will be advised during the application process.

## **17. Annex - Work Placement Year**

### **Geology and Physical Geography with Work Placement Year**

#### **Work Placement Year summary**

Students registered for this programme may either be admitted for or apply to transfer during their studies to the 'with Work Placement Year' option (NB: for Combined Honours students the rules relating to the work placement year in the subject where the placement is organised are to be followed). Students accepted onto this programme will have an extra year of study (the Work Placement Year) with a relevant placement provider after they have completed Year 2 (Level 5) at Keele.

Students who successfully complete both the second year (Level 5) and the Work Placement Year will be permitted to progress to Level 6. Students who fail to satisfactorily complete the Work Placement Year will normally revert to the 3-year programme and progress to Level 6 on that basis. The failure will be recorded on the student's final transcript.

Study at Level 4, Level 5 and Level 6 will be as per the main body of this document. The additional detail contained in this annex will pertain solely to students registered for the Work Placement Year option.

### **Work Placement Year Programme Aims**

In addition to the programme aims specified in the main body of this document, the Work Placement Year aims to provide students with:

1. the opportunity to carry out a long-term work-based learning experience in the geological sector
2. enhanced employability skills training

### **Entry Requirements for the Work Placement Year**

Admission to the Work Placement Year is subject to successful application, interview and references from appropriate staff. Students have the opportunity to apply directly for the 4-year 'with work placement year' degree programme, or to transfer onto the 4-year programme at the end of Year-1 and in Year-2 at the end of Semester 1. Students who are initially registered for the 4-year degree programme may transfer onto the 3-year degree programme at any point in time, prior to undertaking the year-long work placement. Students who fail to pass the work placement year, and those who fail to meet the minimum requirements of the work placement year module, (\* or equivalent, work placement), will be automatically transferred onto the 3-year degree programme.

\* We recommend where possible students undertake a placement of between 9 - 12 months on a full-time basis to maximize academic and personal growth. However, the Faculty of Natural Sciences Work / Professional Placement Year mandates a minimum of 24 weeks in duration, ideally on a full-time basis, but no less than 21 hours per week. This enables those undertaking an unpaid placement to work on a part-time basis alongside their placement.

The criteria to be applied are:

- A good University attendance record and be in 'good academic standing'.
- Academic Performance (an average of 50% across all modules in Semester 1 at Level 5 is normally required. Places on the Work Placement Year are then conditional on achieving an average mark of 50% across all Level 5 modules. Students with up to 15 credits of re-assessment who meet the 50% requirement may progress to the Work Placement Year. Where no Semester 1 marks have been awarded performance in 1st year marks and ongoing 2nd year assessments are taken into account)
- General Aptitude (to be demonstrated by application(s) to relevant placement providers with prior agreement from the Programme Lead, interview during the 2nd semester of year 2 (Level 5), and by recommendation of the student's Academic Mentor, 1st and 2nd year tutors and Programme Lead)
- Students undertaking work placements will be expected to complete a Health and Safety checklist prior to commencing their work experience and will be required to satisfy the Health and Safety regulations of the company or organisation at which they are based.
- (*International students only*) Due to visa requirements, it is not possible for international students who require a Tier 4 Visa to apply for direct entry onto the 4-year with Work Placement Year degree programme. Students wishing to transfer onto this programme should discuss this with student support, the academic tutor for the work placement year, and the Programme Lead. Students should be aware that there are visa implications for this transfer, and it is the student's responsibility to complete any and all necessary processes to be eligible for this programme. There may be additional costs, including applying for a new Visa from outside of the UK for international students associated with a transfer to the work placement programme.

Students may not register for both an International Year and a Work Placement Year.

### **Student Support**



Students will be supported whilst on the Work Placement Year via the following methods:

- Regular contact between the student and a named member of staff who will be assigned to the student as their University supervisor. The University supervisor will be in regular contact with the student throughout the year, and be on hand to provide advice (pastoral or academic) and liaise with the Placement supervisor on the student's behalf if required.
- Two formal contacts with the student during the placement year: the University supervisor will visit the student in their placement organization at around the 5 weeks after placement has commenced, and then visit again (or conduct a telephone/video call tutorial) at around 15 weeks into the placement.
- Weekly supervision sessions will take place with the placement supervisor (or his/her nominee) throughout the duration of the placement.

### **Learning Outcomes**

In addition to the learning outcomes specified in the main text of the Programme Specification, students who complete the 'with Work Placement Year' option will be able to:

1. critically evaluate their learning from the work placement
2. explain how the professional environmental sector operates and what skills are needed to develop their career
3. apply academic theory learnt as part of the taught degree to real situations in the work place
4. evaluate their own employability skills (via a SWOT Analysis) and create Intended Learning Outcomes for their placement in order to develop the skills areas which they have identified as being weak or needing further enhancement
5. develop, through practice in the work place, the work-related skills identified through their SWOT analysis and Intended Learning Outcomes

These learning outcomes will be assessed through the non-credit bearing Work Placement Year module (ESC-30116) which involves:

1. Mid-Placement Portfolio (SWOT analysis & Action Plan + Evaluation by Host) [30%]
2. Final Placement Portfolio (Reflective Diary + Evaluation by Host) [70%]

### **Regulations**

Students registered for the 'with Work Placement Year' option are subject to programme-specific regulations (if any) and the University regulations. In addition, during the Work Placement Year, the following regulations will apply:

- Students undertaking the Work Placement Year must successfully complete the zero-credit rated 'Work Placement Year' module (ESC-30116)
- In order to ensure a high quality placement experience, each placement agency will sign up to a placement contract (analogous to a service level agreement).
- Once a student has been accepted by a placement organisation, the student will make a pre-placement visit and a member of staff identified within the placement contract will be assigned as the placement supervisor. The placement supervisor will be responsible for ensuring that the placement experience meets the agreed contract agreed with the University.
- The placement student will also sign up an agreement outlining his/her responsibilities in relation to the requirements of each organisation.
- If a student chooses to start their work placement prior to the September of their placement year, then the student must ensure that they negotiate time off to attend any relevant field courses and fieldwork. Failure to attend field-courses or undertake fieldwork due to a work placement position will not be considered as exceptional circumstances.

Students will be expected to behave professionally in terms of:

- (i) conforming to the work practices of the organisation; and
- (ii) remembering that they are representatives of the University and their actions will reflect on the School and have an impact on that organisation's willingness (or otherwise) to remain engaged with the placement.

### **Additional costs for the Work Placement Year**

Tuition fees for students on the Work Placement Year will be charged at 20% of the annual tuition fees for that year of study, as set out in Section 1. The Work Placement Year can be included in your Student Finance allocation; to find out more about your personal eligibility see: [www.gov.uk](http://www.gov.uk)

Students will have to bear the costs of travelling to and from their placement provider, accommodation, food and personal costs. Depending on the placement provider additional costs may include parking permits, travel and transport, suitable clothing, DBS checks, and compulsory health checks.

A small stipend may be available to students from the placement provider during the placement but this will need to be explored on a placement-by-placement basis as some organisations, such as charities, may not have any extra money available. Students should budget with the assumption that their placement will be unpaid.

Eligibility for student finance will depend on the type of placement and whether it is paid or not. If it is paid, this is likely to affect student finance eligibility, however if it is voluntary and therefore unpaid, should not affect student finance eligibility. Students are required to confirm eligibility with their student finance provider.

International students who require a Tier 4 visa should check with the Immigration Compliance team prior to commencing any type of paid placement to ensure that they are not contravening their visa requirements.

## Version History

### This document

**Date Approved:** 14 June 2024

### *What's Changed*

Removed ESC-30025

### Previous documents

Version No	Year	Owner	Date Approved	Summary of and rationale for changes
1	2023/24	STUART EGAN	08 February 2023	
1	2022/23	STUART EGAN	28 March 2022	Removal of optional module ESC-30020 Water Resources
1	2021/22	STUART EGAN		