

Programme Specification: Undergraduate

For students starting in Academic Year 2023/24

1. Course Summary

Names of programme and award title(s)	M.Geology - Single Honours Route M.Geology - Single Honours Route with International Year (see Annex for details) M.Geology - Single Honours Route with Work Placement Year (see Annex for details)
Award type	Single Honours (Masters)
Mode of study	Full-time
Framework of Higher Education Qualification (FHEQ) level of final award	Level 7
Normal length of the programme	4 years; 5 years with either the International Year or Placement Year between years 2 and 3
Maximum period of registration	The normal length as specified above plus 3 years
Location of study	Keele Campus
Accreditation (if applicable)	The Geology courses are accredited by the Geological Society of London. For further details see the section on Accreditation.
Regulator	Office for Students (OfS)
Tuition Fees	<p>UK students:</p> <p>Fee for 20223/24 is £9,250*</p> <p>International students:</p> <p>Fee for 2023/24 is £18,800**</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 an Integrated Masters Programme?

Integrated master's awards - which are common in science, mathematics and engineering - are delivered through a programme that combines study at the level of a bachelor's degree with honours with study at master's level. As such, a student graduates with a master's degree after a single four-year programme of study. The integrated master's programme described in this document builds upon the first two years of the Single Honours Geology by adding third and fourth years in which students study modules in Geology at an advanced level. This will result in a degree title of *Master in Geology (Geology)*.

3. Overview of the Programme

M.Geology is a four-year undergraduate Integrated Masters course primarily designed for those considering a career in Earth Science. The course aims to provide an in-depth experience of many important geoscience topics along with training in research techniques, laboratory methods, computing techniques and other transferable skills. In particular, modules studied in the third and fourth years prepare students for work in industry, commerce or academia. The M.Geology degree programme may be taken by students studying Geology with any natural sciences subject at Levels 4 & 5, or by those students taking Single Honours

Geology. Discipline-specific modules at Levels 6 & 7 are complemented by research-driven modules, and enhanced subject-specific skills.

4. Aims of the programme

The broad aims of the programme are to:

- enable students to specialise in geology via a four-year Integrated Masters programme to obtain a more in-depth experience of the subject, as well as gaining additional experience in independent research project work and key skills
- provide a broad-based introduction to geology at Level 4 that does not require previous knowledge of geology topics, and to utilise the material covered at Level 4 to lay the foundations for detailed study of geological concepts at Levels 5, 6 & 7
- 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 surface
- provide an appreciation of the history of the Earth over geological time scales
- promote an awareness of the dual context of the subject in society, as well as providing knowledge and understanding of both the exploitation and the conservation of the Earth's resources
- provide an appreciation of the scientific fundamentals in geology and an adequate knowledge base for a career in research or industry
- provide Masters-level training in research, laboratory and computing techniques and to instil a comprehensive understanding of techniques applicable to their own research and advanced scholarship
- 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 and a Masters level investigative- and equipment-based field course
- 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 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 the geosciences
- the different components of the Earth system and how they interact to change the physical world and their impact on society
- different methods used in the observation, analysis, interpretation and representation of geological and geophysical information
- how the geology of a field study area can be used to illustrate and deepen understanding of the geological 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 aspects of human impacts on the physical environment
- natural hazards and their impacts on society
- applications of geology 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 geophysical information in the field, including the production and interpretation of geological maps
- plan, design and execute an independent piece of project work in the geological sciences, including acquisition and recording of geological 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 and laboratory-based methods for the collection and analysis of geological and geophysical information
- combine and interpret different types of geological and geophysical evidence using quantitative and qualitative approaches
- appreciate the issues of sample selection, accuracy, precision and uncertainty during collection, recording and analysis of geoscience 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

Additional Opportunities

Engagement with this programme will enable you to develop your intellectual, personal and professional capabilities, including independent thinking, synthesizing information, creative problem solving, communicating clearly, and appreciating the social, environmental and global implications of your studies and activities. You will be able to enrich your studies and make yourself more employable after graduation by taking advantage of the whole host of additional opportunities that we offer to help you develop your skills and experiences. For example, you could learn a second language, study abroad or volunteer in the local area. Further information is available at: <https://www.keele.ac.uk/study/undergraduate/additionalopportunities/>

Our educational programme and learning environment is designed to help you to become a well-rounded graduate who is capable of making a positive and valued contribution in a complex and rapidly changing world, whichever spheres of life you engage in after your studies are completed.

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
- Group 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)

The directed reading, on-line learning materials and lecture slides available in advance on the KLE help you prepare for lectures and the practical classes reinforce concepts learned in lectures through problem solving and practical application of geological techniques. Some classes are taught in workshop format integrating both lecture and practical material. Fieldwork provides a deep, immersive learning experience that puts geological processes and their products into their four dimensional context. The independent mapping project provides the opportunity to bring together and demonstrate proficiency in all areas of geology.

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 enable students 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, Readers, Senior Lecturers, Lecturers and Research and Teaching Fellows, who between them have expertise and interests in all major areas of geology as well as

complementary vocational disciplines such as computing and forensic science. In addition, members of the Geography and Environmental lecturing staff also contribute to the Geology degree programmes.

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 geoscience education and/or have played an active role in the promotion of UK geoscience activities (e.g. via membership of Geological Society committees). A number of members of staff are Fellows/Senior Fellows of the Higher Education Academy (F.H.E.A.) and one has an MA in Teaching and Learning. Many have professional qualifications such as Fellow of the Geological Society (F.G.S.), Chartered Geologist (C.Geol), European Geologist (EurGeol), Fellow of the Royal Astronomical Society (F.R.A.S.), as well as others. Members of Geology staff have also won both group and individual Keele Teaching and Learning Excellence Awards.

The University will attempt to minimise changes to our core teaching teams, as 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 changes, 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 M.Geology Integrated Masters programme is modular in structure. The programme provides a broad-based first and second year followed by more specialised third year and fourth year studies.

We assume no prior expertise in Geology, and begin with introductory modules that provide a platform from which students can develop their knowledge, understanding and skills. The first two years are an introduction in which students acquire essential academic skills and a foundation of knowledge of the underlying concepts and principles of the subject. 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. The fourth year focuses on a masters level independent research project of your choosing, with other modules supporting this research.

There are three 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 limited choice of what to study from a list of modules;
- Global Challenge Pathways (students studying at Level 6 in 2023/24 may take electives instead) - a choice of modules from different subject areas within the University that count towards the overall credit requirement but not the number of subject-related credits.

Students at Level 4 and Level 5 in 2023/24 have the option of taking a Global Challenge Pathway, which includes one 15-credit module in each year of the degree. Information about Global Challenge Pathways can be found after the module lists for Level 5.

M. Geology is a four-year undergraduate integrated master's course. Single Honours Geology taken in Levels 4 and 5 or Combined Honours Geology is taken in Levels 4 and 5 in combination with a Natural Sciences subject. Only Geology modules are taken at Levels 6 and 7.

A summary of the total credit requirements per year is as follows, with a minimum of 90 subject credits (compulsory plus optional) required for each year.

For further information on the content of modules currently offered please visit:
<https://www.keele.ac.uk/recordsandexams/modulecatalogue/>

Year	Compulsory	Optional		Electives	
		Min	Max	Min	Max
Level 4	105	0	15	0	15
Level 5	105	0	15	0	15
Level 6	45	60	75	0	15
Level 7	75	45	45	0	0

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
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
Geoscience Data Interpretation, Analysis and Visualisation	ESC-10047	15	Semester 2
The Earth System	ESC-10048	15	Semester 2
Stratigraphy and Palaeontology	ESC-10076	15	Semester 2

Optional modules	Module Code	Credits	Period
Science & Society	NAT-10001	15	Semester 1-2
Climate Change: The Scientific and Societal Context	ESC-10066	15	Semester 2

NB: Global Challenge Pathways (GCPs) - students at Level 4 and Level 5 in 2023/24 have the option of taking a Global Challenge Pathway, which includes one 15-credit module in each year of the degree. Information on GCPs is shown under the Level 5 modules below.

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) or Teaching English to Speakers of Other Languages (TESOL) (Semesters 1 and 2) module (ENL-10053).

If you choose a Modern Language, you can add a Semester 2 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 GCP the following academic year.

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 the optional modules listed below.

Compulsory modules	Module Code	Credits	Period
Igneous and Metamorphic Petrology	ESC-20001	15	Semester 1
Palaeoclimatology and Quaternary Studies	ESC-20036	15	Semester 1
Geological Field Skills	ESC-20126	30	Semester 1-2
Reconstructing Past Environments	ESC-20002	15	Semester 2
Geoscience and Society	ESC-20037	15	Semester 2
Geochemistry	ESC-20064	15	Semester 2

Optional modules	Module Code	Credits	Period
Employability Training: Engaging with the Workplace	ESC-20092	15	Semester 1-2

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 (minimum 30 weeks full time (1,050 hours) or equivalent) with a geologically-focussed company or organisation. Students take the year-long, non-credit bearing module.

Global Challenge Pathways (GCPs)

Students at Level 4 and Level 5 in 2023/24 have the option of taking a Global Challenge Pathway, which includes one 15-credit module in each year of the degree. Students at Level 5 will continue the Global Challenge Pathway they started at Level 4.

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>Digital Futures</p>	<p>The Digital Futures pathway offers you the opportunity to become an active contributor to 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. Engaged in real-world scenarios, you will use digital technology and creativity to promote inclusive, empowering, and sustainable change at local and global levels.</p> <p>Level 4 Module: A digital life: challenges and opportunities (GCP-10005)</p> <p>Level 5 Module: Digital World - People, Spaces, and Data (GCP-20005)</p>
<p>Climate Change & Sustainability</p>	<p>Through the Climate Change & 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 work with international partners to explore climate change and sustainability in different international contexts; lead your own projects to drive real change in your communities; and be part of educating others to help achieve a more sustainable future.</p> <p>Level 4 Module: Climate Change and Sustainable Futures: Global Perspectives (GCP-10009)</p> <p>Level 5 Module: Climate Change and Sustainability: Action and Activism (GCP-20009)</p>
<p>Social Justice</p>	<p>Students on this pathway will embark on a reflective journey drawing upon decolonising, feminist, and ethical perspectives on social justice, forging transformative outputs as agents of change.</p> <p>You will enter a dialogue with local, national, and international partners from Universities, NGOs, International Human Rights Committees. You will engage with key societal challenges, for example Covid 19 as a social crisis with impact on gender and racial identities. 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>Level 4 Module: Reflections on Social Injustices, Past and Present (GCP-10003)</p> <p>Level 5 Module: Strategic Interventions for Social Justice (GCP-20003)</p>
<p>Enterprise & the Future of Work</p>	<p>If we are to achieve the promise of Sustainable Development Goals, solve the climate crisis and take advantage of the changes that the digital revolution provide, we need to understand the power of enterprise and prepare for future contexts of work, creativity and disruption.</p> <p>Supporting you to be part of future-facing solutions, this pathway will give you the ability to make judgements on the utilisation of resources, labour and capital. It 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>Level 4 Module: Enterprise and the Future of Work (GCP-10007)</p> <p>Level 5 Module: Enterprise and the Future of Work: Collaborate to Innovate (GCP-20007)</p>
<p>Global Health Challenges</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>Level 4 Module: Key concepts and challenges in global health (GCP-10001)</p> <p>Level 5 Module: Using Evidence to Improve Global Health (GCP-20001)</p>

Languages & Intercultural Awareness	<p>An understanding of language and culture opens the doorway to understanding what happens, why it happens and how you can make a difference. Why learn Russian now? How will an understanding of intercultural values impact on global development? How can you use English to work your way around the world? Importantly - how do language and culture impact on the UN Sustainability Goals?</p> <p>The Languages and Intercultural Awareness pathway offers you four distinct strands.</p> <p>The Language Specialist: Become a specialist in one of our languages and graduate with a degree title that includes '... with competency in (Language)'.</p> <p>The Language Taster: Explore a new language every year</p> <p>The Certificate in TESOL (Teaching English to Speakers of Other Languages): Train to teach English as a Foreign Language, gain a globally recognised teaching qualification and work with asylum seekers and refugees.</p> <p>The Intercultural Explorer: Explore cultural practices around the world and discover how the power of language and culture can be forces for breaking down barriers and achieving intercultural understanding, but how they can also be used to create political and social barricades.</p> <p>Modules available:</p> <p>The Language Specialist:</p> <p>Any Semester 1 Language Module (the level at which you enter will be determined by your previous language learning experiences).</p> <p>The Language Taster:</p> <p>Any Semester 1 Language Module (the level at which you enter will be determined by your previous language learning experiences)</p> <p>The Certificate in TESOL:</p> <p>ENL-10053 TESOL 1</p> <p>ENL-20007 TESOL 2</p> <p>The Intercultural Explorer:</p> <p>ENL-10057 The stories we live by</p> <p>ENL-20009 Who do you think you are?</p>
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Information on Global Challenge Pathways can be found here:
<https://www.keele.ac.uk/study/undergraduate/globalchallengepathways/>

Language modules

You can enrol on the continuing Modern Language module [more information available at this [link](#)] (Semester 1 only) or the continuing TESOL (Semesters 1 and 2) module (ENL-20007).

If you choose a Modern Language, you can add a Semester 2 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 GCP the following academic year.

Level 6

Compulsory modules	Module Code	Credits	Period
Economic Geology	ESC-30028	15	Semester 1
Geoscience: Independent Field Project - ISP	ESC-30032	30	Semester 1-2

Optional modules	Module Code	Credits	Period
Natural Hazards	ESC-30009	15	Semester 1
Global Environmental Change	ESC-30018	15	Semester 1
Reservoir Geology and Geophysics	ESC-30082	15	Semester 1
Extinction!	ESC-30106	15	Semester 1
Structure and Geodynamics	ESC-30008	15	Semester 2
Hydrological and Engineering Geology	ESC-30022	15	Semester 2
Micropalaeontology: Principles and Applications	ESC-30025	15	Semester 2
Coastal Environments	ESC-30027	15	Semester 2
Advanced Petrology and Structural Geology Field Course	ESC-30030	15	Semester 2
Volcanic and Magmatic Processes	ESC-30033	15	Semester 2
Advanced Topics in Sedimentology	ESC-30034	15	Semester 2

Level 6 Module Rules

1. Select a field course module, either ESC-30030 or ESC-30033
2. Optional modules: two modules in semester 1 and two modules in semester (total of four modules). One of the semester 1 option modules can be replaced by an elective module.

Language modules: You can enrol on a Modern Language module (Semester 1 or Semester 2).

Level 7

Compulsory modules	Module Code	Credits	Period
Literature Synthesis	ESC-40003	15	Semester 1
Research Project	ESC-40004	15	Semester 1-2
Research in Context	ESC-40005	15	Semester 1-2
Research Report	ESC-40006	15	Semester 1-2
Spatial Geoscience Data Analysis	ESC-40007	15	Semester 1-2

Optional modules	Module Code	Credits	Period
MGeoscience: Natural Hazards	ESC-40015	15	Semester 1
MGeoscience: Glaciers and Glacial Geomorphology	ESC-40017	15	Semester 1
MGeoscience: Global Environmental Change	ESC-40018	15	Semester 1
MGeoscience: Economic Geology	ESC-40026	15	Semester 1
Reservoir Geology and Geophysics (Masters)	ESC-40073	15	Semester 1
MGeoscience: Hydrological and Engineering Geology	ESC-40020	15	Semester 2
MGeoscience: Micropalaeontology: Princp and Apps	ESC-40023	15	Semester 2
MGeoscience: Structure and Geodynamics	ESC-40024	15	Semester 2
MGeoscience: Coastal Environments	ESC-40040	15	Semester 2

Level 7 Module Rules

1. Select one option module in semester 1 and two in semester 2 (i.e. total of three modules).
2. Students cannot take a level 7 option module if they have already taken the level 6 equivalent.

Learning Outcomes

The table below sets out what students learn in the programme and the modules in which that learning takes place. Details of how learning outcomes are assessed through these modules can be found in module specifications.

Level 4

In Year 1 (Level 4) and Year 2 (Level 5) these learning outcomes are achieved in the compulsory modules which all students are required to take. Some of these outcomes may also be achieved or reinforced in elective modules together with other outcomes not stated here. In Year 3 (Level 6) the stated outcomes are achieved by taking any of the modules offered in each semester.

Subject Knowledge and Understanding	
Learning Outcome	Module in which this is delivered
Describe underlying concepts and principles in Geology, and be able to evaluate and interpret these.	Earth Structure - ESC-10074 Stratigraphy and Palaeontology - ESC-10076 Minerals and Rocks - ESC-10070
Present, evaluate, and interpret Geological information.	Minerals and Rocks - ESC-10070 Earth Structure - ESC-10074 Geoscience Data Interpretation, Analysis and Visualisation - ESC-10047 Stratigraphy and Palaeontology - ESC-10076
Use basic geological theories and concepts to develop arguments, make judgements, and evaluate different approaches to solving problems.	All Level 4 modules
Communicate results accurately and reliably, with structured and coherent arguments.	All Level 4 modules

Level 5

Subject Knowledge and Understanding	
Learning Outcome	Module in which this is delivered
Describe and critically evaluate well-established geological principles, their development, limits of knowledge, influence on analyses and interpretations.	Geochemistry - ESC-20064 Igneous and Metamorphic Petrology - ESC-20001 Reconstructing Past Environments - ESC-20002
Describe in detail the main methods of geological enquiry.	Igneous and Metamorphic Petrology - ESC-20001 Reconstructing Past Environments - ESC-20002 Geochemistry - ESC-20064
Apply underlying geological concepts and principles beyond first context.	Geochemistry - ESC-20064 Palaeoclimatology and Quaternary Studies - ESC-20036 Igneous and Metamorphic Petrology - ESC-20001 Reconstructing Past Environments - ESC-20002 Geoscience and Society - ESC-20037
Critically evaluate different approaches to solving geological problems.	Igneous and Metamorphic Petrology - ESC-20001 Geoscience and Society - ESC-20037 Palaeoclimatology and Quaternary Studies - ESC-20036 Reconstructing Past Environments - ESC-20002 Geochemistry - ESC-20064
Use range of key and established geological techniques for critical analysis.	Igneous and Metamorphic Petrology - ESC-20001 Geoscience and Society - ESC-20037 Geochemistry - ESC-20064 Reconstructing Past Environments - ESC-20002
Communicate effectively to specialist and non-specialist audiences.	Employability Training: Engaging with the Workplace - ESC-20092 Geoscience and Society - ESC-20037 Palaeoclimatology and Quaternary Studies - ESC-20036
Demonstrate skills to exercise personal responsibility and decision-making.	Employability Training: Engaging with the Workplace - ESC-20092 Geological Field Skills - ESC-20126
Use literature searching and literature synthesis skills	Geological Field Skills - ESC-20126
Develop enhanced awareness of procedures for personal career development.	Geological Field Skills - ESC-20126 Employability Training: Engaging with the Workplace - ESC-20092

Level 6

Subject Knowledge and Understanding	
Learning Outcome	Module in which this is delivered
Describe coherently and systematically key aspects of Geology informed by ideas at the forefront of the subject.	All Level 6 modules
Devise and sustain arguments, solve problems, using ideas and techniques, some of which are at the forefront of the subject.	All Level 6 modules
Describe and comment upon particular aspects of current geological research and advanced scholarship.	All Level 6 modules
Critically evaluate geological arguments, assumptions, abstract concepts and data (may be incomplete), to make judgements, to frame questions to achieve a solution or identify a range of solutions to a problem.	All Level 6 modules
Undertake further professional (or equivalent) training.	All Level 6 modules
Communicate information, ideas, problems, and solutions to both specialist and non-specialist audiences.	All Level 6 modules
Exercise initiative and decision-making in complex and unpredictable contexts.	Geoscience: Independent Field Project - ISP - ESC-30032
Deploy established techniques of geological analysis and enquiry to review, consolidate, extend and apply own knowledge and understanding, and to initiate and carry out projects.	All Level 6 modules

Level 7

Subject Knowledge and Understanding	
Learning Outcome	Module in which this is delivered
Develop a systematic understanding of knowledge, and a critical awareness of current problems and/or new insights in Geoscience, much of which is at, or informed by, the forefront of the subject or area of professional practice.	All Level 7 modules
Articulate and evaluate critically a comprehensive understanding of techniques applicable to own research / advanced scholarship, and a conceptual understanding of current research and advanced scholarship in the discipline.	Research Report - ESC-40006 Research in Context - ESC-40005 Research Project - ESC-40004
Show self-direction and originality in tackling and solving problems, and act autonomously in planning and implementing tasks at a professional or equivalent level.	All Level 7 modules

9. Final and intermediate awards

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

Integrated Master's Degree	480 credits	You will require at least 120 credits at levels 4, 5, 6 and 7
Honours Degree	360 credits	You will require at least 120 credits at levels 4, 5 and 6. You must accumulate at least 270 credits in Geology (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 Geology.
Diploma in Higher Education	240 credits	You will require at least 120 credits at level 4 or higher and at least 120 credits at level 5 or higher
Certificate in Higher Education	120 credits	You will require at least 120 credits at level 4 or higher

M.Geology with International Year: in addition to the above students must pass a module covering the international year in

order to graduate with a named degree in M.Geology with International Year. Students who do not complete, or fail the international year, will be transferred to the four-year Geology programme.

M.Geology with Work Placement Year: in addition to the above students must pass a non-credit bearing module covering the placement year in order to graduate with a named degree in M.Geology with Work Placement Year. Students who do not complete, or fail the placement year, will be transferred to the four-year Geology 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. 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 in the geological 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 geological 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 geological 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 issues
- **Field course exercises** allow you to demonstrate your understanding of geological features encountered in the field. This might include the contents of your field notebook, field sketches, geological logs 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 estimation 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

	Scheduled learning and teaching activities	Guided independent Study	Placements
Year 1 (Level 4)	29-34%*	66-71%	0%
Year 2 (Level 5)	44%	56%	0%
Year 3 (Level 6)	28%	72%	0%
Year 4 (Level 7)	23%	77%	0%

*depending on the pathway

12. Accreditation

The course equivalent to M.Geology has been accredited by the Geological Society of London 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 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 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/>

Levels 6 and 7 of integrated master's programmes are governed by Regulation C6: <https://www.keele.ac.uk/regulations/regulation1f/>

Transfer options

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.

(International students only) Due to UK Home Office Visa (UKVI) restrictions, students who enrol on an integrated master's programme are not able to transfer to an alternative programme without the change meeting UKVI requirements. Where students wish to take an exit award of a Bachelor's Degree at the level 6 boards they are able to do so, but it is recommended to speak with Immigration Compliance and Support (visa@keele.ac.uk) before taking this option as this affects current and future Visa options.

All other students who are considering a course change or find themselves in circumstances where they need to change will need to speak to Immigration Compliance and Support (Student Services Centre) (visa@keele.ac.uk) first to check eligibility and review the consequences of the transfer and the timings of a new Visa application from outside the UK.

Accreditation

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. What are the typical admission requirements for the Programme?

See the relevant course page on the website for the admission requirements relevant to this programme: <https://www.keele.ac.uk/study/>

Applicants who are not currently undertaking any formal study or who have been out of formal education for more than 3 years and are not qualified to A-level or BTEC standard may be offered entry to the University's Foundation Year Programme.

Applicants for whom English is not a first language must provide evidence of a recognised qualification in English language. The minimum score for entry to the Programme is Academic IELTS 6.0 or equivalent.

English for Academic Purposes

Please note: All new international students entering the university will sit a diagnostic language assessment. Using this assessment, the Language Centre may allocate you to an English language module which will become compulsory. This will replace any GCP modules. *NB:* students can take an EAP module only with the approval of the English Language Programme Director and are not able to take any other Language modules in the same academic year.

English Language Modules at Level 4:

- Business - ENL-90003 Academic English for Business Students (Part 1); ENL-90004 Academic English for Business Students (2)
- Science - ENL-90013 Academic English for Science Students
- General - ENL-90006 English for Academic Purposes 2; ENL-90001 English for Academic Purposes 3; ENL-90002 English for Academic Purposes 4

Recognition of Prior Learning (RPL) is considered on a case-by-case basis and those interested should contact the Programme Director. The University's guidelines on this can be found here: <http://www.keele.ac.uk/ga/accreditationofpriorlearning/>

15. How are students supported on the programme?

Open Door Policy: Geology members of staff operate an 'Open Door Policy' where if we are free our office door will be open. If you want to have a chat about anything related to our courses, just knock and come in.

Academic Mentors: All students are allocated an Academic Mentor for the duration of their studies as part of the University's Academic Mentoring system. The role of the Academic Mentor is to meet formally with their mentees several times a year to discuss progress, performance and engagement and to offer support and advice. Students can make arrangements to see their Academic Mentor at any time.

Assessment & Feedback: On-going formative feedback on work is provided in practical classes and on fieldwork by discussion with members of staff or postgraduate demonstrators. Feedback on formative and summative assessments is provided in many formats, as electronic or written comments (as appropriate to the type of work submitted), or verbally either as general comments to a group or individual. You can consult your Geology Tutor about feedback on your exams or consult module leaders regarding course content

Use of e-learning/the Keele Learning Environment (KLE): All modules belonging to the Geology programmes are supported by learning materials that are accessible to students via the KLE or are provided on other online platforms such as Microsoft Teams.

Option Module Choice: General advice is given at the end of Level 5 (Year 2) on your choice of Level 6 (and if you are continuing to M.Geol, Level 7) option modules. You can then talk to either your Academic Mentor and/or the Course Director about how your choice of modules would match your career aspirations

Work Placement Tutor: All students undertaking the work placement degree programme will be provided with an academic tutor, based at Keele. Students will be expected to find their own work placements however, support will be provided throughout the placement process. This will involve support ensuring the appropriateness of the placement prior to starting the Placement Year, and email/telephone/face-to-face contact with the academic tutor throughout the placement at regular intervals.

Health and Safety: All students admitted to the course are expected to abide by the rules and regulations governing the efficient working, safety and welfare of all members both within the University and in the field.

Career Choice: The Course Director is the designated careers tutor. You can consult him at any time regarding questions you might have regarding future careers. Career development skills such as CV writing and applying for jobs are embedded within one of the Level 5 modules

Students with disabilities: Students with disabilities or medical problems, who are admitted onto the Geology degree programme, will meet with a member of the University's Disability Services department, the Geology Course Director and the GGE Disability Officer at the very start of the course in order to discuss any special requirements. Procedures will then be implemented according to the nature of the student's disability or medical problem. These procedures can range, for example, from allowing extra examination time for students diagnosed as dyslexic, to allocating additional staff or demonstrators to field classes to help students with mobility problems

Further information: It is essential that students consult the Geology Noticeboard on the Keele Learning Environment (KLE) for definitive versions of the Geology handbooks, on-line course materials, and programme specifications. On-line learning and teaching materials related to individual modules are available on the KLE, which can be accessed from students.keele.ac.uk/

16. Learning Resources

The Geography, Geology and the Environment section of the School has its own building (the William Smith Building) that contains well-equipped laboratories and lecture theatres to cater for all geology/geoscience teaching. This concentration of teaching into one building enables students to identify with a specific base within the University.

M.Geology students have access to the master's laboratory to work in during their Level 7 studies, including a dedicated personal computer. The foyer provides pleasant surroundings for students to meet and socialise with their peers. The Office is open continuously during the week from 9 am to 5 pm to answer student queries and deal with administrative tasks.

Some practical class teaching takes place in the University's new [Central Science Laboratory](#).

17. 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.

Work Experience (Work Placement Year)

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

Fieldwork

Fieldwork is an essential part of a geologist's training 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 programme includes field excursions to classic geological areas within the British Isles, as well as overseas field courses to enable students to study the evolution of fundamentally different geological regimes. Due to the combined honours structure of Keele, field courses typically have to take place at weekends or during vacation time.

18. Additional Costs

Field Course Costs

ALL students undertake compulsory field courses as part of their studies - these are provided at no cost. There is a range of field courses, and costs are dependent on degree route, module choices and the nature of the independent project work taken by students. 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, third and fourth-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
Total estimated additional costs (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.

19. Quality management and enhancement

The quality and standards of learning in this programme are subject to a continuous process of monitoring, review and enhancement.

- The Geology Course Management Committee is responsible for overseeing the delivery and development of the Geology programmes.
- The School Education Committee is responsible for reviewing and monitoring quality management and enhancement procedures and activities across the School.
- Individual modules and the programme as a whole are reviewed and enhanced every year in the annual programme review which takes place at the end of the academic year.
- The programmes are run in accordance with the University's Quality Assurance procedures and are subject to periodic reviews under the Revalidation process.

Student evaluation of, and feedback on, the quality of learning on every module takes place every year using a variety of different methods:

- The results of student evaluations of all modules are reported to module leaders and reviewed by the Programme Committee as part of annual programme review.
- Findings related to the programme from the annual National Student Survey (NSS), and from regular surveys of the student experience conducted by the University, are subjected to careful analysis and a planned response at programme and School level.
- Feedback received from representatives of students in all three years of the programme is considered and acted on at regular meetings of the Student Staff Voice Committee.

The University appoints senior members of academic staff from other universities to act as external examiners on all programmes. They are responsible for:

- Confirming all marks which contribute to a student's degree
- Reviewing and giving advice on the structure and content of the programme and assessment procedures

Information about current external examiner(s) can be found here:

<http://www.keele.ac.uk/qa/externalexaminers/currentexternalexaminers/>

20. The principles of programme design

The programme described in this document has been drawn up with reference to, and in accordance with the guidance set out in, the following documents:

a. Keele Vision for Education:

<https://www.keele.ac.uk/kiite/visionforeducation/#:~:text=Our%20Vision%20for%20Education,of%20the%20post%20war%20years>

b. UK Quality Code for Higher Education, Quality Assurance Agency for Higher Education: <http://www.qaa.ac.uk/quality-code>

c. QAA Subject Benchmark Statement: Earth Sciences, Environmental Sciences and Environmental Studies (2022)

<https://www.qaa.ac.uk/quality-code/subject-benchmark-statements/earth-sciences-environmental-science-and-environmental-studies>

d. Keele University Regulations and Guidance for Students and Staff: <https://www.keele.ac.uk/regulations>

e. Keele University's Access and Participation Plan 2020/21 to 2024/25:

<https://www.keele.ac.uk/media/k-web/k-discover/facts/UniversityOfKeele-APP-2020-21.pdf>

f. The Geological Society Accreditation Scheme for First Degree Courses in Geology: <https://www.geolsoc.org.uk/accreditation>

21. Annex - International Year

M.Geology with International Year

International Year Programme

Students registered for M.Geology may either be admitted for or apply to transfer during their period of study at Level 5 to the 'M.Geology with International Year'. Students accepted onto this programme 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 M.Geology programme without the International Year 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 'M.Geology with International Year'.

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 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 the geology, 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 principles to describe and explain phenomena and solve problems in the context of selected topics within geology.

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

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.

22. Annex - Work Placement Year

M.Geology with Work Placement Year

Work Placement Year summary

Students registered for M.Geology may either be admitted for or apply to transfer during their studies to the 'M.Geology with Work Placement Year'. 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 4-year M.Geology 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, Level 6 and Level 7 will be as per the main body of this document. The additional detail contained in this annex will pertain solely to students registered for 'M.Geology with Work Placement Year'.

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 'with work placement year' degree programme, or to transfer onto the programme at the end of Year-1 and in Year-2 at the end of Semester 1. Students who are initially registered for the 5-year degree programme may transfer onto the 4-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 (minimum 30 weeks full time (1,050 hours), or equivalent, work placement), will be automatically transferred onto the 4-year degree programme.

The criteria to be applied are:

- A good University attendance record and be in 'good academic standing'.
- Passed all Year-1 and Year-2 Semester 1 modules with an overall module average of > 60%
- 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 5-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 (Geology) 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 (Geology)' 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

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: 08 February 2023

Previous documents

Version No	Year	Owner	Date Approved	Summary of and rationale for changes
1	2022/23	STUART EGAN	28 March 2022	- Removal of ESC-40019 Water Resources and ESC-30029 Water Resources
1.1	2021/22	STUART EGAN	28 March 2022	Optional module changes: at Level 6, replacement of module ESC-30036 (Exploration Geophysics for the Hydrocarbon Industry) with ESC-30082 (Reservoir Geology and Geophysics) and at Level 7, replacement of ESC-40041 (Petroleum Geology) with ESC-40073 (Reservoir Geology and Geophysics (Masters)). - Removal of ESC-40019 Water Resources and ESC-30029 Water Resources
1	2021/22	STUART EGAN	05 March 2021	
1.2	2020/21	STUART EGAN	14 July 2022	Revisions for 2022/23 for Levels 6 and 7 only: - Added ESC-30082 (Reservoir Geology and Geophysics) as a level 6 option module, which has replaced ESC-30036 (Exploration Geophysics for the Hydrocarbon Industry) - Added ESC-30038 (Geological Communication Skills) as a level 6 option module to broaden student choice of option modules. - Added ESC-40073 (Reservoir Geology and Geophysics (Masters)) as a level 7 option module, which has replaced ESC-40038 (MGeoscience: Exploration Geophysics for the Hydrocarbon Industry) and ESC-40041 (Petroleum Geology) - Removal of ESC-40019 Water Resources and ESC-30029 Water Resources
1.1	2020/21	STUART EGAN	05 March 2021	Minor revision: added module ESC-30058 (The Science of Soil) as a level 6 option module.
1	2020/21	IAN STIMPSON	18 December 2019	
1.2	2019/20	STUART EGAN	28 March 2022	Revisions for 2022/23 for Level 7 only: - Added ESC-40073 (Reservoir Geology and Geophysics (Masters)) as a level 7 option module, which has replaced ESC-40038 (MGeoscience: Exploration Geophysics for the Hydrocarbon Industry) and ESC-40041 (Petroleum Geology) - Removal of ESC-40019 Water Resources and ESC-30029 Water Resources
1.1	2019/20	STUART EGAN	05 March 2021	Minor revision: added module ESC-30058 (The Science of Soil) as a level 6 option module.
1	2019/20	IAN STIMPSON	18 December 2019	