

Variation to the Course Information Documents

For Academic Year 2020/21

<p>Name of programme(s) and award type(s): <i>(such as Single Honours History with International Year)</i></p>	<p>All GGE Undergraduate Programmes</p> <p>GEOGRAPHY DEGREES:</p> <ul style="list-style-type: none"> ● Geography Single Honours ● Geography Combined Honours ● Human Geography Single Honours ● Human Geography Combined Honours ● Physical Geography Single Honours ● Physical Geography Combined Honours <p>ENVIRONMENT DEGREES</p> <ul style="list-style-type: none"> ● Environment and Sustainability Single Honours ● Environmental Science Single Honours ● Environmental Science Combined Honours <p>GEOLOGY DEGREES:</p> <ul style="list-style-type: none"> ● Geology ● Geology (MGeoscience) <p>Natural Sciences</p>
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Dear students,

As part of our commitment to continually work to improve our programmes, and in light of our plans to start next academic year with a hybrid delivery model due to the impact of Covid-19, we are confirming in this document the changes to your programme in the Academic Year 2020/21. More general information about what studying at the University will be like in 2020/21 can be found here:

<https://www.keele.ac.uk/coronavirus/operations/>

Overview of changes to your programme

There are two main developments which may change how your programme in GGE will run: the mode of delivery of your programme and field course provisions. There will be some changes to assessments from previous years and the manner in which certain types of session run will be restricted by distancing policy and related Government, regional and local guidelines.

Mode of delivery. The most prominent change to your programme will be the style in which it is delivered. The University, and therefore School, are adopting a flexible, blended learning environment as a mode of delivery. Simply put, there will be a move from *in situ* lectures as a mechanism to disseminate course content; the majority of course material will be disseminated online in a digital learning environment. The school will

continue to run *in situ* sessions such as practical classes, tutorials and seminars but the number and length of these will likely be reduced compared to previous years. *In situ* class sizes will most likely need to be in small groups (to ensure distancing is adhered to). Importantly this does not mean that you will gain less skills or authentic experiences, but that you will be prepared in an alternative format than traditionally. We would like to stress that the transition to this mode of delivery is not a token gesture; the flexible blended environment has been part of the Keele Vision for Education for some time and is a pedagogically robust and inclusive form of teaching and learning delivery.

Field Course Provision. International Field Courses will most likely not go ahead in the 2020/21 academic year. The school will still run day courses and hopefully residential courses within the UK if possible. The school is also producing a number of virtual field courses to be used as supplements to courses we run or in the event of individuals or cohorts unable to attend a field course these materials will become part of alternatives provided. Virtual field courses will likely to be as varied as the environs of which they are portraying, but generally they will be digital collections of images, maps, 360 VR images, videos and other media threaded together with the “narrative” of a field course. Importantly our virtual field courses will enable all students to meet the learning outcomes of our field work programme.

Specific planned changes

<p>How the programme will be taught <i>(include any significant changes to the balance between on campus and digital delivery and what students can expect)</i></p>	<p>Students are likely to spend fewer hours in <i>in situ</i> sessions than previously and can expect more content to be delivered in a digital and blended format.</p> <p>Some computer-based sessions will take place using “virtual machines”, students will be able to remotely access and control Keele PCs with specialist software via their own machine.</p> <p>Practical, seminar, tutorial and similar style <i>in situ</i> sessions will need to take place in line with social distancing guidance - this likely means a smaller number of students in sessions of this type (sessions will be repeat taught to ensure all students can attend each session).</p>
<p>Changes to placements, field courses or other practical activities <i>(where applicable)</i></p>	<p><i>In situ</i> placements will most likely be impossible to provide. In order to ensure students can still complete placements the school is bringing forward a module (see the updated module list below) which includes digital placements, research placements and similar. This module was under development within the school before the pandemic started and is an innovative and modern employability module.</p> <p>Field courses - It is highly unlikely that any international field courses will be able to run in the 2020/2021 academic year. The school is still planning on running UK based day courses and residential if possible. The campus will also be used to provide authentic skill-based activities.</p>
<p>Learning resources and any potential additional costs <i>(such as equipment requirements)</i></p>	<p>Access to a laptop (or similar) is highly recommended.</p> <p>Given an increasing level of online teaching and assessments for this programme, it would be preferable if students had access to computer equipment with a webcam and microphone. It may also be preferable for students to have adequate Wi-Fi connectivity and associated internet speeds. Students who need support in accessing appropriate IT equipment may be eligible to apply for support from the University’s hardship fund.</p>

How the programme will be assessed <i>(a general summary of changes to assessment methods)</i>	There will be no traditional exams for the 2020/21 academic year. Alternative assessments will be provided - these changes will be reflected in module handbooks available to students at the start of semester. Where an exam is deemed to still be an appropriate assessment, an open book, timed exam will be used.
How students are supported <i>(any alternative arrangements such as communication methods, support networks etc.)</i>	We are very proud of the supportive environment in GGE, and recognise this is an area that will be very different next year. We are actively looking into ways of emulating our “open door policy” for a blended environment where the physical popping into our offices will not be possible.

Updated module lists for 2020/21

GEOGRAPHY DEGREES:

Geography Single Year 1 / Level 4

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Fundamentals of Physical Geography	ESC-10039	15	1	unchanged
Human Geographies	GEG-10013	15	1	unchanged
Geography & Geographers	GEG-10011	15	1	unchanged
Geographical Skills	ESC-10035	15	1-2	unchanged
People and the Environment	ESC-10041	15	2	unchanged
Optional modules	Module Code	Credits	Semester	
Practising Human Geography	GEG-10012	15	2	unchanged
Global Warming of a New Ice Age?	ESC-10032	15	2	unchanged
The Practice of Physical Geography	ESC-10038	15	2	unchanged
Greening Business	ESC-10043	15	2	unchanged
Entrepreneurship Level 4	ESC-10056	15	2	unchanged

Geography Single Year 2 / Level 5

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Practical Physical Geography	ESC-20029	15	1	unchanged
Practical Human Geography	GEG-20010	15	1	unchanged
Dynamic Geographies	ESC-20049	30	2	unchanged
Geographical Research Training	GEG-20009	15	2	unchanged
Optional modules	Module Code	Credits	Semester	
Regional Landsystems	ESC-20030	15	1	unchanged
Work Placement Module	ESC-20051	15	1-2	Removed (replaced by ESC-20092)
Employability Training: Engaging with the Workplace	ESC-20092	15	1-2	Added (replaces ESC-20051)
Space & Society	GEG-20015	15	1	unchanged
Concepts & Debates in Geography	GEG-20018	15	2	unchanged

Geography Single Year 3 / Level 6

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
None				
Optional modules	Module Code	Credits	Semester	
Geography Double Dissertation – ISP	GEG-30006	30	1-2	unchanged
Geography Single Dissertation – ISP	GEG-30008	15	1-2	unchanged
Glaciers and Glacial Geomorphology	ESC-30006	15	1	unchanged
Global Environmental Change	ESC-30018	15	1	unchanged
Water Resources	ESC-30020	15	2	unchanged
Coastal Environments	ESC-30027	15	2	unchanged
Applied GIS	ESC-30044	15	1	unchanged
Inspirational Landscapes	GEG-30014	15	2	unchanged
Postcolonialism in South Asia	GEG-30015	15	1	unchanged
Economic Development & Environmental Transformation	GEG-30016	15	2	unchanged
Rural Geographies	GEG-30020	15	2	unchanged
Animals & Society	GEG-30021	15	1	unchanged
Geographies of Health and Illness	GEG-30023	15	2	unchanged
The Science of Soil	ESC-30058	15	2	Added
Sustainability Consultancy	ESC-30060	15	1-2	Added
Trees in their Environment	LSC-30017	15	?	Removed (no longer running)

Geography Combined Year 1 / Level 4

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Fundamentals of Physical Geography	ESC-10039	15	1	unchanged
Human Geographies	GEG-10013	15	1	unchanged
Geographical Skills	ESC-10035	15	1-2	unchanged
People and the Environment	ESC-10041	15	2	unchanged
Optional modules	Module Code	Credits	Semester	
None				

Geography Combined Year 2 / Level 5

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Dynamic Geographies	ESC-20050	15	2	unchanged
Geographical Research Training	GEG-20009	15	2	unchanged
Optional modules	Module Code	Credits	Semester	
Practical Physical Geography	ESC-20029	15	1	unchanged
Practical Human Geography	GEG-20010	15	1	unchanged
Regional Landsystems	ESC-20030	15	1	unchanged
Space & Society	GEG-20015	15	1	unchanged

Geography Combined Year 3 / Level 6

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
None				
Optional modules	Module Code	Credits	Semester	
Geography Double Dissertation – ISP	GEG-30006	30	1-2	unchanged
Geography Single Dissertation – ISP	GEG-30008	15	1-2	unchanged
Glaciers and Glacial Geomorphology	ESC-30006	15	1	unchanged
Global Environmental Change	ESC-30018	15	1	unchanged
Water Resources	ESC-30020	15	2	unchanged
Coastal Environments	ESC-30027	15	2	unchanged
Applied GIS	ESC-30044	15	1	unchanged
Inspirational Landscapes	GEG-30014	15	2	unchanged
Postcolonialism in South Asia	GEG-30015	15	1	unchanged
Economic Development & Environmental Transformation	GEG-30016	15	2	unchanged
Rural Geographies	GEG-30020	15	2	unchanged
Animals & Society	GEG-30021	15	1	unchanged
Geographies of Health and Illness	GEG-30023	15	2	unchanged

Human Geography Single Year 1 / Level 4

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Human Geographies	GEG-10013	15	1	unchanged
Geographical Skills	ESC-10035	15	1-2	unchanged
Practising Human Geography	GEG-10012	15	2	unchanged
People and the Environment	ESC-10041	15	2	unchanged
Geography and Geographers	GEG-10011	15	1	unchanged
Optional modules	Module Code	Credits	Semester	
Fundamentals of Physical Geography	ESC-10039	15	1	unchanged
History, Media, Memory: The Presentation of the Past in Contemporary Culture	HIS-10026	15	1	unchanged
The Politics of Sustainability	PIR-10047	15	1	unchanged
Global Warming or a New Ice Age	ESC-10032	15	2	unchanged
Greening Business: Employability and Sustainability	ESC-10043	15	2	unchanged
The Practice of Physical Geography	ESC-10038	15	2	unchanged
Fundamentals of Physical Geography	ESC-10039	15	1	unchanged

Human Geography Single Year 2 / Level 5

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Dynamic Geographies	ESC-20049	30	2	unchanged
Practical Human Geography	GEG-20010	15	1	unchanged
Geographical Research Training	GEG-20009	15	2	unchanged
Space & Society	GEG-20015	15	1	unchanged

Optional modules	Module Code	Credits	Semester	
Gender and the Cinematic Gaze	FIL-20001	15	1	unchanged
City, Culture, Society	SOC-20040	15	2	unchanged
Concepts and Debates in Geography	GEG-20018	15	2	unchanged
Regional Landsystems	ESC-20030	15	1	unchanged
Practical Physical Geography	ESC-20029	15	1	unchanged
Imperialism and Empire	HIS-20066	15	1	unchanged

Human Geography Single Year 3 / Level 6

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
None				
Optional modules	Module Code	Credits	Semester	
Geography Double Dissertation – ISP	GEG-30006	30	1-2	unchanged
Geography Single Dissertation – ISP	GEG-30008	15	1-2	unchanged
Applied GIS	ESC-30044	15	1	unchanged
Inspirational Landscapes	GEG-30014	15	2	unchanged
Postcolonialism in South Asia	GEG-30015	15	1	unchanged
Economic Development & Environmental Transformation	GEG-30016	15	2	unchanged
Rural Geographies	GEG-30020	15	2	unchanged
Animals & Society	GEG-30021	15	1	unchanged
Geographies of Health and Illness	GEG-30023	15	2	unchanged

Human Geography Combined Year 1 / Level 4

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Human Geographies	GEG-10013	15	1	unchanged
Geographical Skills	ESC-10035	15	1-2	unchanged
Practising Human Geography	GEG-10012	15	2	unchanged
People and the Environment	ESC-10041	15	2	unchanged
Geography and Geographers	GEG-10011	15	1	unchanged
Optional modules	Module Code	Credits	Semester	
None				

Human Geography Combined Year 2 / Level 5

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Dynamic Geographies	ESC-20049	30	2	unchanged
Practical Human Geography	GEG-20010	15	1	unchanged
Geographical Research Training	GEG-20009	15	2	unchanged
Space & Society	GEG-20015	15	1	unchanged
Optional modules	Module Code	Credits	Semester	

None				
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Human Geography Combined Year 3 / Level 6

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
None				
Optional modules	Module Code	Credits	Semester	
Geography Double Dissertation – ISP	GEG-30006	30	1-2	unchanged
Geography Single Dissertation – ISP	GEG-30008	15	1-2	unchanged
Applied GIS	ESC-30044	15	1	unchanged
Inspirational Landscapes	GEG-30014	15	2	unchanged
Postcolonialism in South Asia	GEG-30015	15	1	unchanged
Economic Development & Environmental Transformation	GEG-30016	15	2	unchanged
Rural Geographies	GEG-30020	15	2	unchanged
Animals & Society	GEG-30021	15	1	unchanged
Geographies of Health and Illness	GEG-30023	15	2	unchanged

Physical Geography Single Year 1 / Level 4

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Fundamentals of Physical Geography	ESC-10039	15	1	unchanged
Geographical Skills	ESC-10035	15	1-2	unchanged
People and Environment	ESC-10041	15	2	unchanged
The Practice of Physical Geography	ESC-10038	15	2	unchanged
Geography and Geographers	GEG-10011	15	1	unchanged
Optional modules	Module Code	Credits	Semester	
Global Warming or a New Ice Age	ESC-10032	15	2	unchanged
Greening Business: Employability and Sustainability	ESC-10043	15	2	unchanged
Practising Human Geography	GEG-10012	15	2	unchanged
Human Geographies	GEG-10013	15	1	unchanged
Introductory Geology for the Environmental Sciences	ESC-10045	15	1	unchanged
Entrepreneurship level 4	ESC-10056	15	1 or 2	unchanged

Physical Geography Single Year 2 / Level 5

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Practical Physical Geography	ESC-20029	15	1	unchanged
Dynamic Geographies	ESC-20049	30	2	unchanged
Regional Landscapes	ESC-20030	15	1	unchanged
Geographical Research Training	GEG-20009	15	2	unchanged
Concepts and Debates in Geography	GEG-20018	15	2	unchanged
Optional modules	Module Code	Credits	Semester	

Human Impact on the Environment	ESC-20017	15	1	unchanged
Geoscience and Society	ESC-20037	15	2	unchanged
Work Placement module	ESC-20051	15	1-2	Removed (replaced by ESC-20092)
Entrepreneurship level 5	ESC-20065	15	1	unchanged
Practical Human Geography	GEG-10010	15	1	unchanged
Space and Society	GEG-20015	15	1	unchanged
Physical Geography Study Abroad 1	GEG-20019	15	1	unchanged
Physical Geography Study Abroad 2	GEG-20020	15	1	unchanged
Human Impact on the Environment	ESC-20017	15	1	unchanged
Employability Training: Engaging with the Workplace	ESC-20092	15	1-2	Added (replaces ESC-20051)

Physical Geography Single Year 3 / Level 6

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
None				
Optional modules	Module Code	Credits	Semester	
Geography Double Dissertation	GEG-30006	30	1-2	unchanged
or				unchanged
Geography Single Dissertation	GEG-30008	15	1-2	unchanged
Glaciers and Glacial Geomorphology	ESC-30006	15	1	unchanged
Global Environmental Change	ESC-30018	15	1	unchanged
Water Resources	ESC-30020	15	2	unchanged
Coastal Environments	ESC-30027	15	2	unchanged
Applied GIS	ESC-30044	15	1	unchanged
Inspirational Landscapes	GEG-30014	15	2	unchanged
Contemporary topics in environmental science	ESC-30045	15	1	Removed (replaced by ESC-30056)
Environment and Sustainability Case Study	ESC-30046	15	1	Removed (replaced with ESC-30060)
The Science of Soil	ESC-30058	15	2	Added
Sustainability Consultancy	ESC-30060	15	1-2	Added (replaces ESC-30046)
Ecotoxicology and Risk Assessment	ESC-30056	15	1	Added (replaces ESC-30045)
Trees in their Environment	LSC-30017	15	?	Removed (no longer running)

Physical Geography Combined Year 1 / Level 4

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Fundamentals of Physical Geography	ESC-10039	15	1	unchanged
Geographical Skills	ESC-10035	15	1-2	unchanged
People and Environment	ESC-10041	15	2	unchanged
The Practice of Physical Geography	ESC-10038	15	2	unchanged
Fundamentals of Physical Geography	ESC-10039	15	1	unchanged
Optional modules	Module Code	Credits	Semester	
None				

Physical Geography Combined Year 2 / Level 5

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Practical Physical Geography	ESC-20029	15	1	unchanged
Dynamic Geographies	ESC-20050	15	2	unchanged
Regional Landsystems	ESC-20030	15	1	unchanged
Geographical Research Training	GEG-20009	15	2	unchanged
Optional modules	Module Code	Credits	Semester	
None				

Physical Geography Combined Year 3 / Level 6

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
None				
Optional modules	Module Code	Credits	Semester	
Geography Double Dissertation	GEG-30006	30	1-2	unchanged
or				
Geography Single Dissertation	GEG-30008	15	1-2	unchanged
Glaciers and Glacial Geomorphology	ESC-30006	15	1	unchanged
Global Environmental Change	ESC-30018	15	1	unchanged
Water Resources	ESC-30020	15	2	unchanged
Coastal Environments	ESC-30027	15	2	unchanged
Applied GIS	ESC-30044	15	1	unchanged
The Science of Soil	ESC-30058	15	2	Added
Sustainability Consultancy	ESC-30060	15	1-2	Added (replaces ESC-30046)

ENVIRONMENT DEGREES:

Environment and Sustainability (SH): Year 1 / Level 4

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Introductory Geology for the Environmental Sciences	ESC-10045	15	1	Unchanged
The politics of sustainability	PIR-10047	15	1	Unchanged
Studying the Environment	ESC-10061	15	1-2	Unchanged
People and the Environment	ESC-10041	15	2	Unchanged
Greening Business: Employability and Sustainability	ESC-10043	15	2	Unchanged
Ecology and Plant Biology	LSC-10083	30	2	Unchanged
Optional modules	Module Code	Credits	Semester	

Fundamentals of Physical Geography	ESC-10039	15	1	Unchanged
Introductory Environmental Chemistry	CHE-10044	15	2	Unchanged
Global Warming or a New Ice Age?	ESC-10032	15	2	Unchanged
Environmental Ethics	PIR-10059	15	2	Unchanged

Environment and Sustainability (SH): Year 2 / Level 5 (2019/20 entry cohort)

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Human Impact on the Environment, scientific perspectives	ESC-20017	15	1	Unchanged
Environmental and Sustainability Impact Assessment	ESC-20080	15	1	Unchanged
Employability Training: Engaging with the Workplace	ESC-20092	15	1-2	Added (replaces ESC-20051)
Work Placement Module	ESC-20051	15	1-2	Removed (replaced by ESC-20092)
Research and fieldwork planning	ESC-20081	15	2	Unchanged
Corporate Governance and Social Responsibility	MAN-20082	15	2	Unchanged
Optional modules	Module Code	Credits	Semester	
Regional Landsystems	ESC-20030	15	1	Unchanged
Environmental Politics and Policy	PIR-20067	15	1	Unchanged
Sustainable Chemistry	CHE-20032	15	2	Unchanged
Reconstructing Past Environments	ESC-20002	15	2	Unchanged
Environmental Analytical Methods	ESC-20032	15	2	Unchanged
Geoscience and Society	ESC-20037	15	2	Unchanged
Dynamic Geographies	ESC-20050	15	2	Unchanged
Research and Analytical Skills	LSC-20056	15	2	Unchanged
Living Together: Behaviour, Co-operation and Conflict	LSC-20062	15	2	Unchanged
Health and the Environment	PTY-20020	15	2	Unchanged

Environment and Sustainability (SH): Year 3 / Level 6 (2018/19 entry cohort)

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
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Clean Technology	ESC-30040	15	1	Unchanged
Sustainability Consultancy	ESC-30060	15	1-2	Added (in place of ESC-30046 Environment and Sustainability Case Study)
Dissertation	ESC-30047	30	1-2	Unchanged
Optional modules	Module Code	Credits	Semester	Added/removed/unchanged?
Environment and Sustainability Case Study	ESC-30046	15	1-2	Removed (replaced by ESC-30060 as core)
Applied Fish Biology	LSC-30006	15	2	Removed (replaced by LSC-20027)
Animal Welfare	LSC-30027	15	2	Added (in place of LSC-30006)
Environmental crimes	CRI-30051	15	1	Unchanged
Educating for Global Citizenship	EDU-30082	15	1	Unchanged
Glaciers and Glacial Geomorphology	ESC-30006	15	1	Unchanged
Natural Hazards	ESC-30009	15	1	Unchanged
Global Environmental Change	ESC-30018	15	1	Unchanged
Applied GIS	ESC-30044	15	1	Unchanged
Ecotoxicology and Risk Assessment	ESC-30056	15	1	Added (replaces ESC-30045)
Contemporary topics in environmental science	ESC-30045	15	1	Removed (replaced by ESC-30056)
Animals and Society	GEG-30021	15	1	Unchanged
Applied Insect Ecology	LSC-30003	15	1	Unchanged
Conservation Biology	LSC-30043	15	1	Unchanged
Water Resources	ESC-30020	15	2	Unchanged
Coastal Environments	ESC-30027	15	2	Unchanged
The Science of Soil	ESC-30058	15	2	Added
Economic Development and Environmental Transformation	GEG-30016	15	2	Unchanged
Environmental Politics in the USA	PIR-30129	15	2	Unchanged
Happiness and Wellbeing: Social Scientific Approaches	PSY-30096	15	2	Unchanged
Trees in their Environment	LSC-30017	15	?	Removed (no longer running)

Environmental Science (Single Honours): Year 1 / Level 4

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
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Fundamentals of Physical Geography	ESC-10039	15	1	Unchanged
Introductory Geology for the Environmental Sciences	ESC-10045	15	1	Unchanged
Studying the Environment	ESC-10061	15	1-2	Unchanged
Introductory Environmental Chemistry	CHE-10044	15	2	Unchanged
Greening Business: Employability and Sustainability	ESC-10043	15	2	Unchanged
Ecology and Plant Biology	LSC-10083	30	2	Unchanged
Optional modules	Module Code	Credits	Semester	
Global Warming or a New Ice Age?	ESC-10032	15	2	Unchanged
People and the Environment	ESC-10041	15	2	Unchanged

Environmental Science (Single Honours): Year 2 / Level 5 (2019/20 entry cohort)

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Human Impact on the Environment, scientific perspectives	ESC-20017	15	1	Unchanged
Environmental and Sustainability Impact Assessment	ESC-20080	15	1	Added (ESC-20080 and ESC-20081 together make up ESC-20079; content unchanged)
Research and fieldwork planning	ESC-20081	15	2	Added (ESC-20080 and ESC-20081 together make up ESC-20079; content unchanged)
Environmental and Sustainability Impact Assessment and Research Planning	ESC-20079	30	1-2	Removed (should have been in as two constituent modules ESC-20080 and ESC-20081; content unchanged)
Environmental Analytical Methods	ESC-20032	15	2	
Optional modules	Module Code	Credits	Semester	
Practical Physical Geography	ESC-20029	15	1	Unchanged
Regional Landsystems	ESC-20030	15	1	Unchanged
Environmental Politics and Policy	PIR-20067	15	1	Unchanged
Employability Training: Engaging with the Workplace	ESC-20092	15	1-2	Added (replaces ESC-20051)
Work Placement Module	ESC-20051	15	1-2	Removed (replaced by ESC-20092)

Sustainable Chemistry	CHE-20032	15	2	Unchanged
Geoscience and Society	ESC-20037	15	2	Unchanged
Dynamic Geographies	ESC-20050	15	2	Unchanged
Research and Analytical Skills	LSC-20056	15	2	Unchanged
Living Together: Behaviour, Co-operation and Conflict	LSC-20062	15	2	Unchanged
Health and the Environment	PTY-20020	15	2	Unchanged

Environmental Science (Single Honours): Year 3 / Level 6 (2018/19 entry cohort)

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Dissertation	ESC-30047	30	1-2	Unchanged
Ecotoxicology and Risk Assessment	ESC-30056	15	1	Added (replaces ESC-30045)
Contemporary topics in environmental science	ESC-30045	15	1	Removed (replaced by ESC-30056)
The Science of Soil	ESC-30058	15	2	Added
Optional modules	Module Code	Credits	Semester	
Clean Technology	ESC-30040	15	1	Unchanged
Applied Fish Biology	LSC-30006	15	2	Removed (replaced by LSC-20027)
Animal Welfare	LSC-30027	15	2	Added (in place of LSC-30006)
Applied Insect Ecology	LSC-30003	15	1	Unchanged
Sustainability Consultancy	ESC-30060	15	1-2	Added
Conservation Biology	LSC-30043	15	1	Unchanged
Natural Hazards	ESC-30009	15	1	Unchanged
Global Environmental Change	ESC-30018	15	1	Unchanged
Applied GIS	ESC-30044	15	1	Unchanged
Hydrological and Engineering Geology	ESC-30022	15	2	Unchanged
Coastal Environments	ESC-30027	15	2	Unchanged
Water Resources	ESC-30020	15	2	Unchanged
Glaciers and Glacial Geomorphology	ESC-30006	15	1	Added (was in Combined Honours specification but missed from SH)
Trees in their Environment	LSC-30017	15	?	Removed (no longer running)

Environmental Science (Combined Honours): Year 1 / Level 4

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Introductory Geology for the Environmental Sciences	ESC-10045	15	1	Unchanged
Studying the Environment	ESC-10061	15	1-2	Unchanged
Introductory Environmental Chemistry	CHE-10044	15	2	Unchanged
Optional modules	Module Code	Credits	Semester	
Fundamentals of Physical Geography	ESC-10039	15	1	Unchanged
People and the Environment	ESC-10041	15	2	Unchanged
Greening Business: Employability and Sustainability	ESC-10043	15	2	Unchanged

Environmental Science (Combined Honours): Year 2 / Level 5 (2019/20 entry cohort)

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Human Impact on the Environment, scientific perspectives	ESC-20017	15	1	Unchanged
Environmental and Sustainability Impact Assessment	ESC-20080	15	1	Unchanged
Research and fieldwork planning	ESC-20081	15	2	Unchanged
Environmental Analytical Methods	ESC-20032	15	2	Unchanged
Optional modules	Module Code	Credits	Semester	NONE

Environmental Science (Combined Honours) Year 3 / Level 6 (2018/19 entry cohort)

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Dissertation	ESC-30050	15	1-2	Unchanged
Optional modules	Module Code	Credits	Semester	
Ecotoxicology and Risk Assessment	ESC-30056	15	1	Added (replaces ESC-30045)
Contemporary topics in environmental science	ESC-30045	15	1	Removed (replaced by ESC-30056)
The Science of Soil	ESC-30058	15	2	Added
Clean Technology	ESC-30040	15	1	Unchanged

Conservation Biology	LSC-30043	15	1	Unchanged
Applied Insect Ecology	LSC-30003	15	1	Unchanged
Applied Fish Biology	LSC-30006	15	2	Removed (replaced by LSC-20027)
Animal Welfare	LSC-30027	15	2	Added (in place of LSC-30006)
Sustainability Consultancy	ESC-30060	15	1-2	Added
Natural Hazards	ESC-30009	15	1	Unchanged
Global Environmental Change	ESC-30018	15	1	Unchanged
Applied GIS	ESC-30044	15	1	Unchanged
Coastal Environments	ESC-30027	15	2	Unchanged
Water Resources	ESC-30020	15	2	Unchanged
Glaciers and Glacial Geomorphology	ESC-30006	15	1	Unchanged
Trees in their Environment	LSC-30017	15	?	Removed (no longer running)

GEOLOGY DEGREES:

Geology: Year 1 / Level 4

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Earth Structure and History	ESC-10062	30	1-2	Unchanged
Minerals, Rocks and Fossils	ESC-10063	30	1-2	Unchanged
Geology Data Visualisation, Analysis and Interpretation (30-credit)	ESC-10064	30	1-2	Unchanged
The Earth System	ESC-10048	15	2	Unchanged

Geology: Year 2 / Level 5 (2019/20 entry cohort)

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Palaeoclimatology and Quaternary Studies	ESC-20036	15	1	Unchanged
Petrology	ESC-20082	30	1-2	Unchanged
Field Techniques	ESC-20083	30	1-2	Unchanged
Geology and Society	ESC-20084	30	1-2	Unchanged
Geochemistry	ESC-20064	15	2	Unchanged

Geology: Year 3 / Level 6 (2018/19 entry cohort)

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Economic Geology	ESC-30028	15	1	Unchanged
Geoscience: Independent Field Project - ISP	ESC-30032	30	1-2	Unchanged
Independent Fieldwork Project - ISP	ESC-30039	15	1	Unchanged

Geological Communication Skills	ESC-30038	15	2	Unchanged
Optional modules	Module Code	Credits	Semester	
Glaciers and Glacial Geomorphology	ESC-30006	15	1	Unchanged
Natural Hazards	ESC-30009	15	1	Unchanged
Global Environmental Change	ESC-30018	15	1	Unchanged
Exploration Geophysics for the Hydrocarbon Industry	ESC-30036	15	1	Unchanged
Structure and Geodynamics	ESC-30008	15	2	Unchanged
Water Resources	ESC-30020	15	2	Unchanged
Hydrological and Engineering Geology	ESC-30022	15	2	Unchanged
Micropalaeontology: Principles and Applications	ESC-30025	15	2	Unchanged
Coastal Environments	ESC-30027	15	2	Unchanged
Advanced Petrology and Structural Geology Field Course	ESC-30030	15	2	Unchanged
Volcanic and Magmatic Processes	ESC-30033	15	2	Unchanged
Advanced Topics in Sedimentology	ESC-30034	15	2	Unchanged
The Science of Soil	ESC-30058	15	2	Changed

Geology (MGeoscience): Year 4 / Level 7 (2018/19 entry cohort)

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Literature Synthesis	ESC-40003	15	1	Unchanged
Research Project	ESC-40004	15	1-2	Unchanged
Research in Context	ESC-40005	15	1-2	Unchanged
Research Report	ESC-40006	15	1-2	Unchanged
Spatial Geoscience Data Analysis	ESC-40007	15	1-2	Unchanged
Petroleum Geology	ESC-40041	15	2	Unchanged
Optional modules	Module Code	Credits	Semester	
MGeoscience: Natural Hazards	ESC-40015	15	1	Unchanged
MGeoscience: Glaciers and Glacial Geomorphology	ESC-40017	15	1	Unchanged
MGeoscience: Global Environmental Change	ESC-40018	15	1	Unchanged
MGeoscience: Exploration Geophysics for the Hydrocarbon Industry	ESC-40038	15	1	Unchanged
MGeoscience: Water Resources	ESC-40019	15	2	Unchanged
MGeoscience: Hydrological and Engineering Geology	ESC-40020	15	2	Unchanged
MGeoscience: Micropalaeontology: Princp and Apps	ESC-40023	15	2	Unchanged
MGeoscience: Structure and Geodynamics	ESC-40024	15	2	Unchanged
MGeoscience: Coastal Environments	ESC-40040	15	2	Unchanged

Natural Sciences: Year 1 / Level 4

All Natural Sciences students take the following Compulsory core modules for the programme:

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Science & Society	NAT-10001	15	1-2	Unchanged
Applied Interdisciplinary Science Case Studies	NAT-10005	15	1-2	Unchanged

In addition, students take 60 credits of modules for their core discipline mirroring the relevant Combined Honours programme. Any variations to the Compulsory and Option modules at Level 4 in those programmes will be mirrored for Natural Sciences students.

Natural Sciences: Year 2 / Level 5 (2019/20 entry cohort)

All Natural Sciences students take the following Compulsory core modules for the programme:

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Research Skills for Natural Scientists	NAT-20001	15	1-2	Unchanged
Interdisciplinary Perspectives on Wicked Problems	NAT-20007	15	1-2	Added

In addition, students take 45 credits of modules for their two core sciences, please see the relevant document for details.

Natural Sciences: Year 3 / Level 6 (2018/19 entry cohort)

All Natural Sciences students take the following Compulsory core modules for the programme:

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Grand Challenges in Society	NAT-30001	15	1-2	Unchanged
Natural Sciences Research Project	NAT-30002	30	1-2	Unchanged

In addition, students take 45 credits of modules for their two core sciences, please see the relevant document for details.

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

The module selection website can be accessed here: <https://www.keele.ac.uk/modules/>