

MSci GEOSCIENCE (F642)

Programme offered at: Durham.

Mode of study: this programme is available full-time.

LEVEL 1 (Certificate)

1	How the Earth Works Ψ	GEOL1011	20
2	Earth Materials Ψ	GEOL1021	20
3	Earth History and Life Ψ	GEOL1031	20
4	Field Studies # Ψ	GEOL1051	20
5-6	Modules to the value of 40 credits chosen from: Earth and Environment Ψ ~ Mathematical Methods in Geosciences Ψ Φ The Oceans Further Mathematics in Geoscience Ω	GEOL1041 GEOL1061 GEOL1071 GEOL1081	20 20 20 20

One or two 20 credit modules chosen from those offered by any Board of Studies

This module must be passed at 40% or above in order to progress to a BSc Ordinary Degree at the next Level within the Board of Studies in Earth Sciences.

Φ Students are required to take this module if they do not have AS Level mathematics or equivalent at Grade C or above.

Ψ Students who wish to study for a degree accredited by the Geological Society must choose these modules. [GEOL1061](#) is not required if students meet the conditions listed against Φ.

~ Students are required to take this module if they intend to follow the Environmental route through this degree.

Ω Students are required to take this module if they intend to follow the Geophysics with Geology route through this degree.

Note:

Students are required to attend a residential field course that is usually held in the Easter vacation.

LEVEL 2 (Diploma)

EITHER (GEOLOGY ROUTE)

1	Fieldwork (Geological) # Ψ	GEOL2191	20
2	Structural Geology and Tectonics Ψ	GEOL2011	20
3	Sedimentary Environments Ψ	GEOL2031	20
4	Igneous and Metamorphic Geochemistry and Petrology Ψ	GEOL2231	20
5	One 20 credit module from List A Ψ		
6	One further 20 credit module from List A or from List B		

LIST A

Geophysical Methods in Geology	GEOL2081	20
Earth Visualisation	GEOL2221	20

LIST B

Fossils and Dynamic Stratigraphy of the British Isles Ψ	GEOL2051	20
Water and Climate	GEOL2171	20

OR (ENVIRONMENTAL GEOSCIENCE ROUTE)

1	Fieldwork (Environmental) # Ψ	GEOL2201	20
2	Water and Climate Ψ	GEOL2171	20
3	Earth Visualisation Ψ	GEOL2221	20
4	Geophysical Methods in Geology Ψ	GEOL2081	20
5	Sedimentary Environments Ψ	GEOL2031	20
6	One 20 credit module chosen from: Structural Geology and Tectonics Fossils and Dynamic Stratigraphy of the British Isles Igneous and Metamorphic Geochemistry and Petrology	GEOL2011 GEOL2051 GEOL2231	20 20 20

OR (GEOPHYSICS WITH GEOLOGY ROUTE)

1	Fieldwork (Geophysical) # Ψ	GEOL2241	20
2	Geophysical Methods in Geology Ψ	GEOL2081	20
3	Earth Visualisation Ψ	GEOL2221	20
4	Structural Geology and Tectonics Ψ	GEOL2011	20

5-6	Modules to the value of 40 credits from:		
	Water and Climate	GEOL2171	20
	Fossils and Dynamic Stratigraphy of the British Isles	GEOL2051	20
	Igneous and Metamorphic Geochemistry and Petrology Ψ	GEOL2231	20
	Sedimentary Environments Ψ	GEOL2031	20

These modules must be passed at 40% or above in order to progress to the Ordinary degree at the next Level.

Ψ Students who wish to study for a degree accredited by the Geological Society must choose these modules.

Notes:

Students are required to attend a field course if specified as part of a module;

Students who fail to achieve the standard required under the Core Regulations for progression to Level 3 of the MSci in Geoscience but who achieve the standard required for progression to Level 3 of a Bachelors programme may progress to Level 3 of the BSc in Geology (for students who have taken [GEOL2191](#), [GEOL2011](#), [GEOL2031](#) and [GEOL2081](#)) or BSc in Environmental Geosciences (for students who have taken [GEOL2201](#), [GEOL2171](#), [GEOL2221](#) and [GEOL2081](#)) or BSc in Geophysics with Geology (for students who have taken [GEOL2241](#), [GEOL2011](#), [GEOL2221](#) and [GEOL2081](#)) in the Honours or Ordinary Stream in accordance with the Core Regulations;

A student who is qualified to progress from Level 2 to Level 3 of the MSci in Geoscience but wishes to transfer to Level 3 of the BSc in Geology (for students who have taken [GEOL2191](#), [GEOL2011](#), [GEOL2031](#) and [GEOL2081](#)) or BSc in Environmental Geosciences ([GEOL2201](#), [GEOL2171](#), [GEOL2221](#) and [GEOL2081](#)) or BSc in Geophysics with Geology ([GEOL2241](#), [GEOL2011](#), [GEOL2221](#) and [GEOL2081](#)) shall be permitted to do so.

LEVEL 3 (Degree)

EITHER (GEOLOGY ROUTE)

1-2	Dissertation Ψ	GEOL3022	40
3	Dynamic Earth I Ψ	GEOL3011	20
4-6	Modules to the value of 60 credits from the remaining modules offered by the Board of Studies in Earth Sciences		

OR (ENVIRONMENTAL GEOSCIENCE ROUTE)

1-2	Dissertation Ψ	GEOL3022	40
3	Dynamic Earth I Ψ	GEOL3011	20
4	Environmental Geochemistry Ψ	GEOL3041	20
5-6	Modules to the value of 40 credits from the remaining modules offered by the Board of Studies in Earth Sciences		

OR (GEOPHYSICS WITH GEOLOGY ROUTE)

1-2	Dissertation Ψ	GEOL3022	40
3	Petroleum Geophysics Ψ	GEOL3221	20
4	Earth Structure and Dynamics Ψ	GEOL3151	20
5-6	Modules to the value of 40 credits chosen from the remaining modules offered by the Board of Studies in Earth Sciences		

Ψ Students who wish to study for a degree accredited by the Geological Society must choose these modules. In addition, candidates wishing accreditation via the Geology Route must take [GEOL3231](#).

Notes:

Students are required to attend a residential field course if specified as part of a module;

Students preparing a mapping dissertation do so for five weeks during the second long vacation;

Students whose achievement at the end of Level 3 does not qualify them to proceed to Level 4 may be awarded the degree of BSc in Geology (for students who have taken [GEOL2191](#), [GEOL2011](#), [GEOL2031](#), [GEOL2231](#) and [GEOL2081](#)) or BSc in Environmental Geosciences (for students who have taken [GEOL2201](#), [GEOL2171](#), [GEOL2221](#), [GEOL2031](#) and [GEOL2081](#)) or BSc in Geophysics with Geology (for students who have taken [GEOL2241](#), [GEOL2011](#), [GEOL2221](#) and [GEOL2081](#)) at either Honours or Ordinary level in accordance with the Core Regulations for the award of a Bachelors degree.

LEVEL 4 (Degree)

1-3	Research Project Ψ	GEOL4053	60
4	Frontiers in Earth Sciences	GEOL4061	20
5	Earth Science Field Seminar Ψ	GEOL4081	20
6	Earth Sciences into Society	GEOL4091	20

Ψ Students who wish to study for a degree accredited by the Geological Society must choose these modules.

Notes:

Students are required to attend a field course if specified as part of a module;

Students whose achievement at the end of Level 4 does not qualify them to be awarded the degree of MSci in Geoscience may be awarded the degree of BSc in Geology (for students who have taken [GEOL2191](#), [GEOL2011](#), [GEOL2031](#), [GEOL2231](#) and [GEOL2081](#)) or BSc in Environmental Geosciences (for students who have taken [GEOL2201](#), [GEOL2171](#), [GEOL2221](#), [GEOL2031](#) and [GEOL2081](#)) or BSc in Geophysics

with Geology (for students who have taken [GEOL2241](#), [GEOL2011](#), [GEOL2221](#) and [GEOL2081](#)) with Honours in accordance with the Core Regulations for the award of a Bachelors degree.
Accreditation: this programme has been accredited by the Geological Society for a period of six years with effect from March 2010, subject to students choosing modules to constitute an approved pathway as indicated above.
