

These programme regulations should be read in conjunction with the University's [core regulations for undergraduate programmes](#), and the [marking and classification conventions for undergraduate programmes](#).

MSci Earth Sciences (F644)

1. This programme is available at Durham City, in a full-time mode of study.

Level 1 (Certificate)

EITHER (Geology Route)

2. Candidates shall study and be assessed in the following modules:

Principles of Earth Sciences Ψ	GEOL1091	20
Earth Materials Ψ	GEOL1021	20
Understanding Earth Sciences Ψ	GEOL1101	20
Field Studies ~ Ψ	GEOL1051	20

3. Candidates shall also study and be assessed in modules to the value of 40 credits from List A:

List A:		Credit value
Environment and Resources Ψ	GEOL1111	20
Mathematical Methods in Geosciences Ψ Φ	GEOL1061	20
Further Mathematics for Geoscientists	GEOL1081	20
Physics for Geoscientists	GEOL1121	20
Modules up to the value of 40 credits offered by any other Boards of Studies (including appropriate credit-bearing language modules offered by the University's Centre for Foreign Language Study).		

OR (Environmental Geoscience Route)

4. Candidates shall study and be assessed in the following modules:

Principles of Earth Sciences Ψ	GEOL1091	20
Earth Materials Ψ	GEOL1021	20
Understanding Earth Sciences Ψ	GEOL1101	20
Environment and Resources Ψ	GEOL1111	20
Field Studies ~ Ψ	GEOL1051	20

5. Candidates shall also study and be assessed in modules to the value of 20 credits from List B:

List B:		Credit value
Mathematical Methods in Geosciences Ψ Φ	GEOL1061	20
Further Mathematics for Geoscientists	GEOL1081	20
Physics for Geoscientists	GEOL1121	20
Modules up to the value of 20 credits offered by any other Boards of Studies (including appropriate credit-bearing language modules offered by the University's Centre for Foreign Language Study).		

OR (Geophysics with Geology Route)

6. Candidates shall study and be assessed in the following modules:

Principles of Earth Sciences Ψ	GEOL1091	20
Earth Materials Ψ	GEOL1021	20
Understanding Earth Sciences Ψ	GEOL1101	20
Field Studies ~ Ψ	GEOL1051	20
Further Mathematics for Geoscientists	GEOL1081	20
Physics for Geoscientists	GEOL1121	20

Level 2 (Diploma)

EITHER (Geology Route)

7. Candidates shall study and be assessed in the following modules:

		Credit value
Fieldwork (Geological) ~ Ψ	GEOL2191	20
Structural Geology and Tectonics Ψ	GEOL2011	20
Sedimentary Environments Ψ	GEOL2031	20
Igneous and Metamorphic Geochemistry and Petrology Ψ	GEOL2231	20

8. Candidates shall also study and be assessed in modules to the value of 20 credits from List C:

List C Ψ:		Credit value
Geophysical Methods for Geoscientists	GEOL2081	20
Geoinformatics	GEOL2281	20

9. Candidates shall also study and be assessed in modules to the value of 20 credits from List C or List D:

List D:		Credit value
Paleoecology Ψ	GEOL2277	10
The Geological Evolution of the British Isles Ψ	GEOL2267	10
Water and Climate	GEOL2171	20
Modelling Earth Processes	GEOL2251	20
Modules up to the value of 20 credits offered by any other Boards of Studies (including appropriate credit-bearing language modules offered by the University's Centre for Foreign Language Study).		20

OR (Environmental Geoscience Route)

10. Candidates shall study and be assessed in the following modules:

		Credit value
Fieldwork (Environmental) ~ Ψ	GEOL2201	20
Water and Climate Ψ	GEOL2171	20
GeoinformaticsΨ	GEOL2281	20
Geophysical Methods for GeoscientistsΨ	GEOL2081	20
Sedimentary Environments Ψ	GEOL2031	20

11. Candidates shall also study and be assessed in modules to the value of 20 credits from List E:

List E:		Credit value
Structural Geology and Tectonics	GEOL2011	20
Paleoecology Ψ	GEOL2277	10
The Geological Evolution of the British Isles Ψ	GEOL2267	10
Igneous and Metamorphic Geochemistry and Petrology	GEOL2231	20
Modelling Earth Processes	GEOL2251	20
Modules up to the value of 20 credits offered by any other Boards of Studies (including appropriate credit-bearing language modules offered by the University's Centre for Foreign Language Study).		20

OR (Geophysics with Geology Route)

12. Candidates shall study and be assessed in the following modules:

		Credit value
Fieldwork (Geophysical) ~ Ψ	GEOL2241	20
Geophysical Methods for GeoscientistsΨ	GEOL2081	20
Geophysical Data Applications Ψ	GEOL2291	20
Structural Geology and Tectonics Ψ	GEOL2011	20

13. Candidates shall also study and be assessed in modules to the value of 40 credits from List F:

List F:		Credit value
Water and Climate	GEOL2171	20
Paleoecology	GEOL2277	10
The Geological Evolution of the British Isles	GEOL2267	10
Igneous and Metamorphic Geochemistry and Petrology Ψ	GEOL2231	20
Sedimentary Environments Ψ	GEOL2031	20
Modelling Earth Processes	GEOL2251	20

Level 3 (Degree)

EITHER (Geology Route)

14. Candidates shall study and be assessed in the following modules:

		Credit value
Dissertation Ψ	GEOL3022	40
Challenges in Geodynamics I Ψ	GEOL3011	20

15. Candidates shall also study and be assessed in modules to the value of 60 credits from the remaining modules offered by the Board of Studies in Earth Sciences.

OR (Environmental Geoscience Route)

16. Candidates shall study and be assessed in the following modules:

		Credit value
Dissertation Ψ	GEOL3022	40
Environmental Geochemistry Ψ	GEOL3041	20
Environmental Management	GEOL3281	20

17. Candidates shall also study and be assessed in 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)

18. Candidates shall study and be assessed in the following modules:

		Credit value
Dissertation Ψ	GEOL3022	40
Petroleum Geophysics Ψ	GEOL3221	20
Earth Structure and Dynamics	GEOL3151	20

19. Candidates shall also study and be assessed in modules to the value of 40 credits from the remaining modules offered by the Board of Studies in Earth Sciences.

Level 4 (Degree)

20. Candidates shall study and be assessed in the following modules:

		Credit value
Research Project Ψ	GEOL4053	60
Frontiers in Earth Science	GEOL4061	20
Earth Science Field Seminar Ψ	GEOL4081	20
Earth Sciences into Society	GEOL4091	20

Assessment, progression and award

21. At Level 1 students are required to attend a residential field course that is usually held in the Easter vacation.
22. At Levels 2 and 3 students are required to attend a field course if specified as part of a module.
23. Modules marked with a ~ must be passed at 40% or above in order to progress to the Ordinary degree at the next Level. A mark of 30-39% cannot be compensated.
24. Students are required to take modules marked with a Φ if they do not have AS-Level Mathematics or equivalent at Grade B or above.

25. Modules marked with a Ψ must be taken by students who wish to study for a degree accredited by the Geological Society. Students who have AS-Level Mathematics at Grade B or above are not required to take [GEOL1061](#).
26. Students who fail to achieve the standard required under the Core Regulations for progression to Level 3 of the MSci Geoscience but who achieve the standard required for progression to Level 3 of a Bachelors programme may progress to Level 3 of the BSc Geology (for students who have taken the Geology route) or BSc Environmental Geosciences (for students who have taken the Environmental Geosciences route) or BSc Geophysics with Geology (for students who have taken the Geophysics with Geology route) at either Honours or Ordinary level in accordance with the Core Regulations.
27. A student who is qualified to progress from Level 2 to Level 3 of the MSci Geoscience but wishes to transfer to Level 3 of the BSc in Geology (for students who have taken the Geology route) or BSc Environmental Geosciences (for students who have taken the Environmental Geosciences route) or BSc Geophysics with Geology (for students who have taken the Geophysics with Geology route) shall be permitted to do so.
28. 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 Geology (for students who have taken the Geology route) or BSc Environmental Geosciences (for students who have taken the Environmental Geosciences route) or BSc Geophysics with Geology (for students who have taken the Geophysics with Geology route) at either Honours or Ordinary level in accordance with the Core Regulations for the award of a Bachelors degree.
29. Students whose achievement at the end of Level 4 does not qualify them to be awarded the degree of MSci Geoscience may be awarded the degree of BSc Geology (for students who have taken the Geology route) or BSc Environmental Geosciences (for students who have taken the Environmental Geosciences route) or BSc Geophysics with Geology (for students who have taken the Geophysics with Geology route) with Honours in accordance with the Core Regulations for the award of a Bachelors degree.

Professional accreditation

30. This programme is 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.