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:

		Credit value
Earth Materials	GEOL1021	20
Field Studies	GEOL1051	20
Principles of Earth Sciences	GEOL1091	20
Understanding Earth Sciences	GEOL1101	20

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

List A:		**Credit value**
Mathematical Methods in Geosciences Φ	GEOL1061	20
Further Mathematics for Geoscientists	GEOL1081	20
Environment and Resources Ψ	GEOL1111	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:

		Credit value
Earth Materials	GEOL1021	20
Field Studies	GEOL1051	20
Understanding Earth Sciences	GEOL1101	20
Environment and Resources	GEOL1111	20

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

List B:		**Credit value**
Mathematical Methods in Geosciences Φ	GEOL1061	20
Further Mathematics for Geoscientists	GEOL1081	20
Principles of Earth Sciences Ψ	GEOL1091	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).		20

OR (Geophysics with Geology Route)

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

		Credit value
Earth Materials	GEOL1021	20
Field Studies	GEOL1051	20
Further Mathematics for Geoscientists	GEOL1081	20
Principles of Earth Sciences	GEOL1091	20

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Understanding Earth Sciences	GEOL1101	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
Structural Geology and Tectonics	GEOL2011	20
Sedimentary Environments	GEOL2031	20
Fieldwork (Geological)	GEOL2191	20
Igneous and Metamorphic Geochemistry and Petrology	GEOL2231	20

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

List C:		**Credit value**
Geophysical Methods for Geoscientists	GEOL2081	20
Water and Climate	GEOL2171	20
Modelling Earth Processes	GEOL2251	20
The Geological Evolution of the British Isles Ψ	GEOL2267	10
Paleoecology Ψ	GEOL2277	10
Geoinformatics Ψ	GEOL2281	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)

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

		Credit value
Sedimentary Environments	GEOL2031	20
Water and Climate	GEOL2171	20
Fieldwork (Environmental)	GEOL2201	20
Geoinformatics	GEOL2281	20

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

List D:		**Credit value**
Structural Geology and Tectonics	GEOL2011	20
Geophysical Methods for Geoscientists Ψ	GEOL2081	20
Igneous and Metamorphic Geochemistry and Petrology	GEOL2231	20
Modelling Earth Processes	GEOL2251	20
The Geological Evolution of the British Isles Ψ	GEOL2267	10
Paleoecology Ψ	GEOL2277	10
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)

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

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

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

List E:		**Credit value**
Sedimentary Environments Ψ	GEOL2031	20

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Water and Climate	GEOL2171	20
Igneous and Metamorphic Geochemistry and Petrology Ψ	GEOL2231	20
Modelling Earth Processes	GEOL2251	20
The Geological Evolution of the British Isles	GEOL2267	10
Paleoecology	GEOL2277	10
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).		

Level 3 (Degree)

EITHER (Geology Route)

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

		Credit value
Challenges in Geodynamics	GEOL3011	20
Dissertation	GEOL3022	40

14. 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)

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

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

16. 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)

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

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

18. 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)

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

		Credit value
Research Project Ψ	GEOL4053	60
Frontiers in Earth Science	GEOL4061	20

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

List F:		**Credit value**
Earth Science Field Seminar Ψ	GEOL4081	20
Earth Sciences into Society	GEOL4091	20
Petroleum Geoscience IV	GEOL4101	20
Environmental Geochemistry IV	GEOL4111	20
Tectonics and Deformation Processes IV	GEOL4121	20
Petroleum Geophysics IV	GEOL4131	20
Earth System and Climate IV	GEOL4141	20
Hydrogeology and Geomechanics IV	GEOL4151	20
Earth Structure and Dynamics IV	GEOL4161	20
Palaeobiology IV	GEOL4171	20

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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. Students are required to take modules marked with a Φ if they do not have AS-Level Mathematics at Grade B or above.
24. All modules marked with a Ψ and, for the Geology route, at least one module marked with a * must be taken by students who wish to study for a degree accredited by the Geological Society.
25. Students who have AS-Level Mathematics at Grade B or above are not entitled 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 2016, subject to students choosing modules to constitute an approved pathway as indicated above.