

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	<a href="#">GEOL1091</a>	20
Earth Materials Ψ	<a href="#">GEOL1021</a>	20
Understanding Earth Sciences Ψ	<a href="#">GEOL1101</a>	20
Field Studies ~ Ψ	<a href="#">GEOL1051</a>	20

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

<b>List A:</b>		<b>Credit value</b>
Environment and Resources Ψ	<a href="#">GEOL1111</a>	20
Mathematical Methods in Geosciences Ψ Φ	<a href="#">GEOL1061</a>	20
Further Mathematics for Geoscientists	<a href="#">GEOL1081</a>	20
Physics for Geoscientists	<a href="#">GEOL1121</a>	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 <a href="#">Centre for Foreign Language Study</a> ).		

##### **OR (Environmental Geoscience Route)**

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

Earth Materials Ψ	<a href="#">GEOL1021</a>	20
Understanding Earth Sciences Ψ	<a href="#">GEOL1101</a>	20
Environment and Resources Ψ	<a href="#">GEOL1111</a>	20
Field Studies ~ Ψ	<a href="#">GEOL1051</a>	20

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

<b>List B:</b>		<b>Credit value</b>
Principles of Earth Sciences Ψ	<a href="#">GEOL1091</a>	20
Mathematical Methods in Geosciences Ψ Φ	<a href="#">GEOL1061</a>	20
Further Mathematics for Geoscientists	<a href="#">GEOL1081</a>	20
Physics for Geoscientists	<a href="#">GEOL1121</a>	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 <a href="#">Centre for Foreign Language Study</a> ).		

##### **OR (Geophysics with Geology Route)**

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

Principles of Earth Sciences Ψ	<a href="#">GEOL1091</a>	20
Earth Materials Ψ	<a href="#">GEOL1021</a>	20
Understanding Earth Sciences Ψ	<a href="#">GEOL1101</a>	20
Field Studies ~ Ψ	<a href="#">GEOL1051</a>	20
Further Mathematics for Geoscientists	<a href="#">GEOL1081</a>	20
Physics for Geoscientists	<a href="#">GEOL1121</a>	20

## Level 2 (Diploma)

### EITHER (Geology Route)

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

		<b>Credit value</b>
Fieldwork (Geological) ~ Ψ	<a href="#">GEOL2191</a>	20
Structural Geology and Tectonics Ψ	<a href="#">GEOL2011</a>	20
Sedimentary Environments Ψ	<a href="#">GEOL2031</a>	20
Igneous and Metamorphic Geochemistry and Petrology Ψ	<a href="#">GEOL2231</a>	20

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

<b>List C:</b>		<b>Credit value</b>
Geophysical Methods for Geoscientists *	<a href="#">GEOL2081</a>	20
Geoinformatics *	<a href="#">GEOL2281</a>	20
Paleoecology Ψ	<a href="#">GEOL2277</a>	10
The Geological Evolution of the British Isles Ψ	<a href="#">GEOL2267</a>	10
Water and Climate	<a href="#">GEOL2171</a>	20
Modelling Earth Processes	<a href="#">GEOL2251</a>	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 <a href="#">Centre for Foreign Language Study</a> ).		20

### OR (Environmental Geoscience Route)

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

		<b>Credit value</b>
Fieldwork (Environmental) ~ Ψ	<a href="#">GEOL2201</a>	20
Water and Climate Ψ	<a href="#">GEOL2171</a>	20
GeoinformaticsΨ	<a href="#">GEOL2281</a>	20
Sedimentary Environments Ψ	<a href="#">GEOL2031</a>	20

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

<b>List E:</b>		<b>Credit value</b>
Geophysical Methods for GeoscientistsΨ	<a href="#">GEOL2081</a>	20
Structural Geology and Tectonics	<a href="#">GEOL2011</a>	20
Paleoecology Ψ	<a href="#">GEOL2277</a>	10
The Geological Evolution of the British Isles Ψ	<a href="#">GEOL2267</a>	10
Igneous and Metamorphic Geochemistry and Petrology	<a href="#">GEOL2231</a>	20
Modelling Earth Processes	<a href="#">GEOL2251</a>	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 <a href="#">Centre for Foreign Language Study</a> ).		20

### OR (Geophysics with Geology Route)

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

		<b>Credit value</b>
Fieldwork (Geophysical) ~ Ψ	<a href="#">GEOL2241</a>	20
Geophysical Methods for GeoscientistsΨ	<a href="#">GEOL2081</a>	20
Geophysical Data Applications Ψ	<a href="#">GEOL2291</a>	20
Structural Geology and Tectonics Ψ	<a href="#">GEOL2011</a>	20

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

<b>List F:</b>		<b>Credit value</b>
Water and Climate	<a href="#">GEOL2171</a>	20
Paleoecology	<a href="#">GEOL2277</a>	10
The Geological Evolution of the British Isles	<a href="#">GEOL2267</a>	10
Igneous and Metamorphic Geochemistry and Petrology Ψ	<a href="#">GEOL2231</a>	20
Sedimentary Environments Ψ	<a href="#">GEOL2031</a>	20
Modelling Earth Processes	<a href="#">GEOL2251</a>	20

### **Level 3 (Degree)**

#### **EITHER (Geology Route)**

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

		<b>Credit value</b>
Dissertation Ψ	<a href="#">GEOL3022</a>	40
Challenges in Geodynamics I Ψ	<a href="#">GEOL3011</a>	20

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:

		<b>Credit value</b>
Dissertation Ψ	<a href="#">GEOL3022</a>	40
Environmental Geochemistry Ψ	<a href="#">GEOL3041</a>	20
Environmental Management	<a href="#">GEOL3281</a>	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:

		<b>Credit value</b>
Dissertation Ψ	<a href="#">GEOL3022</a>	40
Petroleum Geophysics Ψ	<a href="#">GEOL3221</a>	20
Earth Structure and Dynamics	<a href="#">GEOL3151</a>	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:

		<b>Credit value</b>
Research Project Ψ	<a href="#">GEOL4053</a>	60
Frontiers in Earth Science	<a href="#">GEOL4061</a>	20
Earth Science Field Seminar Ψ	<a href="#">GEOL4081</a>	20
Earth Sciences into Society	<a href="#">GEOL4091</a>	20

### **Assessment, progression and award**

20. At Level 1 students are required to attend a residential field course that is usually held in the Easter vacation.

21. At Levels 2 and 3 students are required to attend a field course if specified as part of a module.

22. 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.

23. 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.

24. All modules marked with a  $\Psi$  and, for the Geology route, at least one module marked with an \* 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 2010, subject to students choosing modules to constitute an approved pathway as indicated above.