

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](#).

### BSc Natural Sciences (CFG0)

1. This programme is available at Durham City, in a full-time mode of study.
2. All module selections must be approved by the Deputy Head of Faculty (Natural Sciences) and be compatible in the timetable.
3. At Level 1 students take modules from at least two and no more than four subjects, to a maximum of 80 credits per subject.
4. At Level 2 students take modules from at least two and no more than four subjects, to a maximum of 80 credits per subject.
5. At Level 3 students take modules from at least two and no more than three subjects, to a maximum of 100 credits per subject.
6. Within the Natural Sciences programme certain combinations of modules are known as "Joint Honours degrees". Students who follow these combinations of modules will be awarded a specific title for their degree.
7. Students who follow an approved Joint Honours degree will be awarded a BSc Honours in A and B within the Natural Sciences programme, where A and B are replaced by the approved subject titles. Normally each subject will have a single subject title.
8. In order to qualify for the degree BSc Honours in A and B within the Natural Sciences programme, students in Levels 2 and 3 must select modules from the same two subjects and the number of credits in either subject cannot exceed 80 in each of Levels 2 and 3. In the following table the following abbreviations apply:

An	Anthropology	Ec	Economics
Ar	Archaeology	Gg	Geography
Bi	Biology	Ma	Mathematics
Bs	Business	Ph	Philosophy
Ch	Chemistry	Py	Physics
CS	Computer Science	Ps	Psychology
ES	Earth Sciences	St	Statistics

The following combinations are currently available:

	An	Ar	Bi	Bs	Ch	CS	ES	Ec	Gg	Ma	Ph	Py	Ps	St
An			•										•	
Ar							•							
Bi	•				•		•		•	•			•	
Bs						•								
Ch			•				•			•		•		
CS				•						•		•		
ES		•	•		•				•	•				
Ec										•			•	
Gg			•				•			•			•	•
Ma			•		•	•	•	•	•		•	•	•	
Ph										•		•		
Py					•	•			•	•				
Ps	•		•			•		•	•	•				•
St									•					•

**Table 1: Joint Honours Combinations available in the A and B degree**

The table above shows the combinations that are currently available (an • indicates that combining these two subjects is possible and the abbreviations represent the subjects in the above list)

9. The degree certificate issued to successful students who have taken a BSc Natural Sciences degree shall list all subjects in which they have taken at least 40 credits during Levels 2 and 3 of the degree programme.
10. Students studying for a BSc Natural Sciences degree must take modules to the value of at least 180 credits from the Faculty of Science over the three years of study. Students studying for a Joint Honours degree are exempt from the requirement. The subjects within the Faculty of Science are: Biology, Chemistry, Computer Science, Earth Sciences, Mathematics, Physics, Psychology and Statistics.

### Anthropology Modules Available to Natural Sciences Students

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

<b>Level 1</b>		<b>Credit value</b>
Human Origins and Diversity	<a href="#">ANTH1071</a>	20
Peoples and Cultures	<a href="#">ANTH1061</a>	20
<b>Level 2</b>		
Evolutionary Anthropology	<a href="#">ANTH2061</a>	20
Human Ecology, Genetics and Health	<a href="#">ANTH2011</a>	20
Biology, Culture and Society	<a href="#">ANTH2021</a>	20
Methods and Explanations	<a href="#">ANTH2031</a>	20
Political and Economic Organisation	<a href="#">ANTH2051</a>	20
Kinship and Belief Systems	<a href="#">ANTH2041</a>	20
<b>Level 3</b>		
Business Anthropology	<a href="#">ANTH3041</a>	20
Change and Development	<a href="#">ANTH3111</a>	20
Current Issues in Sociocultural Anthropology	<a href="#">ANTH3011</a>	20
Dissertation in Anthropology	<a href="#">ANTH3141</a>	20
Material Culture	<a href="#">ANTH3081</a>	20
Nutritional and Disease Ecology	<a href="#">ANTH3151</a>	20
Palaeoanthropology	<a href="#">ANTH3061</a>	20
Recent Developments in Biological Anthropology	<a href="#">ANTH3171</a>	20
Anthropology of Science and Ethics	<a href="#">HUSS3141</a>	20
Mental Health, Illness and Drug Use	<a href="#">HUSS3241</a>	20
Power and Governance	<a href="#">HUSS3501</a>	20
Understanding Behaviour	<a href="#">HUSS3301</a>	20

12. Students studying for BSc Joint Honours degrees involving Anthropology are required to take the following modules:

<b>Level 1</b>	Human Origins and Diversity	<a href="#">ANTH1071</a>
	People and Cultures	<a href="#">ANTH1061</a>
<b>Level 2</b>	<b>All students are required to take at least:</b>	
	Evolutionary Anthropology	<a href="#">ANTH2061</a>
	<b>AND/ OR</b> Human Ecology, Genetics and Health	<a href="#">ANTH2011</a>
<b>Level 3</b>	All students can take up to four modules from the Level 3 Anthropology modules. If three or more Anthropology modules are taken, one of the modules can be at Level 2.	

### Archaeology Modules Available to Natural Sciences Students

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

<b>Level 1</b>		<b>Credit value</b>
Ancient Civilisations of the East	<a href="#">ARCH1111</a>	20
Discovering World Prehistory	<a href="#">ARCH1121</a>	20
From Roman Empire to Nation State	<a href="#">ARCH1101</a>	20
Introduction to Archaeology	<a href="#">ARCH1071</a>	20
Scientific Methods in Archaeology 1	<a href="#">ARCH1041</a>	20
<b>Level 2</b>		
Ancient Empires of the East	<a href="#">ARCH2141</a>	20
Scientific Methods in Archaeology 2	<a href="#">ARCH2041</a>	20
Archaeology of Medieval and Post-Medieval Britain in its European Context	<a href="#">ARCH2131</a>	20

Experimental Methods of Archaeological Science (EMAS)	<a href="#">ARCH2111</a>	20
Field Archaeology of Britain	<a href="#">ARCH2101</a>	20
Mediterranean Expansion: Rome and Native Societies	<a href="#">ARCH2091</a>	20
Prehistoric Europe: from Foragers to State Formation	<a href="#">ARCH2081</a>	20
<b>Level 3</b>		
Archaeological Surveying †	<a href="#">ARCH3491</a>	20
Archaeology Dissertation	<a href="#">ARCH3371</a>	20
Bones and Human Societies †	<a href="#">ARCH3461</a>	20
Palaeoethnobotany: Plants and Human Societies	<a href="#">ARCH3551</a>	20
Scientific Methods in Archaeology 3	<a href="#">ARCH3051</a>	20
Specialised Aspects in Archaeology (20 Credits)	<a href="#">ARCH3451</a>	20
Specialised Aspects in Archaeology (40 Credits)	<a href="#">ARCH3472</a>	40
Dissertation	<a href="#">ARCH4003</a>	60

14. Students studying for BSc Joint Honours degrees involving Archaeology are required to take the following modules:

<b>Level 1</b>	Scientific Methods in Archaeology 1 <b>Plus at least 20 credits from the following:</b> Discovering World Prehistory From Roman Empire to Nation State Ancient Civilisations of the East If modules to the value of 60 credits or more in Archaeology are taken, the third 20 credit module must be ARCH1071 Introduction to Archaeology.	<a href="#">ARCH1041</a> <a href="#">ARCH1121</a> <a href="#">ARCH1101</a> <a href="#">ARCH1111</a>
<b>Level 2</b>	Scientific Methods in Archaeology 2 <b>AND</b> modules up to the value of 60 credits from the Level 2 Archaeology modules listed above. If modules to the value of 60 credits or more are taken, one 20 credit module can be at Level 1, unless Level 1 modules to the value of 80 credits have been taken	<a href="#">ARCH2041</a>
<b>Level 3</b>	Scientific Methods in Archaeology 3 <b>AND</b> modules up to the value of 60 credits from the Level 3 Archaeology modules listed above. If modules to the value of 60 credits or more are taken then Archaeology Dissertation (20 credits) must be taken, unless a dissertation module is being taken in the other subject	<a href="#">ARCH3051</a> <a href="#">ARCH3371</a>

### Biology Modules Available to Natural Sciences Students

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

		Credit value
<b>Level 1</b>		
Diversity of Life	<a href="#">BIOL1121</a>	20
Cells, Tissues and Systems	<a href="#">BIOL1081</a>	20
Introduction to Plants, Animals and Ecology	<a href="#">BIOL1131</a>	20
Genetics	<a href="#">BIOL1111</a>	20
Molecular Basis of Life	<a href="#">BIOL1071</a>	20
Chemistry for the Biosciences	<a href="#">BIOL1141</a>	20
<b>Level 2</b>		
Animal Physiology	<a href="#">BIOL2351</a>	20
Behaviour	<a href="#">BIOL2391</a>	20
Biochemistry	<a href="#">BIOL2381</a>	20
Cell Structure and Function	<a href="#">BIOL2341</a>	20
Development	<a href="#">BIOL2361</a>	20
Ecology	<a href="#">BIOL2411</a>	20
Evolutionary Biology	<a href="#">BIOL2331</a>	20
Plant Physiology	<a href="#">BIOL2401</a>	20
Molecular Biology	<a href="#">BIOL2371</a>	20
<b>Level 3</b>		
Ageing	<a href="#">BIOL3501</a>	20
Behavioural and Evolutionary Ecology	<a href="#">BIOL3561</a>	20
Biology into Schools	<a href="#">BIOL3431</a>	20
Biotechnology	<a href="#">BIOL3511</a>	20

Cell Architecture	<a href="#">BIOL3481</a>	20
Conservation Biology	<a href="#">BIOL3551</a>	20
Genes and Development	<a href="#">BIOL3521</a>	20
Global Change Biology	<a href="#">BIOL3541</a>	20
Literature Review	<a href="#">BIOL3451</a>	20
Stress and Responses to the Environment	<a href="#">BIOL3491</a>	20
Stem Cells and Tissue Engineering	<a href="#">BIOL3531</a>	20
16. There are two Joint Honours routes through Biological Sciences: the Whole Organisms route and the Cell Biology route.		
17. Students studying for BSc Joint Honours degrees in the Whole Organisms route are required to take the following modules:		
<b>Level 1</b>	Diversity of Life	<a href="#">BIOL1121</a>
	Introduction to Plants, Animals and Ecology	<a href="#">BIOL1131</a>
<b>Level 2</b>	Evolutionary Biology	<a href="#">BIOL2331</a>
	Ecology	<a href="#">BIOL2411</a>
	<b>Students taking three Level 2 modules must also take:</b>	
	Behaviour	<a href="#">BIOL2391</a>
<b>Level 3</b>	<b>If two modules are taken they must be picked from:</b>	
	Behavioural and Evolutionary Biology	<a href="#">BIOL3561</a>
	Conservation Biology	<a href="#">BIOL3551</a>
	Global Change Biology	<a href="#">BIOL3541</a>
	<b>If three or more modules are taken they must be picked from:</b>	
	Behavioural and Evolutionary Biology	<a href="#">BIOL3561</a>
	Biology into Schools	<a href="#">BIOL3431</a>
	Conservation Biology	<a href="#">BIOL3551</a>
	Global Change Biology	<a href="#">BIOL3541</a>
	Literature Review	<a href="#">BIOL3451</a>
	<b>If three modules are taken</b> then <a href="#">BIOL3451</a> Literature Review and <a href="#">BIOL3431</a> Biology into Schools cannot be taken together	
18. Students studying for BSc Joint Honours degrees in the Cell Biology route are required to take the following modules:		
<b>Level 1</b>	Genetics	<a href="#">BIOL1111</a>
	<b>Students following a BSc Joint Honours degree with Chemistry:</b>	
	Molecular Basis of Life	<a href="#">BIOL1071</a>
	<b>Other students:</b>	
	Cells, Tissues and Systems	<a href="#">BIOL1081</a>
<b>Level 2</b>	<b>Students following a BSc Joint Honours degree with Chemistry:</b>	
	Animal Physiology	<a href="#">BIOL2351</a>
	Plant Physiology	<a href="#">BIOL2401</a>
	Biochemistry	<a href="#">BIOL2381</a>
	<b>Other students taking two Level 2 modules:</b>	
	Molecular Biology	<a href="#">BIOL2371</a>
	Cell Structure and Function	<a href="#">BIOL2341</a>
	<b>Other students taking three or more Level 2 modules:</b>	
	Molecular Biology	<a href="#">BIOL2371</a>
	Cell Structure and Function	<a href="#">BIOL2341</a>
	Development	<a href="#">BIOL2361</a>
	<b>Students taking four Level 2 modules must also pick one of:</b>	
	Animal Physiology	<a href="#">BIOL2351</a>
	Plant Physiology	<a href="#">BIOL2401</a>
<b>Level 3</b>	<b>Students following a BSc Joint Honours degree with Chemistry:</b>	
	Molecular Biology	<a href="#">BIOL2371</a>
	Stress and Responses to the Environment	<a href="#">BIOL3491</a>
	<b>And either</b> Biotechnology	<a href="#">BIOL3511</a>
	<b>Or</b> Literature Review	<a href="#">BIOL3451</a>
	<b>Other students taking two Level 3 modules:</b>	
	Ageing	<a href="#">BIOL3501</a>
	Cell Architecture	<a href="#">BIOL3481</a>

**Other students taking three or more Level 3 modules should pick from:**

Ageing	<a href="#">BIOL3501</a>
Biology into Schools	<a href="#">BIOL3431</a>
Cell Architecture	<a href="#">BIOL3481</a>
Genes and Development	<a href="#">BIOL3521</a>
Literature Review	<a href="#">BIOL3451</a>
Stress and Responses to the Environment	<a href="#">BIOL3491</a>
Stem Cells and Tissue Engineering	<a href="#">BIOL3531</a>

**If three modules are taken** then [BIOL3451](#) Literature Review and [BIOL3431](#) Biology into Schools cannot be taken together

### Business Modules Available to Natural Sciences Students

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

		Credit value
<b>Level 1</b>		
Enterprise and Business Development	<a href="#">BUSI1121</a>	20
Introduction to Entrepreneurship	<a href="#">BUSI1111</a>	20
People, Management and Organisations	<a href="#">BUSI1??1</a>	20
Marketing Principles	<a href="#">BUSI1??1</a>	20
Business Accounting and Finance	<a href="#">ECON1041</a>	20
Economic Methods	<a href="#">ECON1021</a>	20
Elements of Economics	<a href="#">ECON1011</a>	20
The World Economy	<a href="#">ECON1071</a>	20
Introduction to the History of Economic Thought	<a href="#">ECON1??1</a>	20
<b>Level 2</b>		
Marketing Management	<a href="#">BUSI2111</a>	20
Organisational Behaviour	<a href="#">BUSI2121</a>	20
<b>Level 3</b>		
Asia and the Pacific Rim	<a href="#">BUSI3041</a>	20
Dissertation in Business (20 Credits)	<a href="#">BUSI3091</a>	20
Dissertation in Business (40 Credits)	<a href="#">BUSI3122</a>	40
Marketing Research	<a href="#">BUSI3141</a>	20
Public Administration and Management	<a href="#">BUSI3031</a>	20
Consumer Psychology	<a href="#">BUSI3131</a>	20
Corporate Governance	<a href="#">BUSI3061</a>	20
Work and Organisation	<a href="#">BUSI3151</a>	20

20. Students studying for BSc Joint Honours degrees involving Business are required to take the following modules:

<b>Level 1</b>	People, Management and Organisations	<a href="#">BUSI1??1</a>
	Elements of Economics	<a href="#">ECON1011</a>
<b>Level 2</b>	Modules taken from the Level 2 Business module list above	
<b>Level 3</b>	Modules taken from the Level 3 Business module list above	

### Chemistry Modules Available to Natural Sciences Students

21. Candidates may study and be assessed in the following modules:

		Credit value
<b>Level 1</b>		
Core Chemistry 1A	<a href="#">CHEM1012</a>	40
Core Chemistry 1B	<a href="#">CHEM1022</a>	40
Molecules in Action	<a href="#">CHEM1061</a>	20
<b>Level 2</b>		
Biological Chemistry	<a href="#">CHEM2051</a>	20
Chemistry of the Elements	<a href="#">CHEM2021</a>	20
Computational Chemistry	<a href="#">CHEM2061</a>	20
Core Chemistry 2	<a href="#">CHEM2012</a>	40
Properties of Molecules	<a href="#">CHEM2041</a>	20
Structure and Reactivity in Organic Chemistry	<a href="#">CHEM2031</a>	20
<b>Level 3</b>		
Advanced Computational Chemistry	<a href="#">CHEM3071</a>	20

Advanced Organic Chemistry	<a href="#">CHEM3031</a>	20
Chemistry and Society	<a href="#">CHEM3061</a>	20
Core Chemistry 3	<a href="#">CHEM3012</a>	40
Inorganic Concepts and Applications	<a href="#">CHEM3021</a>	20
Materials Chemistry	<a href="#">CHEM3051</a>	20
Molecules and their Interactions	<a href="#">CHEM3041</a>	20

22. Students studying for BSc Joint Honours degrees involving Chemistry are required to take the following modules:

<b>Level 1</b>	Core Chemistry 1A	<a href="#">CHEM1012</a>
<b>Level 2</b>	Core Chemistry 2	<a href="#">CHEM2012</a>
<b>Students taking 60 credits or more at Level 2 must take at least one of the following modules:</b>		
	Chemistry of the Elements	<a href="#">CHEM2021</a>
	Structure and Reactivity in Organic Chemistry	<a href="#">CHEM2031</a>
	Properties of Molecules	<a href="#">CHEM2041</a>
<b>Level 3</b>	Core Chemistry 3	<a href="#">CHEM3012</a>

### Computer Science Modules Available to Natural Sciences Students

23. Candidates may study and be assessed in the following modules:

		Credit value
<b>Level 1</b>		
Computer Systems	<a href="#">COMP1071</a>	20
Data Structures	<a href="#">COMP1081</a>	20
Formal Aspects of Computer Science	<a href="#">COMP1021</a>	20
Introduction to Programming	<a href="#">COMP1011</a>	20
<b>Level 2</b>		
Computer Systems II	<a href="#">COMP2161</a>	20
Programming and Reasoning	<a href="#">COMP2171</a>	20
Software Applications	<a href="#">COMP2071</a>	20
Software Engineering	<a href="#">COMP2092</a>	20
Systems Thinking	<a href="#">COMP2111</a>	20
Theory of Computation	<a href="#">COMP2181</a>	20
Web Engineering	<a href="#">COMP2091</a>	20
<b>Level 3</b>		
Advanced Artificial Intelligence (20 credits)	<a href="#">COMP3311</a>	20
Advanced Computer Systems	<a href="#">COMP3121</a>	20
Advanced Software Applications and Methods (20 credits)	<a href="#">COMP3331</a>	20
Advanced Software Engineering (20 credits)	<a href="#">COMP3221</a>	20
Advanced Software Engineering (40 credits)	<a href="#">COMP3152</a>	40
Advanced Theory of Computation (20 credits)	<a href="#">COMP3341</a>	20
Advanced Theory of Computation (40 credits)	<a href="#">COMP3342</a>	40
Computer Science Project	<a href="#">COMP3012</a>	40
Software Engineering Project	<a href="#">COMP3282</a>	40

24. Students studying for BSc Joint Honours degrees involving Computer Science are required to take the following modules:

<b>Level 1</b>	Introduction to Programming	<a href="#">COMP1011</a>
	Formal Aspects of Computer Science	<a href="#">COMP1021</a>
<b>Level 2</b>	Modules selected from the Level 2 Computer Science modules listed above	
<b>Level 3</b>	Modules selected from the Level 2 and Level 3 Computer Science modules listed above	

### Earth Sciences Modules Available to Natural Sciences Students

25. Candidates may study and be assessed in the following modules:

		Credit value
<b>Level 1</b>		
Earth Materials	<a href="#">GEOL1021</a>	20
Field Studies	<a href="#">GEOL1051</a>	20
Further Mathematics in Geoscience	<a href="#">GEOL1081</a>	20

Principles of Earth Sciences	<a href="#">GEOL1091</a>	20
Mathematical Methods in Geoscience	<a href="#">GEOL1061</a>	20
Understanding Earth Sciences	<a href="#">GEOL1101</a>	20
Environment and Resources	<a href="#">GEOL1111</a>	20
Physics for Geoscientists	<a href="#">GEOL1121</a>	20

#### Level 2

Earth Visualisation L2	<a href="#">GEOL2221</a>	20
Fieldwork (Environmental)	<a href="#">GEOL2201</a>	20
Fieldwork (Geophysical)	<a href="#">GEOL2241</a>	20
Fieldwork (Geological)	<a href="#">GEOL2191</a>	20
Fossils and Dynamic Stratigraphy of the British Isles	<a href="#">GEOL2051</a>	20
Geophysical Methods in Geology	<a href="#">GEOL2081</a>	20
Igneous and Metamorphic Geochemistry and Petrology	<a href="#">GEOL2231</a>	20
Sedimentary Environments	<a href="#">GEOL2031</a>	20
Structural Geology and Tectonics	<a href="#">GEOL2011</a>	20
Water and Climate	<a href="#">GEOL2171</a>	20
Modelling Earth Processes II	<a href="#">GEOL2251</a>	20

#### Level 3

Dissertation	<a href="#">GEOL3022</a>	40
Dynamic Earth I	<a href="#">GEOL3011</a>	20
Dynamic Earth II	<a href="#">GEOL3181</a>	20
Earth Sciences into Schools	<a href="#">GEOL3251</a>	20
Earth Structure and Dynamics	<a href="#">GEOL3151</a>	20
Earth System and Climate	<a href="#">GEOL3231</a>	20
Environmental Geochemistry	<a href="#">GEOL3041</a>	20
Evolutionary Palaeobiology	<a href="#">GEOL3071</a>	20
Magmatism	<a href="#">GEOL3051</a>	20
Modelling Earth Processes	<a href="#">GEOL3261</a>	20
Petroleum Geophysics	<a href="#">GEOL3221</a>	20
Rheology and Deformation Processes	<a href="#">GEOL3091</a>	20
Sedimentary and Petroleum Systems	<a href="#">GEOL3031</a>	20

26. There are two Joint Honours routes through Earth Sciences: the Geological Sciences route and the Geophysics route.

27. Students studying for BSc Joint Honours degrees in the Geological Sciences route are required to take the following modules:

<b>Level 1</b>	Principles of Earth Sciences	<a href="#">GEOL1091</a>
	Earth Materials	<a href="#">GEOL1021</a>

**To obtain accreditation the following modules must be taken at either Level 1 or Level 2:**

<b>Level 2</b>	Field Studies	<a href="#">GEOL1051</a>
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**To obtain accreditation modules to the value of 60 credits or more must be taken and must include (the latter module may be taken at level 1):**

<b>Level 3</b>	Fieldwork (Geological)	<a href="#">GEOL2191</a>
	Environment and Resources (if not already taken)	<a href="#">GEOL1111</a>

**To obtain accreditation modules to the value of 80 credits or more must be taken and must include:**

<b>Level 3</b>	Dissertation	<a href="#">GEOL3022</a>
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28. Students studying for BSc Joint Honours degrees in the Geophysics route are required to take the following modules:

<b>Level 1</b>	Principles of Earth Sciences	<a href="#">GEOL1091</a>
	Earth Materials	<a href="#">GEOL1021</a>
	(Single Mathematics A <b>AND</b>	<a href="#">MATH1561</a>

	Single Mathematics B)	<a href="#">MATH1571</a>
	<b>OR</b>	
	(Mathematics for Scientists and Engineers	<a href="#">MATH1551</a>
	<b>OR</b> Core Mathematics A	<a href="#">MATH1012</a>
	<b>OR</b> Mathematical Methods in Geoscience)	<a href="#">GEOL1061</a>
<b>Level 2</b>	Geophysical Methods in Geology	<a href="#">GEOL2081</a>
	Fieldwork (Geophysical)	<a href="#">GEOL2241</a>
<b>Level 3</b>	Dissertation	<a href="#">GEOL3022</a>
	Petroleum Geophysics	<a href="#">GEOL3221</a>
	Earth Structure and Dynamics	<a href="#">GEOL3151</a>

### Economics Modules Available to Natural Sciences Students

29. Candidates may study and be assessed in the following modules:

		Credit value
<b>Level 1</b>		
Business Accounting and Finance	<a href="#">ECON1041</a>	20
Economic Methods	<a href="#">ECON1021</a>	20
Elements of Economics	<a href="#">ECON1011</a>	20
Introduction to Environmental Economics	<a href="#">ECON1051</a>	20
The World Economy	<a href="#">ECON1071</a>	20
<b>Level 2</b>		
Behavioural and Experimental Economics	<a href="#">ECON2??1</a>	20
Business Competition	<a href="#">ECON2081</a>	20
Corporate Finance	<a href="#">ECON2101</a>	20
Economic Data Analysis	<a href="#">ECON2061</a>	20
Economic Principles I: Macroeconomics	<a href="#">ECON2011</a>	20
Economic Principles II: Microeconomics	<a href="#">ECON2021</a>	20
Economics of Social Policy	<a href="#">ECON2091</a>	20
European Economics	<a href="#">ECON2071</a>	20
Intermediate Methods for Economics and Finance	<a href="#">ECON2121</a>	20
<b>Level 3</b>		
Advanced Macroeconomic Theory	<a href="#">ECON3211</a>	20
Advanced Microeconomic Theory	<a href="#">ECON3201</a>	20
Applied Econometrics	<a href="#">ECON3011</a>	20
Development Economics	<a href="#">ECON3171</a>	20
Dissertation in Economics	<a href="#">ECON3012</a>	40
Financial Theory and Corporate Policy	<a href="#">ECON3251</a>	20
History of Economic Thought	<a href="#">ECON3051</a>	20
Industrial Organisation	<a href="#">ECON3061</a>	20
International Economics	<a href="#">ECON3071</a>	20
Labour Economics	<a href="#">ECON3081</a>	20
Monetary Economics	<a href="#">ECON3111</a>	20
Public Economics	<a href="#">ECON3191</a>	20
Security Investment Analysis	<a href="#">ECON3241</a>	20

30. Students studying for BSc Joint Honours degrees involving Economics are required to take the following modules:

<b>Level 1</b>	Elements of Economics	<a href="#">ECON1011</a>
	Economic Methods	<a href="#">ECON1021</a>
	<b>If any Level 1 Maths modules are taken the following module should be taken in place of ECON1021:</b>	
	The British Economy	<a href="#">ECON1031</a>
<b>Level 2</b>	Economic Principles I: Macroeconomics	<a href="#">ECON2011</a>
	Economic Principles II: Microeconomics	<a href="#">ECON2021</a>
<b>Level 3</b>	Modules selected from the Level 3 Economics modules listed above. If modules to the value of 60 credits are take, one 20 credit module can be at Level 2	



## Geography Modules Available to Natural Sciences Students

31. Candidates may study and be assessed in the following modules:

		<b>Credit value</b>
<b>Level 1</b>		
Cities	<a href="#">GEOG1211</a>	20
Environment and Society	<a href="#">GEOG1061</a>	20
Human Geography: Space and Place in a Changing World	<a href="#">GEOG1071</a>	20
Introduction to Geographical Research (BSc)	<a href="#">GEOG1232</a>	40
Physical Geography: Earth Systems Science	<a href="#">GEOG1081</a>	20
<b>Level 2</b>		
Development, Society and the Environment	<a href="#">GEOG2541</a>	20
Environmental Processes and Management	<a href="#">GEOG2551</a>	20
Fluvial Systems	<a href="#">GEOG2521</a>	20
GIS and Remote Sensing	<a href="#">GEOG2591</a>	20
Glaciers and Glaciation	<a href="#">GEOG2531</a>	20
Global Climate Change	<a href="#">GEOG2571</a>	20
Mountain Landscapes	<a href="#">GEOG2611</a>	20
Political Geography	<a href="#">GEOG2581</a>	20
Reconstructing Environmental Change	<a href="#">GEOG2601</a>	20
Scientific Research in Geography	<a href="#">GEOG2462</a>	40
Social and Cultural Geography	<a href="#">GEOG2561</a>	20
Theory and Concepts in Human Geography	<a href="#">GEOG2621</a>	20
Urban Geography	<a href="#">GEOG2511</a>	20
<b>Level 3</b>		
Dissertation (40 credits) in Geography A	<a href="#">GEOG3232</a>	40
Dissertation (40 credits) in Geography B	<a href="#">GEOG3432</a>	40
Environmental Processes of Change: Field Case Studies	<a href="#">GEOG3491</a>	20
Environmental Remote Sensing	<a href="#">GEOG3261</a>	20
Geographies of Health and Healthcare	<a href="#">GEOG3631</a>	20
Remaking Urban Landscapes	<a href="#">GEOG3741</a>	20
Hazard and Risk	<a href="#">GEOG3621</a>	20
Glacial Sedimentary Environments	<a href="#">GEOG3711</a>	20
Politics/ Space: Drawing Lines, Writing the World	<a href="#">GEOG3661</a>	20
River Dynamics	<a href="#">GEOG3461</a>	20
Sea-Level Change and Coastal Evolution	<a href="#">GEOG3191</a>	20
Specialised Aspects of Human Geography	<a href="#">GEOG3221</a>	20
Specialised Aspects of Physical Geography	<a href="#">GEOG3431</a>	20
Territory and Geopolitics *	<a href="#">GEOG3581</a>	20
The Quaternary of Glaciated Regions	<a href="#">GEOG3511</a>	20
Urban Transformations in the New Europe	<a href="#">GEOG3501</a>	20

32. Students studying for BSc Joint Honours degrees involving Geography are required to take the following modules:

<b>Level 1 Two 20 credit modules from the following:</b>		
Physical Geography		<a href="#">GEOG1081</a>
Human Geography		<a href="#">GEOG1071</a>
Introduction to Geographical Research (BSc)		<a href="#">GEOG1232</a>
Environment and Society		<a href="#">GEOG1061</a>
Cities		<a href="#">GEOG1211</a>
<b>Level 2</b>		
Scientific Research in Geography <b>OR</b>		<a href="#">GEOG2462</a>
(Social Research in Geography <b>AND</b>		<a href="#">GEOG2472</a>
Theory and Concepts in Contemporary Human Geography)		<a href="#">GEOG2621</a>

**Students who take GEOG2462 must select between 20 and 40 credits from the following:**

Environmental Processes and Management	<a href="#">GEOG2551</a>
Fluvial Systems	<a href="#">GEOG2521</a>
GIS and Remote Sensing	<a href="#">GEOG2591</a>
Glaciers and Glaciation	<a href="#">GEOG2531</a>
Global Climate Change	<a href="#">GEOG2571</a>
Mountain Landscapes	<a href="#">GEOG2611</a>

Reconstructing Environmental Change [GEOG2601](#)

**Students who take GEOG2472 and GEOG2621 may select 20 credits from the following:**

Development, Society and the Environment [GEOG2541](#)  
Environmental Processes and Management [GEOG2551](#)  
GIS and Remote Sensing [GEOG2591](#)  
Political Geography [GEOG2581](#)  
Social and Cultural Geography [GEOG2561](#)  
Urban Geography [GEOG2511](#)

**Level 3 Students who took GEOG2462 in Year 2 must select modules from the following:**

Dissertation (40 credits) in Geography B [GEOG3432](#)  
Environmental Processes of Change: Field Case Studies [GEOG3491](#)  
Environmental Remote Sensing [GEOG3261](#)  
Hazard and Risk [GEOG3621](#)  
Glacial Sedimentary Environments [GEOG3711](#)  
River Dynamics [GEOG3461](#)  
Sea-Level Change and Coastal Erosion [GEOG3191](#)  
Specialised Aspects of Physical Geography [GEOG3431](#)  
The Quaternary of Glaciated Regions [GEOG3511](#)

**Students who took GEOG2472 and GEOG2621 in Year 2 must select from the following:**

Dissertation (40 credits) in Geography A [GEOG3232](#)  
Environmental Remote Sensing [GEOG3261](#)  
Geographies of Health and Social Care [GEOG3631](#)  
Remaking Urban Landscapes [GEOG3741](#)  
Hazard and Risk [GEOG3621](#)  
Politics/ Space: Drawing Lines, Writing the World [GEOG3661](#)  
Specialised Aspects of Human Geography [GEOG3431](#)  
Territory and Geopolitics [GEOG3581](#)  
Urban Transformations in the New Europe [GEOG3501](#)

### Mathematics Modules Available to Natural Sciences Students

33. Candidates may study and be assessed in the following modules:

		Credit value
<b>Level 1</b>		
Core Mathematics A	<a href="#">MATH1012</a>	40
Core Mathematics B1	<a href="#">MATH1051</a>	20
Core Mathematics B2	<a href="#">MATH1041</a>	20
Data Analysis, Modelling and Simulation	<a href="#">MATH1711</a>	20
Discrete Mathematics	<a href="#">MATH1031</a>	20
Maths for Engineers and Scientists	<a href="#">MATH1551</a>	20
Single Mathematics A	<a href="#">MATH1561</a>	20
Single Mathematics B	<a href="#">MATH1571</a>	20
Statistics	<a href="#">MATH1541</a>	20
<b>Level 2</b>		
Algebra II	<a href="#">MATH2581</a>	20
Analysis in Many Variables II	<a href="#">MATH2031</a>	20
Codes and Actuarial Mathematics II	<a href="#">MATH2131</a>	20
Codes and Geometric Topology II	<a href="#">MATH2141</a>	20
Complex Analysis II	<a href="#">MATH2011</a>	20
Contours and Actuarial Mathematics II	<a href="#">MATH2171</a>	20
Elementary Number Theory and Cryptography	<a href="#">MATH2591</a>	20
Mathematical Physics II	<a href="#">MATH2071</a>	20
Numerical Analysis	<a href="#">MATH2051</a>	20
Probability and Actuarial Mathematics II	<a href="#">MATH2161</a>	20
Probability and Geometric Topology II	<a href="#">MATH2151</a>	20
Statistical Concepts II	<a href="#">MATH2041</a>	20
<b>Level 3</b>		

### Modules running 2012-2013

Approximation Theory and Solutions of ODEs III	<a href="#">MATH3081</a>	20
Bayesian Statistics III	<a href="#">MATH3341</a>	20
Elliptic Functions III	<a href="#">MATH3221</a>	20
Geometry III	<a href="#">MATH3201</a>	20
Number Theory III	<a href="#">MATH3031</a>	20
Probability III	<a href="#">MATH3211</a>	20
Solitons III	<a href="#">MATH3231</a>	20
Statistical Mechanics III	<a href="#">MATH3351</a>	20

### Modules running 2011-2012

Algebraic Geometry III	<a href="#">MATH3321</a>	20
Analysis III	<a href="#">MATH3011</a>	20
Bayesian Methods III	<a href="#">MATH3311</a>	20
Continuum Mechanics III	<a href="#">MATH3101</a>	20
General Relativity III	<a href="#">MATH3331</a>	20
Representation Theory III	<a href="#">MATH3371</a>	20
Stochastic Processes III	<a href="#">MATH3251</a>	20

### Modules running every year

Communicating Mathematics III	<a href="#">MATH3131</a>	20
Decision Theory III	<a href="#">MATH3071</a>	20
Differential Geometry III	<a href="#">MATH3021</a>	20
Electromagnetism III	<a href="#">MATH3181</a>	20
Galois Theory III	<a href="#">MATH3041</a>	20
Mathematical Biology III	<a href="#">MATH3171</a>	20
Mathematical Finance III	<a href="#">MATH3301</a>	20
Mathematics Teaching III	<a href="#">MATH3121</a>	20
Operations Research III	<a href="#">MATH3141</a>	20
Partial Differential Equations III	<a href="#">MATH3291</a>	20
Quantum Mechanics III	<a href="#">MATH3111</a>	20
Statistical Methods III	<a href="#">MATH3051</a>	20
Topology III	<a href="#">MATH3281</a>	20

34. Students studying for BSc Joint Honours degrees involving Mathematics are required to take the following modules:

<b>Level 1</b>	Core Mathematics A	<a href="#">MATH1012</a>
	Core Mathematics B1	<a href="#">MATH1051</a>
<b>Level 2</b>	For a Joint Honours degree not involving Physics, any modules selected from the Level 2 Mathematics modules listed above	
	<b>For a Joint Honours Degree with Physics, three 20 credit modules must be taken and must include:</b>	
	Analysis in Many Variables II	<a href="#">MATH2031</a>
	Complex Analysis II	<a href="#">MATH2011</a>
<b>Level 3</b>	Modules selected from the Level 3 modules listed above. If modules to the value of 60 credits or more are taken, one 20 credit module can be at Level 2.	

35. Students studying for BSc Joint Honours degrees involving Statistics are required to take the following modules:

<b>Level 1</b>	Core Mathematics A	<a href="#">MATH1012</a>
	Statistics	<a href="#">MATH1541</a>
<b>Level 2</b>	Linear Algebra II	<a href="#">MATH2021</a>
	Statistical Concepts II	<a href="#">MATH2041</a>
<b>Level 3</b>	Statistical Methods III	<a href="#">MATH3051</a>
	<b>AND</b> at least 40 credits from the following:	
	Decision Theory III	<a href="#">MATH3071</a>
	Operations Research III	<a href="#">MATH3141</a>
	Communicating Mathematics III	<a href="#">MATH3131</a>

### Philosophy Modules Available to Natural Sciences Students

36. Candidates may study and be assessed in the following modules:

<b>Level 1</b>		<b>Credit value</b>
Ethics and Values	<a href="#">PHIL1011</a>	20
Introduction to the History and Theory of Medicine	<a href="#">PHIL1051</a>	20
Introduction to the History and Philosophy of Science	<a href="#">PHIL1081</a>	20
Introduction to Logic	<a href="#">PHIL1031</a>	20
Knowledge and Reality	<a href="#">PHIL1021</a>	20
Philosophy and Science	<a href="#">PHIL1061</a>	20
Reading Philosophy	<a href="#">PHIL1041</a>	20

<b>Level 2</b>		
Ancient Philosophies West and East	<a href="#">PHIL2161</a>	20
Biomedical Ethics Past and Present	<a href="#">PHIL2051</a>	20
Modern Philosophy I	<a href="#">PHIL2031</a>	20
Moral Theory	<a href="#">PHIL2041</a>	20
Philosophical Logic	<a href="#">PHIL2021</a>	20
Philosophy of Mind	<a href="#">PHIL2011</a>	20
Philosophy of Religion	<a href="#">PHIL2091</a>	20
Philosophy of the Sciences	<a href="#">PHIL2151</a>	20
Political Philosophy	<a href="#">PHIL2081</a>	20
Science and Religion	<a href="#">PHIL2071</a>	20
Theory, Literature and Society	<a href="#">PHIL2131</a>	20

<b>Level 3</b>		
20 <sup>th</sup> Century European Philosophy	<a href="#">PHIL3051</a>	20
Aesthetics	<a href="#">PHIL3031</a>	20
Applied Ethics	<a href="#">PHIL3071</a>	20
Issues in Contemporary Ethics	<a href="#">PHIL3131</a>	20
Language and Mind	<a href="#">PHIL3061</a>	20
Metaphysics	<a href="#">PHIL3171</a>	20
Modern Philosophy II	<a href="#">PHIL3011</a>	20
Philosophical Issues in Contemporary Science	<a href="#">PHIL3021</a>	20
Philosophy Long Dissertation	<a href="#">PHIL3112</a>	40
Philosophy Short Dissertation	<a href="#">PHIL3101</a>	20
History and Philosophy of Psychiatry	<a href="#">PHIL3181</a>	20
History of the Body	<a href="#">HEAS3001</a>	20

37. Students studying for BSc Joint Honours degrees involving Philosophy are required to take the following modules:

- Level 1** Two 20 credits modules selected from the Level 1 Philosophy modules listed above
- Level 2** Modules selected from the Level 2 Philosophy modules listed above
- Level 3** Modules selected from the Level 3 Philosophy modules listed above. If modules to the value of 60 credits or more are taken, one 20 credit module can be at Level 2.

### Physics Modules Available to Natural Sciences Students

38. Candidates may study and be assessed in the following modules:

<b>Level 1</b>		<b>Credit value</b>
Discovery Skills in Physics	<a href="#">PHYS1101</a>	20
Foundations of Physics I	<a href="#">PHYS1122</a>	40
Introduction to Astronomy	<a href="#">PHYS1081</a>	20
Maths Toolkit for Scientists	<a href="#">PHYS1141</a>	20
<b>Level 2</b>		
Foundations of Physics 2A	<a href="#">PHYS2581</a>	20
Foundations of Physics 2B	<a href="#">PHYS2591</a>	20
Mathematical Methods in Physics	<a href="#">PHYS2611</a>	20
Stars and Galaxies	<a href="#">PHYS2621</a>	20
Theoretical Physics 2	<a href="#">PHYS2631</a>	20
Laboratory Skills and Electronics	<a href="#">PHYS2641</a>	20
<b>Level 3</b>		
Astrophysics	<a href="#">PHYS3541</a>	20
Condensed Matter Physics	<a href="#">PHYS3531</a>	20

Foundations of Physics 3	<a href="#">PHYS3522</a>	40
Key Skills A	<a href="#">PHYS3561</a>	20
Key Skills B	<a href="#">PHYS3571</a>	20
Laboratory Project	<a href="#">PHYS3601</a>	20
Mathematics Workshop	<a href="#">PHYS3591</a>	20
Team Project	<a href="#">PHYS3581</a>	20
Theoretical Physics	<a href="#">PHYS3551</a>	20
Physics into Schools	<a href="#">PHYS3611</a>	20

39. Students studying for BSc Joint Honours degrees involving Physics are required to take the following modules:

<b>Level 1</b>	Foundations of Physics 1	<a href="#">PHYS1122</a>
	Core Mathematics A <b>OR</b>	<a href="#">MATH1012</a>
	(Single Mathematics A <b>AND</b>	<a href="#">MATH1561</a>
	Single Mathematics B)	<a href="#">MATH1571</a>
<b>Level 2</b>	<b>For a Joint Honours degree not involving Mathematics, the following modules must be taken:</b>	
	Foundations of Physics 2A	<a href="#">PHYS2581</a>
	Mathematical Methods in Physics	<a href="#">PHYS2611</a>
	Discovery Skills in Physics (if not taken previously)	<a href="#">PHYS1101</a>
	Laboratory Skills and Electronics (may be taken at Level 2 or Level 3)	<a href="#">PHYS2641</a>
	<b>For a Joint Honours degree with Mathematics, the following modules must be taken:</b>	
	Foundations of Physics 2A	<a href="#">PHYS2581</a>
	Discovery Skills in Physics (if not taken previously)	<a href="#">PHYS1101</a>
	<b>AND</b> at least 20 credits from the following:	
	Foundations of Physics 2B (must be taken at Level 2 or Level 3)	<a href="#">PHYS2591</a>
	Stars and Galaxies	<a href="#">PHYS2621</a>
	Laboratory Skills and Electronics (must be taken at Level 2 or Level 3)	<a href="#">PHYS2641</a>
<b>Level 3</b>	Foundations of Physics 3	<a href="#">PHYS3522</a>
	Modules selected from the Level 3 Physics modules listed above	

### Psychology Modules Available to Natural Sciences Students

40. Candidates may study and be assessed in the following modules:

		<b>Credit value</b>
<b>Level 1</b>		
Introduction to Psychological Research	<a href="#">PSYC1062</a>	40
Introduction to Psychology I	<a href="#">PSYC1071</a>	20
Introduction to Psychology II	<a href="#">PSYC1081</a>	20
<b>Level 2</b>		
Individual Differences and Abnormal Psychology	<a href="#">PSYC2071</a>	20
Brain Processes of Cognition and Perception	<a href="#">PSYC2111</a>	20
Memory and Cognition	<a href="#">PSYC2081</a>	20
Social and Developmental Psychology	<a href="#">PSYC2021</a>	20
<b>Level 3</b>		
Learning and Animal Cognition	<a href="#">PSYC3201</a>	20
Cognitive Psychology	<a href="#">PSYC3151</a>	20
Developmental Psychology	<a href="#">PSYC3031</a>	20
Emotion and Social Cognition	<a href="#">PSYC3171</a>	20
Neuropsychology	<a href="#">PSYC3011</a>	20
Psychology Project and Statistics ~	<a href="#">PSYC3041</a>	20
Social Psychology	<a href="#">PSYC3081</a>	20
The Visual Brain	<a href="#">PSYC3181</a>	20
The Evolution of Human Behaviour	<a href="#">PSYC3141</a>	20
Child Health Psychology	<a href="#">PSYC3061</a>	20
Advanced Applied Psychology	<a href="#">PSYS3211</a>	20
Applied Developmental Psychology	<a href="#">PSYS3171</a>	20
Clinical Cognitive Neuroscience	<a href="#">PSYS3191</a>	20
Forensic Psychology	<a href="#">PSYS3241</a>	20
The Science of Consciousness	<a href="#">PSYS3161</a>	20

41. Students studying for BSc Joint Honours degrees involving Psychology are required to take the following modules:

<b>Level 1</b>	Introduction to Psychological Research	<a href="#">PSYC1062</a>
	Introduction to Psychology I	<a href="#">PSYC1071</a>
<b>Level 2</b>	Memory and Cognition	<a href="#">PSYC2081</a>
	Brain Processes of Cognition and Perception	<a href="#">PSYC2111</a>
	Social and Developmental Psychology	<a href="#">PSYC2021</a>
<b>Level 3</b>	Psychology Project and Statistics ~	<a href="#">PSCY3041</a>
	Individual Differences and Abnormal Psychology (if not taken previously)	<a href="#">PSYC2071</a>
	Modules to the value of 20-40 credits from the Level 3 Psychology modules listed above	

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

42. Modules marked with a ~ must be passed at 40% or above or above for the award of an honours degree. A mark of 30-39% cannot be compensated.

### **Professional accreditation**

43. The specified Joint-Honours approved pathway through Geological Sciences within Natural Sciences has been accredited by the Geological Society for six years with effect from March 2010.

44. The specified Joint-Honours approved pathways through Psychology within Natural Sciences have been accredited] from the 2008-09 intake to the 2012-13 intake as conferring eligibility for the Graduate Basis for Chartered Membership of the British Psychological Society. Students entering in and after October 2006 need to achieve a minimum of a second class honours degree to gain eligibility.