

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. The BSc in Natural Sciences allows candidates to take modules from two or more subjects in a three year programme. The range of subjects is limited.
3. All module selections must be approved by the Deputy Head of Faculty (Natural Sciences) by his or her nominee and be compatible in the timetable.
4. The degree certificate issued to successful candidates who have taken a BSc Natural Sciences degree shall list in alphabetical order all subjects in which they have taken at least 40 credits during Levels 2 and 3 of the degree programme.
5. Candidates may take no more than 40 credits delivered by Modern Language and Cultures (Languages) across Levels 1, 2 and 3.

#### **Level 1 (Certificate)**

6. Candidates take modules from at least two and no more than four subjects, to a maximum of 80 credits per subject.
7. Candidates may take no more than 20 credits each year of language modules delivered by Modern Language and Cultures (Languages).
8. Candidates must take at least 60 credits from the Faculty of Science.

#### **Level 2 (Diploma)**

9. Students take modules from at least two and no more than three subjects, to a maximum of 80 credits per subject.
10. In accordance with the core regulations, candidates are normally permitted to study Level 1 modules up to the value of 30 credits; however, an exemption to the core regulations has been granted by the PVC Education, permitting Natural Sciences candidates to undertake Level 1 modules up to the value of 40 credits..
11. Candidates may take no more than 20 credits modules delivered by Modern Language and Cultures (Languages).
12. Candidates studying for a BSc Natural Sciences degree must take modules to the value of at least 120 credits from the Faculty of Science across Levels 2 and 3. The subjects within the Faculty of Science are: Biology, Chemistry, Computer Science, Earth Sciences, Mathematics, Physics and Psychology.

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

13. Candidates take modules from at least two and no more than three subjects, to a maximum of 100 credits per subject.
14. In accordance with the core regulations, candidates are normally permitted to study Level 2 modules up to the value of 30 credits;
15. Candidates are required to take Capstone modules to the value of at least 20 credits and no more than 60 credits from at most two Departments/Schools which must be approved by the Deputy Head of Faculty (Natural Sciences) or by his or her nominee.
16. Candidates may take no more than 20 credits each year of language modules delivered by Modern Language and Cultures (Languages).
17. Candidates 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. The subjects within the Faculty of Science are: Biology, Chemistry, Computer Science, Earth Sciences, Mathematics, Physics and Psychology.

## Joint Honours

18. Within the Natural Sciences programme certain combinations of modules are known as “Joint Honours degrees”. Candidates who follow these combinations of modules will be awarded a specific title for their degree.
19. Candidates 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.
20. Candidates studying for a Joint Honours degree are bound by the regulations above except 12. and 17. that relate to the number of credits of Science being taken in any given Level. In order to qualify for the degree BSc Honours in A and B within the Natural Sciences programme, candidates 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.
21. The table below shows the Joint-Honours combinations that are currently available where a • indicates that combining these two subjects is possible:

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

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

The abbreviations represent the subjects in the above list:

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		

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

			<b>Credit value</b>
<b>Level 1</b>	Human Evolution and Diversity	<a href="#">ANTH1091</a>	20
	People and Cultures	<a href="#">ANTH1061</a>	20
<b>Level 2</b>	<b>All candidates are required to take at least:</b>		
	Evolutionary, Variation and Adaptation	<a href="#">ANTH2061</a>	20
	<b>AND/ OR</b> Human Ecology, Genomics and Health	<a href="#">ANTH2011</a>	20
<b>Level 3</b>	All candidates can take up to eighty credits from the Level 3 Anthropology modules. If 60 or more credits of Anthropology are taken, 20 credits may be at Level 2.		

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

			<b>Credit value</b>
<b>Level 1</b>	Scientific Methods in Archaeology 1	<a href="#">ARCH1041</a>	20
	<b>Plus at least 20 credits from the following:</b>		
	Discovering World Prehistory	<a href="#">ARCH1121</a>	20
	Ancient Civilisations of the East	<a href="#">ARCH1111</a>	20
	If modules to the value of 60 credits or more in Archaeology are taken, the third 20 credit module must be <a href="#">ARCH1071</a> Introduction to Archaeology.		
<b>Level 2</b>	Scientific Methods in Archaeology 2	<a href="#">ARCH2041</a>	20
	<b>AND</b> modules up to the value of 60 credits from the Level 2 Archaeology modules available. 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		
<b>Level 3</b>	Scientific Methods in Archaeology 3	<a href="#">ARCH3051</a>	20
	<b>AND</b> modules up to the value of 60 credits from the Level 3 Archaeology modules available. 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="#">ARCH3371</a>	20

24. There are three Joint Honours routes through modules offered by the School of Biological and Biomedical Sciences: the Ecological route, Biology and Psychology route and the Cell Biology route.

25. Candidates studying for BSc Joint Honours degrees in the Ecological route are required to take the following modules:

			<b>Credit value</b>
<b>Level 1</b>	Genetics	<a href="#">BIOL1171</a>	20
	Organisms and Environment	<a href="#">BIOL1161</a>	20
<b>Level 2</b>	Evolution	<a href="#">BIOL2451</a>	20
	Ecology	<a href="#">BIOL2461</a>	20
	<b>Candidates taking 60 credits of Level 2 modules must also take:</b>		
	Behaviour	<a href="#">BIOL2511</a>	20
<b>Level 3</b>	<b>If 40 credits are taken they must be selected from:</b>		
	Behavioural and Evolutionary Biology	<a href="#">BIOL3561</a>	20
	Conservation Biology	<a href="#">BIOL3551</a>	20
	Global Change Biology	<a href="#">BIOL3541</a>	20
	<b>If 60 or more credits are taken they must be selected from:</b>		
	Behavioural and Evolutionary Biology	<a href="#">BIOL3561</a>	20
	Biology into Schools	<a href="#">BIOL3431</a>	20
	Conservation Biology	<a href="#">BIOL3551</a>	20
	Global Change Biology	<a href="#">BIOL3541</a>	20
	Literature Review	<a href="#">BIOL3451</a>	20
	<b>If 60 credits are taken</b> then <a href="#">BIOL3451</a> Literature Review and <a href="#">BIOL3431</a> Biology into Schools cannot be taken together		

26. Candidates studying for BSc Joint Honours degrees in the Biology and Psychology route are required to take the following modules:

			<b>Credit value</b>
<b>Level 1</b>	Physiology	<a href="#">BIOL1151</a>	20
	Genetics	<a href="#">BIOL1171</a>	20
<b>Level 2</b>	Cell Structure and Function	<a href="#">BIOL2481</a>	20
	Human Physiology	<a href="#">BIOL2521</a>	20
	<b>Candidates taking 60 credits of Level 2 modules must also take:</b>		
	Immunology	<a href="#">BIOL2421</a>	20
<b>Level 3</b>	Cell Architecture	<a href="#">BIOL3481</a>	20

Modules to the value of no less than 20 credits taken from:

Ageing and Age-related Diseases	<a href="#">BIOL3591</a>	20
Literature Review	<a href="#">BIOL3451</a>	20
Stem Cells and Tissue Engineering	<a href="#">BIOL3531</a>	20

27. Candidates studying for BSc Joint Honours degrees in the Cell Biology route are required to take the following modules:

		<b>Credit value</b>
<b>Level 1</b>	Genetics	<a href="#">BIOL1171</a> 20
	Molecules and Cells	<a href="#">BIOL1281</a> 20
<b>Level 2</b>	<b>Candidates following a BSc Joint Honours degree with Chemistry:</b>	
	Molecular Biology	<a href="#">BIOL2441</a> 20
	Biochemistry	<a href="#">BIOL2491</a> 20
	Cell Signalling	<a href="#">BIOL2501</a> 20
	<b>Candidates following a BSc Joint Honours degree with Physics:</b>	
	Molecular Biology	<a href="#">BIOL2441</a> 20
	Development	<a href="#">BIOL2471</a> 20
	Cell Structure and Function	<a href="#">BIOL2481</a> 20
<b>Level 3</b>	<b>Candidates following a BSc Joint Honours degree with Chemistry:</b>	
	Biochemistry and Biotechnology	<a href="#">BIOL3601</a> 20
	Stress and Responses to the Environment	<a href="#">BIOL3491</a> 20
	<b>And either</b> Crops for the Future	<a href="#">BIOL3611</a> 20
	<b>Or</b> Literature Review	<a href="#">BIOL3451</a> 20
	<b>Candidates following a BSc Joint Honours degree with Physics:</b>	
	Cell Architecture	<a href="#">BIOL3481</a> 20
	Genes and Development	<a href="#">BIOL3521</a> 20
	<b>And either</b> Stem Cells and Tissue Engineering	<a href="#">BIOL3531</a> 20
	<b>Or</b> Literature Review	<a href="#">BIOL3451</a> 20

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

		<b>Credit value</b>
<b>Level 1</b>	People, Management and Organisations	<a href="#">BUSI1141</a> 20
	Elements of Economics	<a href="#">ECON1011</a> 20
<b>Level 2</b>	Modules taken from the Level 2 Business	
<b>Level 3</b>	Modules taken from the Level 3 Business	

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

		<b>Credit value</b>
<b>Level 1</b>	Core Chemistry 1A	<a href="#">CHEM1078</a> 30
	Practical Chemistry 1A	<a href="#">CHEM1087</a> 10
<b>Level 2</b>	Core Chemistry 2	<a href="#">CHEM2012</a> 40
	<b>Candidates taking 60 credits or more at Level 2 must take at least 20 credits of the following modules:</b>	
	[Chemistry of the Elements <b>AND</b>	<a href="#">CHEM2077</a> 10
	Practical Chemistry 2 – Inorganic]	<a href="#">CHEM2107</a> 10
	[Structure and Reactivity in Organic Chemistry <b>AND</b>	<a href="#">CHEM2087</a> 10
	Practical Chemistry 2 – Organic]	<a href="#">CHEM2117</a> 10
	[Properties of Molecules <b>AND</b>	<a href="#">CHEM2097</a> 10
	Practical Chemistry 2 – Physical]	<a href="#">CHEM2127</a> 10
<b>Level 3</b>	Core Chemistry 3	<a href="#">CHEM3012</a> 40

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

			<b>Credit value</b>
<b>Level 1</b>	Introduction to Programming	<a href="#">COMP1011</a>	20
	Computer Systems	<a href="#">COMP1071</a>	20
<b>Level 2</b>	Software Engineering	<a href="#">COMP2191</a>	20
	And at least 20 credits and no more than 60 credits from Level 2 Computer Science.		
<b>Level 3</b>	Modules selected from Level 2 and Level 3 Computer Science.		

31. Candidates studying for BSc Joint Honours degrees involving Earth Sciences are required to take the following modules:

			<b>Credit value</b>
<b>Level 1</b>	Principles of Earth Sciences	<a href="#">GEOL1091</a>	20
	At least one 20 credit module from:		
	Understanding Earth Sciences	<a href="#">GEOL1101</a>	20
	Environment and Resources	<a href="#">GEOL1111</a>	20
	<b>To obtain accreditation the following modules must be taken at either Level 1 or Level 2:</b>		
	Field Studies	<a href="#">GEOL1051</a>	20
<b>Level 2</b>	Modules selected from the Level 1 and Level 2 Earth Sciences modules available.		
	<b>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>		
	Fieldwork (Geological)	<a href="#">GEOL2191</a>	20
	Environment and Resources (if not already taken)	<a href="#">GEOL1111</a>	20
<b>Level 3</b>	Modules selected from the Level 3 modules available. If modules to the value of 60 credits or more are taken, one 20 credit module can be at Level 2.		
	<b>To obtain accreditation modules to the value of 80 credits or more must be taken and must include:</b>		
	Dissertation	<a href="#">GEOL3022</a>	40

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

			<b>Credit value</b>
<b>Level 1</b>	Elements of Economics	<a href="#">ECON1011</a>	20
	Economic Methods	<a href="#">ECON1021</a>	20
	<b>If any Level 1 Maths modules are taken the following module should be taken in place of ECON1021:</b>		
	The World Economy	<a href="#">ECON1071</a>	20
<b>Level 2</b>	Economic Principles I: Macroeconomics	<a href="#">ECON2011</a>	20
	Economic Principles II: Microeconomics	<a href="#">ECON2021</a>	20
<b>Level 3</b>	Modules selected from the Level 3 Economics modules available. If modules to the value of 60 credits are take, one 20 credit module can be at Level 2		

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

			<b>Credit value</b>
<b>Level 1</b>	Introduction to Geographical Research (BSc) <b>OR</b>	<a href="#">GEOG1232</a>	40
	Introduction to Geographical Research (BA)	<a href="#">GEOG1222</a>	40
<b>Level 2</b>	Scientific Research in Geography <b>OR</b>	<a href="#">GEOG2462</a>	40
	Social Research in Geography	<a href="#">GEOG2472</a>	40
	<b>Candidates who take GEOG2462 must select between 20 and 40 credits from the following:</b>		
	Environmental Processes and Governance	<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
Reconstructing Environmental Change	<a href="#">GEOG2601</a>	20
Geochemistry of the Environment	<a href="#">GEOG2651</a>	20

**Candidates who take GEOG2472 must select between 20 and 40 credits from the following:**

Geographies of Development	<a href="#">GEOG2541</a>	20
Environmental Processes and Management	<a href="#">GEOG2551</a>	20
GIS and Remote Sensing	<a href="#">GEOG2591</a>	20
Political Geography	<a href="#">GEOG2581</a>	20
Social and Cultural Geography	<a href="#">GEOG2561</a>	20
Urban Geography	<a href="#">GEOG2511</a>	20
Theory and Concepts in Contemporary Human Geography	<a href="#">GEOG2621</a>	20
Economic Geography	<a href="#">GEOG2641</a>	20

**Level 3 Candidates who took GEOG2462 in Year 2 must select no less than 40 credits from the following:**

Dissertation	<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
Natural Hazards in a Vulnerable World	<a href="#">GEOG3621</a>	20
River Dynamics	<a href="#">GEOG3461</a>	20
Sea-Level Change and Coastal Erosion	<a href="#">GEOG3191</a>	20
The Quaternary of Glaciated Regions	<a href="#">GEOG3511</a>	20
Field Research in Glacial Environments: Iceland Case Study	<a href="#">GEOG3691</a>	20
Mountain Hazards	<a href="#">GEOG3701</a>	20
Dynamic Mountain Environments	<a href="#">GEOG3731</a>	20
Oceans Past and Present	<a href="#">GEOG3641</a>	20
Antarctic Environments	<a href="#">GEOG3817</a>	10
Geochemical Applications: Across Continents and Oceans	<a href="#">GEOG3827</a>	10
Landslides	<a href="#">GEOG3807</a>	10
Martian Landscapes	<a href="#">GEOG3897</a>	10
Peatland Geomorphology	<a href="#">GEOG3947</a>	10
Quaternary of the Low Latitudes	<a href="#">GEOG3927</a>	10

**Candidates who took GEOG2472 in Year 2 must select no less than 40 credits from the following:**

Dissertation	<a href="#">GEOG3232</a>	40
Environmental Remote Sensing	<a href="#">GEOG3261</a>	20
Natural Hazards in a Vulnerable World	<a href="#">GEOG3621</a>	20
Politics/ Space: Drawing Lines, Writing the World	<a href="#">GEOG3661</a>	20
Specialised Aspects of Human Geography	<a href="#">GEOG3431</a>	20
Territory and Geopolitics	<a href="#">GEOG3581</a>	20
Urban Change in Europe	<a href="#">GEOG3501</a>	20
People, Participation and Place	<a href="#">GEOG3671</a>	20
Theory and Geography	<a href="#">GEOG3481</a>	20
Cities and the Governing of Climate Change	<a href="#">GEOG3887</a>	10
Geographies of Everyday Life	<a href="#">GEOG3367</a>	10
Geographies of Memory: Power, Place, Identities	<a href="#">GEOG3857</a>	10
Geographies of Money and Finance	<a href="#">GEOG3957</a>	10
Spaces of Health and Well-Being	<a href="#">GEOG3867</a>	10
Urban Governance	<a href="#">GEOG3967</a>	10
Visual Geographies: Representing Africa	<a href="#">GEOG3907</a>	10
Work, Labour and Development	<a href="#">GEOG3787</a>	10

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

			<b>Credit value</b>
<b>Level 1</b>	Linear Algebra I	<a href="#">MATH1071</a>	20
	Calculus and Probability I	<a href="#">MATH1061</a>	20
	Analysis I	<a href="#">MATH1051</a>	20
<b>Level 2</b>	For a Joint Honours degree not involving Physics, any modules selected from the Level 2 Mathematics modules available		
	<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>	20
	Complex Analysis II	<a href="#">MATH2011</a>	20
<b>Level 3</b>	Modules selected from the Level 3 modules available. If modules to the value of 60 credits or more are taken, one 20 credit module can be at Level 2.		

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

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

			<b>Credit value</b>
<b>Level 1</b>	Foundations of Physics 1	<a href="#">PHYS1122</a>	40
	(Linear Algebra I <b>AND</b>	<a href="#">MATH1071</a>	20
	Calculus and Probability I) <b>OR</b>	<a href="#">MATH1061</a>	20
	(Single Mathematics A <b>AND</b>	<a href="#">MATH1561</a>	20
	Single Mathematics B)	<a href="#">MATH1571</a>	20
<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>	20
	Mathematical Methods in Physics	<a href="#">PHYS2611</a>	20
	Discovery Skills in Physics (if not taken previously)	<a href="#">PHYS1101</a>	20
	<b>For a Joint Honours degree with Mathematics, the following modules must be taken:</b>		
	Foundations of Physics 2A	<a href="#">PHYS2581</a>	20
	Theoretical Physics 2	<a href="#">PHYS2631</a>	20
	<b>AND</b> (Discovery Skills in Physics (if not taken previously) <b>OR</b>	<a href="#">PHYS1101</a>	20
	Foundations of Physics 2B (must be taken at Level 2 or Level 3))	<a href="#">PHYS2591</a>	20
<b>Level 3</b>	<b>For a Joint Honours degree not involving Mathematics, the following modules must be taken:</b>		
	Foundations of Physics 3A	<a href="#">PHYS3621</a>	20
	Foundations of Physics 2B	<a href="#">PHYS2591</a>	20
	Laboratory Skills and Electronics 3	<a href="#">PHYS3681</a>	20
	<b>For a Joint Honours degree with Mathematics, the following modules must be taken:</b>		
	Foundations of Physics 3A	<a href="#">PHYS3621</a>	20
	Theoretical Physics 3	<a href="#">PHYS3661</a>	20
	<b>AND</b> (Foundations of Physics 3C (if Foundations of Physics 2B was not taken previously) <b>OR</b>	<a href="#">PHYS3671</a>	20
	Modules selected from the Level 2 or 3 Physics modules available		

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

			<b>Credit value</b>
<b>Level 1</b>	Introduction to Psychological Research <b>AND</b>	<a href="#">PSYC1062</a>	40
	(Introduction to Psychology I: Cognitive and Biological Psychology <b>OR</b>	<a href="#">PSYC1071</a>	20
	Introduction to Psychology II: Developmental, Social and Abnormal Psychology)	<a href="#">PSYC1081</a>	20
<b>Level 2</b>	Topics in Cognitive Psychology	<a href="#">PSYC2081</a>	20
	Biological Psychology and Perception	<a href="#">PSYC2111</a>	20
	Social and Developmental Psychology	<a href="#">PSYC2021</a>	20
<b>Level 3</b>	Psychology Project and Statistics ~	<a href="#">PSYC3041</a>	20
	Individual Differences and Abnormal Psychology (if not taken previously) Modules to the value of 20-40 credits from the Level 3 Psychology modules available	<a href="#">PSYC2071</a>	20

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

38. 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**

39. 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.
40. The specified Joint-Honours approved pathways through Psychology within Natural Sciences have been accredited from the 2012-13 intake on an ongoing basis as conferring eligibility for the Graduate Basis for Chartered Membership of the British Psychological Society. Candidates entering in and after October 2006 need to achieve a minimum of a second class honours degree to gain eligibility.