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), BSc Natural Sciences with Year Abroad (CFG1), BSc Natural Sciences with Placement (CFG2)

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 for candidates entering in October 2016 to those shown in the table under paragraph 24, Sport, languages offered by the University's Centre for Foreign Language Study and Education which excludes any History of Art module and Harry Potter and the Age of Illusion (EDUC2381).
3. All module selections must be approved by the Deputy Head of Faculty (Natural Sciences) or by their 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 entering on or after October 2015 may take no more than 20 credits delivered by the University's Centre for Foreign Language Study in Levels 1 and 2. For candidates entering on or before October 2014 may take no more than 40 credits delivered by the University's Centre for Foreign Language Study across Levels 1, 2 and 3.

Level 1 (Certificate)

6. Candidates are limited to the range of subjects shown in the table under paragraph 24, Sport, languages offered by the University's Centre for Foreign Language Study and Education which excludes any History of Art module.
7. Candidates take modules: from at least two subjects; from not more than four subjects; to a maximum of 80 credits per subject.Candidates must take at least 60 credits from the Faculty of Science.
8. Candidates may take no more than 20 credits of language modules offered by the University's Centre for Foreign Language Study.

Level 2 (Diploma)

9. Candidates take modules: from at least two subjects; from not more than three subjects; with at least 40 credits each in at least two 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.
11. Candidates may take no more than 20 credits of language modules offered by the University's Centre for Foreign Language Study.
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.
13. Candidates who wish to take modules from outside the Joint-Honours combinations, shown in the table under paragraph 24, must take a minimum of 40 credits.
14. Candidates who take 60 credits of Level 2 Earth Sciences are required to take additional tutorials as determined by the Department of Earth Sciences.

Level 3 (Degree)

15. Candidates take modules: from at least two subjects; from not more than three subjects; to a maximum of 100 credits per subject.
16. In accordance with the core regulations, candidates are normally permitted to study Level 2 modules up to the value of 30 credits;

17. 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 that must be approved by the Deputy Head of Faculty (Natural Sciences) or by their nominee.

18. Candidates entering on or before October 2014 may take no more than 20 credits of language modules offered by the University's Centre for Foreign Language Study which follows on from previously completed modules at an earlier level of study. Candidates entering on or after October 2015 will be unable to take any Centre for Foreign Language Study module at Level 3.

19. 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.

20. Candidates entering on or after October 2015 who wish to take modules from outside the Joint-Honours combinations, shown in the table under paragraph 24, must take a minimum of 40 credits.

Joint Honours

21. 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.

22. 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.

23. Candidates studying for a Joint Honours degree are bound by the paragraphs above except 12. and 19. 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.

24. The table below shows the Joint-Honours combinations that are currently available where a • indicates that combining these two subjects is possible:

	An	Bi	Bs	Ch	CS	ES	Ec	Gg	Ma	Ph	Py	Ps
An		•										•
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
Bi	Biology	Gg	Geography
Bs	Business	Ma	Mathematics
Ch	Chemistry	Ph	Philosophy
CS	Computer Science	Py	Physics
ES	Earth Sciences	Ps	Psychology

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

			Credit value
Level 1	Human Evolution and Diversity	ANTH1091	20
	People and Cultures	ANTH1061	20

Level 2	Methods and Analysis	ANTH2031	20
	Plus at least 20 credits from the following:		
	Evolutionary, Variation and Adaptation	ANTH2061	20
	Ecology, Genomics and Health	ANTH2011	20
Level 3	If 60 or more credits are taken, 20 credits may be at Level 2.		

26. There are five Joint Honours routes through modules offered by the School of Biological and Biomedical Sciences: Ecological; Biology and Mathematics; Biology and Psychology; Biology and Chemistry; Biology and Physics route;

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

			Credit value
Level 1	Genetics	BIOL1171	20
	Organisms and Environment	BIOL1161	20
Level 2	Evolution	BIOL2451	20
	Ecology	BIOL2461	20
	Behaviour	BIOL2511	20
Level 3	**40 credits taken from the list:**		
	Conservation Biology	BIOL3551	20
	Global Change Biology	BIOL3541	20
	Behaviourial and Evoluntionary Ecology	BIOL3561	20

* The Ecological route is designed to go with Anthropology, Earth Sciences and Geography.

28. Candidates studying for the BSc Joint Honours degree in Biology and Mathematics are required to take the following modules:

			Credit value
Level 1	Genetics	BIOL1171	20
	Organisms and Environment	BIOL1161	20
Level 2	Evolution	BIOL2451	20
	Ecology	BIOL2461	20
	Molecular Biology	BIOL2441	20
Level 3	Conservation Biology	BIOL3551	20
	Global Change Biology	BIOL3541	20

29. Candidates studying for the BSc Joint Honours degree in the Biology and Psychology are required to take the following modules:

			Credit value
Level 1	Physiology	BIOL1151	20
	Genetics	BIOL1171	20
Level 2	Molecular Biology	BIOL2441	20
	Development	BIOL2471	20
	Human Physiology	BIOL2521	20
Level 3	Genes and Development	BIOL3521	20
	Ageing and Age-related Diseases	BIOL3591	20

30. Candidates studying for the BSc Joint Honours degree in Biology and Chemistry are required to take the following modules:

			Credit value
Level 1	Genetics	BIOL1171	20
	Molecules and Cells	BIOL1281	20
Level 2	Molecular Biology	BIOL2441	20
	Biochemistry	BIOL2491	20
	Cell Signalling	BIOL2501	20
Level 3	Biochemistry and Biotechnology	BIOL3601	20
	Stress and Responses to the Environment	BIOL3491	20
	And either Crops for the Future	BIOL3611	20
	Or Literature Review	BIOL3451	20
	Or Cell Architecture	BIOL3481	20

31. Candidates studying for the BSc Joint Honours degree in Biology and Physics are required to take the following modules:

			Credit value
Level 1	Genetics	BIOL1171	20
	Molecules and Cells	BIOL1281	20
Level 2	Molecular Biology	BIOL2441	20
	Development	BIOL2471	20
	Cell Structure and Function	BIOL2481	20
Level 3	Cell Architecture	BIOL3481	20
	Genes and Development	BIOL3521	20
	And either Stem Cells and Tissue Engineering	BIOL3531	20
	Or Literature Review	BIOL3451	20
	Or Stress and Responses to the Environment	BIOL3491	20
	Or Biochemistry and Biotechnology	BIOL3601	20

32. Candidates studying for the BSc Joint Honours degree in Business and Computer Science are required to take the following modules:

			Credit value
Level 1	People, Management and Organisations	BUSI1141	20
	Elements of Economics	ECON1011	20
Level 2	Modules taken from the Level 2 Business		
Level 3	Modules taken from the Level 3 Business		

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

			Credit value
Level 1	Core Chemistry 1A	CHEM1078	30
	Practical Chemistry 1A	CHEM1087	10
	Plus EITHER		
	(Linear Algebra I **AND**	MATH1071	20
	Calculus and Probability I)	MATH1061	20
	OR		
	(Single Mathematics A **AND**	MATH1561	20
	Single Mathematics B)	MATH1571	20
	OR		
	Mathematical And Experimental Tools Required In Chemistry	CHEM1111	20
Level 2	Core Chemistry 2	CHEM2012	40
	Candidates taking 60 credits or more at Level 2 must take at least 20 credits of the following modules:		
	[Chemistry of the Elements* **AND**	CHEM2077	10
	Practical Chemistry 2 – Inorganic*]	CHEM2107	10
	[Structure and Reactivity in Organic Chemistry # **AND**	CHEM2087	10
	Practical Chemistry 2 – Organic #]	CHEM2117	10
	[Properties of Molecules ¥ **AND**	CHEM2097	10
	Practical Chemistry 2 – Physical ¥]	CHEM2127	10
Level 3	Core Chemistry 3	CHEM3012	40

Modules marked with: * should be taken with Earth Sciences; # should be taken with Biology; ¥ should be taken with Mathematics/Physics.

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

			Credit value
Level 1	Computer Systems	COMP1071	20
	Plus at least 20 credits from:		
	Introduction to Programming	COMP1011	20
	Computational Thinking	COMP1051	20
Level 2	Software Engineering	COMP2191	20
	Programming Paradigms	COMP2221	20
Level 3	Modules selected from Level 2 and Level 3 Computer Science.		

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

			Credit value
Level 1	Understanding Earth Sciences	GEOL1101	20
	Plus at least 20 credits from:		
	Earth Materials	GEOL1021	20
	Environment and Resources	GEOL1111	20
	To obtain accreditation the following modules must be taken at either Level 1 or Level 2:		
	Field Studies	GEOL1051	20
Level 2	Modules selected from the Level 1 and Level 2 Earth Sciences modules available.		
	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):		
	Fieldwork (Geological)	GEOL2191	20
	Environment and Resources (if not already taken)	GEOL1111	20
Level 3	Modules selected from the Level 3 modules available. If modules to the value of 60 credits or more are taken, 20 credits can be at Level 2.		
	To obtain accreditation modules to the value of 80 credits or more must be taken and must include:		
	Dissertation	GEOL3022	40

36. Candidates studying for the BSc Joint Honours in Economics and Mathematics are required to take the following modules:

			Credit value
Level 1	Elements of Economics	ECON1011	20
	The World Economy	ECON1071	20
Level 2	Economic Principles I: Macroeconomics	ECON2011	20
	Economic Principles II: Microeconomics	ECON2021	20
Level 3	Modules selected from the Level 3 Economics modules available. If modules to the value of 60 credits are take, 20 credits can be at Level 2		

37. Candidates studying for BSc Joint Honours in Economics and Psychology are required to take the following modules:

			Credit value
Level 1	Elements of Economics	ECON1011	20
	Economic Methods	ECON1021	20
Level 2	Economic Principles I: Macroeconomics	ECON2011	20
	Economic Principles II: Microeconomics	ECON2021	20
Level 3	Modules selected from the Level 3 Economics modules available. If modules to the value of 60 credits are taken, 20 credits can be at Level 2		

38. Candidates studying for the BSc Joint Honours degree in Geography and Psychology are required to take the following modules:

			Credit value
Level 1	Introduction to Geographical Research (BA)	GEOG1222	40
Level 2	Social Research in Geography	GEOG2472	40
	Plus at least 20 credits from the following:		
	Climate Change: Gegraphical Perspectives	GEOG2661	20
	Geographies of Development	GEOG2541	20
	Environmental Processes and Governance	GEOG2551	20
	Political Geography	GEOG2581	20
	Social and Cultural Geography	GEOG2561	20
	Urban Geography	GEOG2511	20
	Theory and Concepts in Contemporary Human Geography	GEOG2621	20
	Economic Geography	GEOG2641	20

Level 3	Dissertation	GEOG3232	40
	Geographies of Difference and Identity	GEOG3931	20
	Geographies of Energy Transition: Cape Town	GEOG3971	20
	Natural Hazards in a Vulnerable World	GEOG3621	20
	People, Participation and Place	GEOG3671	20
	Philosophy and Geography	GEOG3481	20
	Politics/ Space: Drawing Lines, Writing the World	GEOG3661	20
	Territory and Geopolitics	GEOG3581	20
	The Arctic ¥	GEOG3521	20
	Urban Change in Europe	GEOG3501	20
	Cities and the Governing of Climate Change	GEOG3887	10
	Everyday Economies	GEOG3777	10
	Geographies of Contemporary Unfree Labour	GEOG3787	10
	Geographies of Everyday Life	GEOG3367	10
	Geographies of Memory: Power, Place, Identities	GEOG3857	10
	Geographies of Money and Finance	GEOG3957	10
	Postcolonialism and Development	GEOG3877	10
	Spaces of Health and Well-Being	GEOG3867	10
	Urban Governance	GEOG3967	10
	WaterWorlds and Well-Being	GEOG3177	10

Modules marked with a ¥ cannot be taken in conjunction with each other.

39. Candidates studying for BSc Joint Honours degrees involving Geography (with the exception of the BSc Joint Honours degree in Geography and Psychology) are required to take the following modules:

			Credit value
Level 1	Introduction to Geographical Research (BSc)	GEOG1232	40
Level 2	Scientific Research in Geography	GEOG2462	40
	Plus least 20 credits from the following:		
	Environmental Processes and Governance	GEOG2551	20
	Fluvial Systems	GEOG2521	20
	Glaciers and Glaciation	GEOG2531	20
	Global Environmental Change	GEOG2571	20
	Mountain Landscapes	GEOG2611	20
	Climate Change: Geographical Perspectives	GEOG2661	20
	Geochemistry of the Environment	GEOG2651	20
	Handling Spatial Data	GEOG2591	20
Level 3	Dissertation	GEOG3432	40
	Alpine Landscapes and Processes ¥	GEOG3491	20
	Remote Sensing: Science & Environmental Management	GEOG3261	20
	Field Research in Glacial Environments: Iceland Case Study ¥	GEOG3691	20
	Mountain Hazards	GEOG3701	20
	Oceans Past and Present	GEOG3641	20
	River Dynamics	GEOG3461	20
	Sea-Level Change and Coastal Erosion	GEOG3191	20
	The Arctic ¥	GEOG3521	20
	The Quaternary of Glaciated Regions	GEOG3511	20
	Antarctic Environments	GEOG3817	10
	Geochemical Applications: Across Continents and Oceans	GEOG3827	10
	Landslides	GEOG3807	10
	Martian Landscapes	GEOG3897	10
	Peatland Geomorphology	GEOG3947	10
	WaterWorlds and Well-Being	GEOG3177	10

Modules marked with a ¥ cannot be taken in conjunction with each other

40. Candidates studying for the BSc Joint Honours degree in Mathematics and Physics are required to take the following modules:

			Credit value
Level 1	Linear Algebra I	MATH1071	20
	Calculus and Probability I	MATH1061	20
	Analysis I	MATH1051	20

Level 2	Analysis in Many Variables II	MATH2031	20
	Complex Analysis II	MATH2011	20
	AND (Theoretical Physics 2	PHYS2631	20
	OR Mathematical Physics II)	MATH2071	20
	AND 20 credits of Level 2 Mathematics modules which may include Mathematical Physics II		
Level 3	Modules selected from the Level 3 modules available. If modules to the value of 60 credits or more are taken, 20 credits can be at Level 2.		

41. Candidates studying for BSc Joint Honours degrees involving Mathematics (with the exception of the BSc Joint Honours degree in Mathematics and Physics) are required to take the following modules:

			Credit value
Level 1	Linear Algebra I	MATH1071	20
	Calculus and Probability I	MATH1061	20
	Analysis I	MATH1051	20
Level 2	At least 60 credits of Level 2 Mathematics.		
Level 3	Modules selected from the Level 3 modules available. If modules to the value of 60 credits or more are taken, 20 credits can be at Level 2.		

42. Candidates studying for the BSc Joint Honours in Mathematics and Philosophy are required to take the following modules:

			Credit value
Level 1	Knowledge and Reality	PHIL1021	20
	Introduction to the History and Philosophy of Science	PHIL1081	20
Level 2	Modern Philosophy I	PHIL2031	20
	Philosophy of Sciences	PHIL2151	20
Level 3	Modules selected from the Level 3 Philosophy modules available. If modules to the value of 60 credits or more are taken, 20 credits can be at Level 2.		

43. Candidates studying for the BSc Joint Honours in Philosophy and Physics are required to take the following modules:

			Credit value
Level 1	Knowledge and Reality	PHIL1021	20
	Introduction to the History and Philosophy of Science	PHIL1081	20
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, 20 credits can be at Level 2.		

44. Candidates studying for the BSc Joint Honours in Mathematics and Physics are required to take the following modules:

			Credit value
Level 1	Foundations of Physics 1	PHYS1122	40
	Discovery Skills in Physics	PHYS1101	20
Level 2	Foundations of Physics 2A	PHYS2581	20
	AND (Discovery Skills in Physics (if not taken previously)	PHYS1101	20
	OR Foundations of Physics 2B (must be taken at Level 2 or Level 3))	PHYS2591	20
	AND (Theoretical Physics 2	PHYS2631	20
	OR Mathematical Physics II)	MATH2071	20
	AND 20 credits of Level 2 Physics modules which may include Theoretical Physics 2		
Level 3	Foundations of Physics 3A	PHYS3621	20
	Theoretical Physics 3	PHYS3661	20

45. Candidates studying for the BSc Joint Honours degrees involving Physics (with the exception of the BSc Joint Honours degree in Mathematics and Physics) are required to take the following modules:

			Credit value
Level 1	Foundations of Physics 1	PHYS1122	40
	(Linear Algebra I **AND**	MATH1071	20
	Calculus and Probability I) **OR**	MATH1061	20
	(Single Mathematics A **AND**	MATH1561	20
	Single Mathematics B)	MATH1571	20
Level 2	Foundations of Physics 2A	PHYS2581	20
	Mathematical Methods in Physics	PHYS2611	20
	Discovery Skills in Physics	PHYS1101	20
Level 3	Foundations of Physics 3A	PHYS3621	20
	Foundations of Physics 2B	PHYS2591	20
	Laboratory Skills and Electronics 3	PHYS3681	20

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

			Credit value
Level 1	Introduction to Psychological Research **AND**	PSYC1062	40
	(Introduction to Psychology I: Cognitive and Biological Psychology **OR**	PSYC1071	20
	Introduction to Psychology II: Developmental, Social and Abnormal Psychology)	PSYC1081	20
Level 2	Topics in Cognitive Psychology	PSYC2081	20
	Biological Psychology and Perception	PSYC2111	20
	Social and Developmental Psychology	PSYC2021	20
Level 3	Psychology Project and Statistics ~	PSYC3041	20
	Individual Differences and Abnormal Psychology (if not taken previously)	PSYC2071	20
	At least 20 credits from the Level 3 Psychology modules available		

Assessment, progression and award

47. 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

48. 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.

49. 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.

Year Abroad

50. Students admitted to the BSc Natural Sciences (CFG0) are able to apply to transfer to the BSc Natural Sciences (with Year Abroad) programme (CFG1). Students undertaking the BSc Natural Sciences (with Year Abroad) programme (CFG1) will undertake an approved exchange in an overseas university taking a course of study chosen in consultation with the Deputy Head of Faculty (Natural Sciences) or their nominee and the host institution.

51. Candidates wishing to transfer to the BSc Natural Sciences (with Year Abroad) (CFG1) must:

    a. have successfully completed Level 1 of the BSc Natural Sciences (CFG1) and progressed to Level 2 of the honours or Ordinary programme, and;

    b. during the first term of Level 2 study, apply to the Deputy Head of Faculty (Natural Sciences) or their nominee to be admitted to the BSc Natural Sciences (with Year Abroad) (CFG1) and have their application approved by the Deputy Head of Faculty (Natural Sciences) or by their nominee; and

    c. secure an exchange opportunity with an approved international partner institution of the University; and

    d. successfully complete Level 2 of the BSc Natural Sciences (CFG0) so as to be eligible to progress to Level 3 of the BSc Natural Sciences (CFG0) Honours programme.

52. Students who the Board of Examiners for Natural Sciences deem to have made satisfactory progress on the year abroad will continue to Level 3 of the BSc Natural Sciences (with Year Abroad) (CFG1). Students who have not made satisfactory progress on the year abroad will not be permitted to continue on the BSc Natural Sciences (with Year Abroad) (CFG1) programme, but must instead proceed to Level 3 of the BSc Natural Sciences (CFG0) programme.

Placement

53. Students admitted to the BSc Natural Sciences (CFG0) are able to apply to transfer to the BSc Natural Sciences with Placement (CFG2). Students undertaking the BSc Natural Sciences with Placement programme (CFG2) will undertake an approved placement chosen in consultation with the Deputy Head of Faculty (Natural Sciences) or their nominee and the host partner.

54. Candidates wishing to transfer to the BSc Natural Sciences with Placement (CFG2) must:

    a. Have successfully completed Level 1 of the BSc Natural Sciences (CFG0) and progressed to Level 2 of the Honours or Ordinary programme; and

    b. During the first term of Level 2 study the student must discuss their intention to apply with the Deputy Head of Faculty (Natural Sciences) or their nominee in order to be admitted to the BSc Natural Sciences with Placement (CFG2) and receive approval by the Deputy Head of Faculty (Natural Sciences) or their nominee; and

    c. Secure a year-long placement opportunity (40 weeks or more) approved by the Deputy Head of Faculty (Natural Sciences) or their nominee with an approved partner of the University; and

    d. Successfully complete Level 2 of the BSc Natural Sciences (CFG0) programme so as to be eligible to progress to Level 3 of the BSc Natural Sciences (CFG0) Honours programme.

55. Students who the Board of Examiners for Natural Sciences deem to have made satisfactory progress on the placement will continue to Level 3 of the BSc Natural Sciences with Placement (CFG2). Students who have not made satisfactory progress on the placement will not be permitted to continue on the BSc Natural Sciences with Placement (CFG2) programme, but must instead proceed to Level 3 of the BSc Natural Sciences (CFG0) programme.