

For entrants prior to 2007
BSc NATURAL SCIENCES (CFG0)

Programme offered at: Durham.

Mode of study: this programme is available full-time.

1. All module selections must be approved by the Deputy Dean (Natural Sciences) and be compatible in the timetable.
2. At Level 1 students take modules from at least two and no more than four subjects, to a maximum of 80 credits per subject. The selection may include up to 40 credits from outside the list of modules that make up the Natural Sciences programme.
3. At Level 2 students take modules from at least two and no more than four subjects, to a maximum of 80 credits per subject. A student can take up to 120 credits from outside the list of modules that make up the Natural Sciences programme over Levels 1, 2 and 3.
4. At Level 3 students take modules from at least two and no more than three subjects to a maximum of 100 credits per subject. A student can take up to 120 credits from outside the list of modules that make up the Natural Sciences programme over Levels 1, 2 and 3.
5. Within the Natural Sciences programme certain combinations of modules are known as Named Routes. Students who follow these combinations of modules will be awarded a specific title for their degree.
6. Students who follow an approved two subject Named Route combination, known as a Joint Honours degree, will be awarded either a BSc in A and B or a BSc in A with B, where A and B are replaced by the approved subject titles. Normally each subject will have a single subject title.
7. In order to qualify for the degree BSc in A and B, students in Levels 2 and 3 must select modules from the same two subjects and the number of credits in each subject must be equal over the last two Levels. The availability of subject combinations will be determined by the timetable. In the following tables the following abbreviations apply:

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

The following combinations are currently available:

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

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).

8. In order to qualify for the degree BSc in A with B, students in Levels 2 and 3 must select modules from the same two subjects and the number of credits in subject A must be greater than the number of credits in subject B over the last two Levels. The availability of subject combinations will be determined by the timetable. The following are currently available:

	An	Ar	As	Bi	Ch	CS	ES	Ec	Gg	Ma	Ph	Py	Ps
An	*	*	*	*					*		*	*	*
Ar	*			*	*	*			*		*		
As													
Bi	*	*			*		*		*	*	*		*
Ch	*	*	*	*		*	*	*	*	*	*	*	
CS		*	*		*				*	*	*	*	*
ES		*	*	*					*	*	*	*	
Ec		*		*					*	*	*	*	*
Gg	*	*		*	*	*	*	*		*	*		
Ma		*	*	*	*	*	*	*			*	*	*
Ph	*	*	*	*	*	*	*	*	*	*		*	*
Py	*				*	*	*	*		*	*		
Ps	*			*		*		*	*	*	*		

Table 2: Joint Honours Combinations available in the A WITH B degree

The table above indicates which subjects can be combined to form a Joint Honours ‘with’ degree (an * in row A and column B indicates that it is possible to obtain an ‘A with B’ degree in those two subjects).

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. If a chosen combination can be studied as part of the Combined Honours in Social Sciences programme, a student would normally be expected to transfer to that programme.

For 2007 entrants only
BSc NATURAL SCIENCES (CFG0)

Programme offered at: Durham.

Mode of study: this programme is available full-time.

1. All module selections must be approved by the Deputy Dean (Natural Sciences) and be compatible in the timetable.
2. At Level 1 students take modules from at least two and no more than four subjects, to a maximum of 80 credits per subject. The selection may include up to 40 credits from outside the list of modules that make up the Natural Sciences programme.
3. At Level 2 students take modules from at least two and no more than four subjects, to a maximum of 80 credits per subject. A student can take up to 120 credits from outside the list of modules that make up the Natural Sciences programme over Levels 1, 2 and 3.
4. At Level 3 students take modules from at least two and no more than three subjects to a maximum of 100 credits per subject. A student can take up to 120 credits from outside the list of modules that make up the Natural Sciences programme over Levels 1, 2 and 3.

5. Within the Natural Sciences programme certain combinations of modules are known as Named Routes. Students who follow these combinations of modules will be awarded a specific title for their degree.
6. Students who follow an approved two subject Named Route combination, known as a Joint Honours degree, will be awarded a BSc Honours in A and B, where A and B are replaced by the approved subject titles. Normally each subject will have a single subject title.
7. In order to qualify for the degree BSc Honours in A and B, 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															
Ar	Archaeology															
As	Astronomy															
Bi	Biology															
Bs	Business															
Ch	Chemistry															
CS	Computer Science															
ES	Earth Sciences															

The following combinations are currently available:

	An	Ar	As	Bi	Bs	Ch	CS	ES	Ec	Gg	Ma	Ph	Py	Ps	St
An		*		*						*		*	*	*	
Ar	*			*		*		*		*		*			
As						*	*	*			*	*			
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).

8. 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.
9. If a chosen combination can be studied as part of the Combined Honours in Social Sciences programme, a student would normally be expected to transfer to that programme.

MODULES AVAILABLE WITHIN THE BSc NATURAL SCIENCES PROGRAMME AND REQUIREMENTS FOR THE B.Sc. JOINT HONOURS DEGREES WITHIN NATURAL SCIENCES

The modules that form the Natural Sciences programme are listed below. Students can choose modules not contained within the programme, provided that no more than 120 credits over the three Levels of the degree are from outside the Natural Sciences programme. All choices of modules require the approval of the Deputy Dean (Natural Sciences). All selected modules must be timetable compatible.

ANTHROPOLOGY MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1 Modules	Human Origins and Diversity People and Cultures	ANTH1071 20 ANTH1061 20
Level 2 Modules	Evolutionary Anthropology Human Ecology, Genetics and Health	ANTH2061 20 ANTH2011 20
	Biology, Culture and Society Methods and Explanations	ANTH2021 20 ANTH2031 20
	Political and Economic Organisation Kinship and Belief Systems	ANTH2051 20 ANTH2041 20
Level 3 Modules	Business Anthropology Change and Development	ANTH3041 20 ANTH3111 20
	Current Issues in Sociocultural Anthropology Dissertation in Anthropology	ANTH3011 20 ANTH3141 20
	Hunters and Gatherers Past and Present (AN)	ANTH3071 20
	Material Culture Nutritional and Disease Ecology	ANTH3081 20 ANTH3151 20
	Palaeoanthropology Social Evolution	ANTH3061 20 ANTH3121 20
	Anthropology of Community in Britain Genetics and Behaviour	HUSS3351 20 HUSS3301 20
	Mental Health, Illness and Drug Use Populations and Development *	HUSS3241 20 HUSS3311 20
	Power and Governance	HUSS3501 20

* Not available in 2007-2008.

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING ANTHROPOLOGY

Level 1	ANTH1071 Human Origins and Diversity ANTH1061 People and Cultures
Level 2	All students are required to take at least ANTH2061 Evolutionary Anthropology and/or ANTH2011 Human Ecology, Genetics and Health.
Level 3	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

Level 1 Modules	Ancient Civilisations of the East Discovering World Prehistory	ARCH1111 20 ARCH1121 20
	From Roman Empire to Nation State	ARCH1101 20
	Introduction to Archaeology	ARCH1071 20
	Scientific Methods in Archaeology 1	ARCH1041 20
Level 2 Modules	Ancient and Complex Societies in Action	ARCH2141 20
	Scientific Methods in Archaeology 2	ARCH2041 20
	Archaeology of Medieval and Post-Medieval Britain in its European Context	ARCH2131 20
	Experimental Methods of Archaeological Science (EMAS)	ARCH2111 20
	Field Archaeology of Britain and Ireland	ARCH2101 20
	Mediterranean Expansion: Rome and Native Societies	ARCH2091 20
	Prehistoric Europe: from Foragers to State Formation	ARCH2081 20
Level 3 Modules	Archaeological Artefacts and Materials †	ARCH3471 20
	Archaeological Surveying †	ARCH3491 20
	Archaeology Dissertation (20 Credits)	ARCH3371 20
	Computer Techniques in Archaeology † *	ARCH3071 20

Hunters and Gatherers Past and Present (AR)	ARCH3521	20
Scientific Methods in Archaeology 3	ARCH3051	20
Specialised Aspects in Archaeology (20 Credits)	ARCH3451	20
Specialised Aspects in Archaeology (40 Credits)	ARCH3472	40

Only one of the modules marked with a † can be chosen. These modules are capped and students wishing to take one should contact the Department of Archaeology before the start of the examination period in Level 2 for details of application procedures.

* Not available in 2007-2008.

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING ARCHAEOLOGY

Level 1	ARCH1041 Scientific Methods in Archaeology 1 plus at least one of ARCH1121 Discovering World Prehistory, ARCH1101 From Roman Empire to Nation State and ARCH1111 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.
Level 2	ARCH2041 Scientific Methods in Archaeology 2 plus modules to the value of 20, 40 or 60 credits from the list of Level 2 Archaeology modules listed above. One 20 credit Level 1 Archaeology module may be taken if Archaeology modules to the value of 60 or 80 credits are taken, unless Level 1 Archaeology modules to the value of 80 credits have been taken.
Level 3	ARCH3051 Scientific Methods in Archaeology 3 and 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 in Archaeology are taken, then ARCH3371 Archaeology Dissertation (20 Credits) must be taken, unless a Dissertation module is being taken in the other subject.

BIOLOGY MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1 Modules	Core Skills for Biology	BIOL1091	20
	Introduction to Molecular and Cell Biology	BIOL1072	40
	Introduction to Whole Organisms and the Environment	BIOL1082	40
Level 2 Modules	Animal Biology	BIOL2231	20
	Biochemistry	BIOL2191	20
	Biotechnology	BIOL2171	20
	Cell Structure and Function	BIOL2211	20
	Development 1	BIOL2221	20
	Evolutionary Biology	BIOL2241	20
	Experimental and Molecular Biology	BIOL2181	20
	Field and Experimental Biology	BIOL2251	20
	Molecular Biology	BIOL2201	20
	Patterns and Processes	BIOL2261	20
	Plant Biology	BIOL2271	20
	Pure and Applied Population Ecology	BIOL2281	20
Level 3 Modules	Advanced Biochemistry (Lit)	BIOL3371	20
	Behavioural and Evolutionary Ecology (Lit)	BIOL3351	20
	Cell Signals and Protein Targeting (Lit)	BIOL3341	20
	Conservation Biology (Lit)	BIOL3331	20
	Contemporary Issues in Ecology (P)	BIOL3391	20
	Development 2 (P)	BIOL3281	20
	Health and Environment (P)	BIOL3411	20
	Molecular and Cellular Physiology (Lit)	BIOL3231	20
	Molecular Basis of Disease (Lit)	BIOL3341	20
	Molecular Basis of Disease (P)	BIOL3221	20
	Palaeoecology (Lit)	BIOL3171	20
	Palaeoecology (P)	BIOL3381	20

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING BIOLOGY

There are two routes through Biological Sciences: the Whole Organisms route and the Cell Biology route.

WHOLE ORGANISMS ROUTE:

Level 1	BIOL1082 Introduction to Whole Organisms and the Environment
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Level 2 At least two Level 2 modules must be taken. Students taking just two modules will take the following:

[BIOL2241](#) Evolutionary Biology
[BIOL2231](#) Animal Biology

Students taking three Level 2 modules will take [BIOL2281](#) Pure and Applied Population Ecology in addition to the above two modules.

Students taking four Level 2 modules will take [BIOL2271](#) Plant Biology in addition to the above three modules.

Level 3 Modules selected from the Level 3 Biology modules listed above.

CELL BIOLOGY ROUTE:

Level 1 [BIOL1072](#) Introduction to Molecular and Cell Biology

Level 2 At least two Level 2 modules must be taken. Students taking just two modules will take the following:

[BIOL2201](#) Molecular Biology
[BIOL2211](#) Cell Structure and Function

Students taking three Level 2 modules will take [BIOL2221](#) Development I in addition to the above two modules.

Students taking four Level 2 modules will take [BIOL2191](#) Biochemistry in addition to the above three modules.

Level 3 Modules selected from the Level 3 Biology modules listed above.

BUSINESS MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1	Introduction to Entrepreneurship	BUSI1111	20
Modules	Introduction to Management	BUSI1011	20
	Business Accounting and Finance	ECON1041	20
	Economic Methods	ECON1021	20
	Elements of Economics	ECON1011	20
	Enterprise and Business Development	BUSI1121	20
Level 2	Marketing Management	BUSI2111	20
Modules	The Small Business and its Development *	BUSI2031	20
	Organisational Behaviour	BUSI2121	20
Level 3	Asia and the Pacific Rim	BUSI3041	20
Modules	Dissertation in Business (20 Credits)	BUSI3091	20
	Evolutionary Psychology and Consumer Behaviour	BUSI3131	20
	Marketing Research	BUSI3141	20
	Public Administration and Management	BUSI3031	20

* Not available in 2007-2008.

REQUIREMENTS FOR JOINT HONOURS DEGREES INVOLVING BUSINESS

Level 1	BUSI1011 Introduction to Management and ECON1011 Elements of Economics should be taken.
Level 2	Modules taken from the Level 2 Business module list above.
Level 3	Modules taken from the Level 3 Business module list above.

CHEMISTRY MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1	Core Chemistry 1A	CHEM1012	40
Modules	Core Chemistry 1B	CHEM1022	40
	Molecules in Action	CHEM1061	20
Level 2	Biological Chemistry	CHEM2051	20
Modules	Chemistry of the Elements	CHEM2021	20
	Computational Chemistry	CHEM2061	20
	Core Chemistry 2	CHEM2012	40

Level 3 Modules	Properties of Molecules	CHEM2041	20
	Ring Chemistry	CHEM2031	20
	Advanced Organic Chemistry	CHEM3031	20
	Chemistry and Society	CHEM3061	20
	Core Chemistry 3	CHEM3012	40
	Inorganic Concepts and Applications	CHEM3021	20
	Materials Chemistry	CHEM3051	20
	Molecules and their Interactions	CHEM3041	20

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING CHEMISTRY

- Level 1** [CHEM1012](#) Core Chemistry 1A
Level 2 [CHEM2012](#) Core Chemistry 2

Students taking at least 60 credits of Chemistry must take at least one of [CHEM2021](#) Chemistry of the Elements, [CHEM2031](#) Ring Chemistry or [CHEM2041](#) Properties of Molecules.

- Level 3** [CHEM3012](#) Core Chemistry 3. Any other modules can be selected from the Level 2 or Level 3 Chemistry modules listed above.

COMPUTER SCIENCE MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1 Modules	Computer Systems	COMP1071	20
	Formal Aspects of Computer Science	COMP1021	20
	Introduction to Programming	COMP1011	20
	Programming and Data Structures	COMP1082	40
Level 2 Modules	Computer Systems II	COMP2161	20
	Programming and Reasoning	COMP2171	20
	Software Applications	COMP2071	20
	Software Engineering	COMP2092	40
	Theory of Computation	COMP2181	20
Level 3 Modules	Advanced Artificial Intelligence (20 Credits)	COMP3311	20
	Advanced Artificial Intelligence (40 Credits)	COMP3352	40
	Advanced Software Applications and Methodologies (20 Credits)	COMP3331	20
	Advanced Software Applications and Methodologies (40 Credits)	COMP3332	40
	Advanced Software Engineering (20 Credits)	COMP3221	20
	Advanced Software Engineering (40 Credits)	COMP3152	40
	Advanced Theory of Computation (20 Credits)	COMP3341	20
	Advanced Theory of Computation (40 Credits)	COMP3342	40
	Computer Science Project	COMP3012	40
	Software Engineering Project	COMP3282	40

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING COMPUTER SCIENCE

- Level 1** ([COMP1011](#) Introduction to Programming or [COMP1082](#) Programming and Data Structures)
[COMP1021](#) Formal Aspects of Computer Science
- Level 2** Modules selected from the Level 2 Computer Science modules listed above.
- Level 3** Modules selected from the Level 2 and Level 3 Computer Science modules listed above.

EARTH SCIENCES MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1 Modules	Earth and Environment	GEOL1041	20
	Earth History and Life	GEOL1031	20
	Earth Materials	GEOL1021	20
	Field Studies	GEOL1051	20
	How the Earth Works	GEOL1011	20
	Mathematical Methods in Geosciences	GEOL1061	20
	The Oceans	GEOL1071	20
Level 2 Modules	Earth Visualisation L2	GEOL2221	20
	Fieldwork I	GEOL2191	20
	Fieldwork II	GEOL2201	20

Level 3 Modules	Fossils and Dynamic Stratigraphy of the British Isles	GEOL2051	20
	Geophysics Methods in Geology	GEOL2081	20
	Igneous and Metamorphic Geochemistry and Petrology	GEOL2231	20
	Sedimentary Environments	GEOL2031	20
	Structural Geology and Tectonics	GEOL2011	20
	Water and Climate	GEOL2171	20
	Dissertation	GEOL3022	40
	Dynamic Earth I	GEOL3011	20
	Dynamic Earth II	GEOL3181	20
	Earth Science into Schools	GEOL3251	20
	Earth Structure and Dynamics	GEOL3151	20
	Earth System and Climate	GEOL3231	20
	Environmental Geochemistry	GEOL3041	20
	Evolutionary Palaeobiology	GEOL3071	20
	Magmatism	GEOL3051	20
	Modelling Earth Processes	GEOL3261	20
	Petroleum Geophysics	GEOL3221	20
	Rheology and Deformation Processes	GEOL3091	20
	Sedimentary and Petroleum Systems	GEOL3031	20

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING EARTH SCIENCES

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

GEOLOGICAL SCIENCES ROUTE:

- Level 1** [GEOL1011](#) How the Earth Works
[GEOL1021](#) Earth Materials

To obtain accreditation the above two modules must be taken. In addition [GEOL1051](#) Field Studies and [GEOL1041](#) Earth and the Environment must be taken at either Level 1 or Level 2.

- Level 2** Modules selected from the Level 1 and Level 2 Earth Sciences modules listed above.

To obtain accreditation modules to the value of 60 credits or more must be taken and these must include [GEOL2191](#) Fieldwork 1, [GEOL1041](#) Earth and the Environment and [GEOL1051](#) Field Studies if these modules have not already been studied.

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

To obtain accreditation [GEOL3022](#) Dissertation must be taken and modules to the value of at least 40 credits must be taken from the Level 3 Earth Sciences list above.

Accreditation note: the above specified pathway within Natural Sciences has been accredited by the Geological Society for a period of six years with effect from June 2004, subject to students choosing modules that constitute an approved pathway as indicated above.

GEOPHYSICS ROUTE:

- Level 1** [GEOL1011](#) How the Earth Works
[GEOL1021](#) Earth Materials
(MATH1561 Single Mathematics A and [MATH1571](#) Single Mathematics B) or
[MATH1551](#) Mathematics for Scientists and Engineers or [MATH1012](#) Core Maths A or
[GEOL1061](#) Mathematical Methods in Geosciences
- Level 2** Modules selected from the Level 2 Earth Sciences modules listed above.
- Level 3** Modules selected from:
[GEOL3022](#) Dissertation
[GEOL3221](#) Petroleum Geophysics
[GEOL3151](#) Earth Structure and Dynamics

ECONOMICS MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1 Modules	Business Accounting and Finance	ECON1041	20
	Economic Methods	ECON1021	20
	Elements of Economics	ECON1011	20
	Introduction to Environmental Economics	ECON1051	20
	The British Economy	ECON1031	20
Level 2 Modules	Business Competition	ECON2081	20
	Corporate Finance	ECON2101	20
	Economic Data Analysis	ECON2061	20
	Economic Principles I: Macroeconomics	ECON2011	20
	Economic Principles II: Microeconomics	ECON2021	20
	Economics of Social Policy	ECON2091	20
	European Economics	ECON2071	20
	Intermediate Methods for Economics and Finance	ECON2121	20
Level 3 Modules	Advanced Macroeconomic Theory	ECON3211	20
	Advanced Microeconomic Theory	ECON3201	20
	Applied Econometrics	ECON3011	20
	Development Economics	ECON3171	20
	Dissertation in Economics	ECON3012	40
	Financial Theory and Corporate Policy *	ECON3251	20
	History of Economic Thought	ECON3051	20
	Industrial Organisation	ECON3061	20
	International Economics	ECON3071	20
	Labour Economics	ECON3081	20
	Monetary Economics	ECON3111	20
	Public Economics	ECON3191	20
	Security Investment Analysis	ECON3241	20

* Not available in 2007-2008.

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING ECONOMICS

Level 1	ECON1011 Elements of Economics and ECON1021 Economic Methods, unless any Level 1 Maths modules are taken in which case ECON1031 The British Economy is taken in place of ECON1021 Economic Methods.
Level 2	ECON2011 Economic Principles I: Macroeconomics ECON2021 Economic Principles II: Microeconomics
	Any further modules selected from the Level 2 Economics modules listed above.
Level 3	Modules selected from the Level 3 Economics modules listed above. If modules to the value of 60 credits or more are taken, one 20 credit module can be at Level 2.

GEOGRAPHY MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1 Modules	Cities: From the Greeks to Globalisation	GEOG1211	20
	Environment and Society	GEOG1061	20
	Human Geography: Space and Place in a Changing World	GEOG1071	20
	Introduction to Geographical Methods	GEOG1222	20
	Physical Geography: Earth Systems Science	GEOG1081	20
Level 2 Modules	Development, Society and the Environment	GEOG2541	20
	Environmental Processes and Management	GEOG2251	20
	Fluvial Systems	GEOG2521	20
	GIS and Remote Sensing	GEOG2221	20
	Glaciation	GEOG2531	20
	Global Climate Change	GEOG2571	20
	Mountain Landscapes	GEOG2611	20
	Political Geography	GEOG2581	20
	Reconstructing Quaternary Environmental Change	GEOG2601	20
	Scientific Research in Geography	GEOG2462	40
	Social and Cultural Geography	GEOG2561	20
Level 3 Modules	Dissertation (40 Credits) in Geography B	GEOG3432	40
	Dynamics of Gravel-Bed Rivers	GEOG3461	20
	Environmental Processes of Change: Field Case Studies	GEOG3491	20

Environmental Remote Sensing	GEOG3261	20
Geography, Gender and Change	GEOG3161	20
Oceans Past and Present	GEOG3641	20
Hazard and Risk	GEOG3621	20
Philosophy and Geography	GEOG3481	20
Sea-Level Change and Coastal Evolution	GEOG3191	20
Specialised Aspects of Physical Geography	GEOG3431	20
The Quaternary of Glaciated Regions	GEOG3511	20
Urban Transformations in the New Europe	GEOG3501	20

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING GEOGRAPHY

- Level 1** Two 20 credit modules from the following:
[GEOG1081](#) Physical Geography
[GEOG1071](#) Human Geography
[GEOG1222](#) Introduction to Geographical Methods
[GEOG1061](#) Environment & Society
[GEOG1211](#) Cities: From the Greeks to Globalisation
- Level 2** Modules selected from the Level 2 Geography modules listed above.
- Level 3** Modules selected from the Level 2 and Level 3 Geography modules listed above.

MATHEMATICS MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1 Modules	Core Mathematics A	MATH1012	40
	Core Mathematics B1	MATH1051	20
	Core Mathematics B2	MATH1041	20
	Data Analysis, Modelling and Simulation	MATH1711	20
	Discrete Mathematics	MATH1031	20
	Maths for Engineers and Scientists	MATH1551	20
	Single Mathematics A	MATH1561	20
	Single Mathematics B	MATH1571	20
	Statistics	MATH1541	20
	Algebra and Number Theory II	MATH2061	20

Level 2 Modules	Analysis in Many Variables II	MATH2031	20
	Codes and Actuarial Mathematics II	MATH2131	20
	Codes and Geometric Topology II	MATH2141	20
	Complex Analysis II	MATH2011	20
	Contours and Actuarial Mathematics II	MATH2171	20
	Linear Algebra II	MATH2021	20
	Numerical Analysis II	MATH2051	20
	Probability and Actuarial Mathematics II	MATH2161	20
	Probability and Geometric Topology II	MATH2151	20
	Statistical Concepts II	MATH2041	20

Level 3 Modules	<u>Modules running 2007-2008</u>		
	Analysis III	MATH3011	20
	Bayesian Methods III	MATH3311	20
	Continuum Mechanics III	MATH3101	20
	General Relativity III	MATH3331	20
	Mathematical Finance III	MATH3301	20
	Representation Theory and Modules III	MATH3191	20
	Stochastic Processes III	MATH3251	20

<u>Modules running 2008-2009</u>	Approximation Theory and Solutions of ODEs III	MATH3081	20
	Bayesian Statistics III	MATH3341	20
	Elliptic Functions III	MATH3221	20
	Geometry III	MATH3201	20
	Number Theory III	MATH3031	20
	Probability III	MATH3211	20
	Solitons III	MATH3231	20

Statistical Mechanics III	MATH3351	20
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<u>Modules available every year</u>		
Decision Theory III	MATH3071	20
Differential Geometry III	MATH3021	20
Dynamical Systems III	MATH3091	20
Electromagnetism III	MATH3181	20
Galois Theory III	MATH3041	20
Mathematical Biology III	MATH3171	20
Mathematics Teaching III	MATH3121	20
Operations Research III	MATH3141	20
Partial Differential Equations III	MATH3291	20
Quantum Mechanics III	MATH3111	20
Statistical Methods III	MATH3051	20
Topology III	MATH3281	20

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING MATHEMATICS

Level 1	MATH1012 Core Mathematics A and MATH1051 Core Mathematics B1.
Level 2	If the other subject is not Physics MATH1051 Core Mathematics B1 (if not taken previously). Any other modules selected from the Level 2 Mathematics modules listed above. If the other subject is Physics at least MATH2021 Linear Algebra II, MATH2031 Analysis in Many Variables II and either MATH2011 Complex Analysis II or MATH2121 Contours and Hyperbolic Geometry II must be taken.
Level 3	Students select modules from the Level 3 Mathematics modules listed above. If Maths modules to the value of 60 or 80 credits are taken one 20 credit module can be at Level 2.

PHILOSOPHY MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1 Modules	Ethics and Values	PHIL1011	20
	History and Theory of Medicine	PHIL1051	20
	History of Scientific Thought	PHIL1071	20
	Introduction to Logic	PHIL1031	20
	Knowledge and Reality	PHIL1021	20
	Philosophy of Science	PHIL1061	20
	Reading Philosophy	PHIL1041	20
Level 2 Modules	Biomedical Ethics	PHIL2051	20
	Modern Philosophy I	PHIL2031	20
	Moral Theory	PHIL2041	20
	Philosophical Logic	PHIL2021	20
	Philosophy of Mind	PHIL2011	20
	Philosophy of Religion	PHIL2091	20
	Political Philosophy	PHIL2081	20
	Reason, Knowledge and Society	PHIL2111	20
	Science and Religion	PHIL2071	20
	Theory, Literature and Society	PHIL2131	20
Level 3 Modules	20 th Century European Philosophy	PHIL3051	20
	Aesthetics	PHIL3031	20
	Applied Ethics	PHIL3071	20
	Issues in Contemporary Ethics	PHIL3131	20
	Gender, Film and Society	PHIL3141	20
	Language and Mind	PHIL3061	20
	Metaphysics	PHIL3171	20
	Modern Philosophy II	PHIL3011	20
	Philosophical Issues in Contemporary Science	PHIL3021	20
	Philosophy Long Dissertation	PHIL3112	40
	Philosophy Short Dissertation	PHIL3101	20
	History of the Body	HEAL3001	20

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING PHILOSOPHY

- Level 1** Two 20 credit 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

Level 1 Modules	Discovery Skills in Physics	PHYS1101	20
	Foundations of Physics 1	PHYS1122	40
	Fundamental Physics	PHYS1111	20
	Introduction to Astronomy	PHYS1081	20
Level 2 Modules	Electronics and Physics Laboratory	PHYS2561	20
	Foundations of Physics 2	PHYS2511	20
	Laboratory Skills and Practice	PHYS2551	20
	Mathematical Methods in Physics	PHYS2521	20
	Stars and Galaxies	PHYS2541	20
	Thermal and Condensed Matter Physics	PHYS2531	20
Level 3 Modules	Astrophysics	PHYS3541	20
	Condensed Matter Physics	PHYS3531	20
	Foundations of Physics 3	PHYS3522	40
	Key Skills A	PHYS3561	20
	Key Skills B	PHYS3571	20
	Laboratory Project	PHYS3601	20
	Mathematics Workshop	PHYS3591	20
	Team Project	PHYS3581	20
	Theoretical Physics	PHYS3551	20

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING ASTRONOMY

- Level 1** [PHYS1101](#) Discovery Skills in Physics and ([PHYS1111](#) Fundamental Physics or [PHYS1122](#) Foundations of Physics 1) ([MATH1561](#) Single Mathematics A and [MATH1571](#) Single Mathematics B) or [MATH1012](#) Core Mathematics A or [MATH1551](#) Mathematics for Engineers and Scientists
- Level 2** [PHYS2541](#) Stars and Galaxies and [PHYS2551](#) Laboratory Skills and Practice plus one other 20 credit module of Physics at Level 1 or Level 2 excluding [PHYS1081](#) Introduction to Astronomy.
- Level 3** [PHYS3541](#) Astrophysics and [PHYS3601](#) Laboratory Project.

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING PHYSICS

- Level 1** [PHYS1122](#) Foundations of Physics 1 ([MATH1561](#) Single Mathematics A and [MATH1571](#) Single Mathematics B) or [MATH1012](#) Core Mathematics A or [MATH1551](#) Mathematics for Engineers and Scientists
- Level 2** For a Joint Honours ‘and’ or a Joint Honours ‘Physics with’ degree not involving Mathematics, the following must be taken [PHYS2511](#) Foundations of Physics 2, [PHYS2521](#) Mathematical Methods in Physics and [PHYS1101](#) Discovery Skills in Physics if not taken previously. The module [PHYS2551](#) Laboratory Skills and Practice is also required for these degrees, but may be taken in either Level 2 or Level 3.

For a Joint Honours ‘and’ or a Joint Honours ‘Physics with’ degree with Mathematics, [PHYS2511](#) Foundations of Physics 2 and at least two of [PHYS2531](#) Thermal and Condensed Matter Physics, [PHYS2541](#) Stars and Galaxies, [PHYS2551](#) Laboratory Skills and Practice must be taken. The modules [PHYS2551](#) Laboratory Skills and Practice and [PHYS2531](#) Thermal and Condensed Matter Physics must be taken in either Level 2 or Level 3.

If the other subject is Mathematics, [PHYS2521](#) Mathematical Methods in Physics cannot be taken.

For a Joint Honours ‘Physics with’ degree **PHYS2531** Thermal and Condensed Matter Physics must be taken in either Level 2 or Level 3.

For a Joint Honours ‘with Physics’ degree modules selected from the Level 2 Physics modules listed above.

Level 3 For a Joint Honours ‘and’ or a Joint Honours ‘Physics with’ degree **PHYS3522** Foundations of Physics 3 must be taken. Any further modules must be selected from the Level 3 Physics modules listed above. If **PHYS2551** Laboratory Skills and Practice was not taken in Level 2 it must be taken in Level 3.

For a Joint Honours ‘with Physics’ degree modules can be selected from the Level 3 Physics modules listed above.

For a Joint Honours ‘Physics with’ degree **PHYS2531** Thermal and Condensed Matter Physics must be taken in either Level 2 or Level 3.

Accreditation note: Joint Honours degrees of the type ‘Physics and A’ and ‘Physics with A’, where A can be Anthropology, Chemistry, Computer Science, Earth Science, Economics, Mathematics and Philosophy, are accredited by the Institute of Physics until February 2009.

PSYCHOLOGY MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1 Modules	Introduction to Psychological Research	PSYC1062	40
	Introduction to Psychology I	PSYC1071	20
	Introduction to Psychology II	PSYC1081	20
Level 2 Modules	Abnormal Psychology and Personality	PSYC2071	20
	Brain Processes of Cognition and Perception	PSYC2111	20
	Memory and Language	PSYC2081	20
	Social and Developmental Psychology	PSYC2021	20
Level 3 Modules	Cognitive Psychology	PSYC3151	20
	Developmental Psychology	PSYC3031	20
	Emotion and Social Cognition	PSYC3171	20
	Neuropsychology	PSYC3011	20
	Psychology Project and Statistics	PSYC3041	20
	Social Psychology	PSYC3081	20
	The Architecture of Vision	PSYC3181	20
	The Evolution of Human Behaviour	PSYC3141	20
	Advanced Applied Psychology	PSYS3211	20
	Applications of Cognitive Psychology	PSYS3191	20
	Applied Development Psychology	PSYS3171	20
	Basic and Applied High-Level Cognition	PSYS3201	20
	Clinical Cognitive Neuroscience	PSYS3191	20
	The Science of Consciousness	PSYS3161	20
	Psychology and Health	PSYS3041	20

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING PSYCHOLOGY

Level 1	PSYC1062 Introduction to Psychological Research and normally PSYC1071 Introduction to Psychology I. PSYC1081 Introduction to Psychology II can be taken if PSYC1071 Introduction to Psychology I does not fit in the timetable, but for a BPS accredited Joint Honours ‘and’ or ‘Psychology with’ degree, PSYC1081 Introduction to Psychology II can only be taken if students have Biology at A Level with grade B or higher (or the equivalent in other qualifications).
Level 2	At least: PSYC2081 Memory and Language PSYC2111 Brain Processes of Cognition and Perception PSYC2021 Social and Developmental Psychology.
Level 3	For a Joint Honours ‘and’ or ‘Psychology with’ degree, PSYC3041 Psychology Project and Statistics, PSYC2071 Abnormal Psychology and Personality (if not taken previously) and Psychology module(s) to the value of either 20 or 40 credits from the Level 3 Psychology list above must be taken.

For a Joint Honours ‘with Psychology’ degree, modules selected from the Level 2 or Level 3 Psychology modules listed above.

Accreditation note: The specified pathways through the ‘and’ and ‘Psychology with’ programmes shown in the regulations are accredited from 2003 - 2004 for five cohorts as conferring eligibility for Graduate Membership of The British Psychological Society with the Graduate Basis for Registration. Students entering in and after October 2006 need to achieve a minimum of a second class honours degree to gain eligibility. Joint Honours degrees of the form ‘A with Psychology’ are not accredited.
