

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).
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.

For 2007 entrants onwards
BSc NATURAL SCIENCES (CFG0)

Programme offered at: Durham.

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

- All module selections must be approved by the Deputy Dean (Natural Sciences).
- 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.
- 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.
- 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.
- 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	Ec	Economics
Ar	Archaeology	Gg	Geography
As	Astronomy	Ma	Mathematics
Bi	Biology	Ph	Philosophy
Bs	Business	Py	Physics
Ch	Chemistry	Ps	Psychology
CS	Computer Science	St	Statistics
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.

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	Human Origins and Diversity	ANTH1071	20
Modules	People and Cultures	ANTH1061	20
Level 2	Biological Anthropology I	ANTH2061	20
Modules	Biological Anthropology II	ANTH2011	20
	Biology, Culture and Society	ANTH2021	20
	Field Methods	ANTH2031	20
	Sociocultural Anthropology I	ANTH2051	20
	Sociocultural Anthropology II	ANTH2041	20
Level 3	Business Anthropology	ANTH3041	20
Modules	Change and Development	ANTH3111	20
	Current Issues in Sociocultural Anthropology	ANTH3011	20
	Dissertation in Anthropology	ANTH3141	20
	Human Evolution	ANTH3061	20
	Hunters and Gatherers Past and Present (AN)	ANTH3071	20
	Medical and Nutritional Anthropology	ANTH3151	20
	Primate Evolution and Adaptation	ANTH3091	20
	Regional Studies *	ANTH3181	20
	Social Evolution	ANTH3121	20
	Anthropology of Community in Britain *	HUSS3351	20
	Applying Anthropology: From Knowledge and Practice *	HUSS3251	20
	Cyber Anthropology	HUSS3471	20
	Environmental Anthropology	HUSS3231	20
	Evolutionary Medicine	HUSS3361	20
	Mental Health, Illness and Drug Use	HUSS3241	20
	Nations and Ethnic Groups	HUSS3331	20
	New Perspectives on Family and Kinship *	HUSS3321	20
	Populations and Development	HUSS3311	20
	Reconstructing Ancient Populations	HUSS3201	20

* Not available in 2006-2007.

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING ANTHROPOLOGY

Level 1	ANTH1071 Human Origins and Diversity
	ANTH1061 People and Cultures
Level 2	ANTH2061 Biological Anthropology I and/or ANTH2011 Biological Anthropology II. Any further modules in Anthropology must be selected from the Level 2 Anthropology modules listed above.
Level 3	Modules selected from the Level 3 Anthropology modules listed above. If Anthropology modules to the value of 60 credits or more are taken, one 20 credit module can be at Level 2.

ARCHAEOLOGY MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1	Ancient Civilisations of the East	ARCH1111	20
Modules	Discovering World Prehistory	ARCH1121	20
	From Roman Empire to Nation State	ARCH1101	20
	Introduction to Archaeology	ARCH1071	20
	Scientific Methods in Archaeology 1	ARCH1041	20
Level 2	Ancient Complex Societies in Action	ARCH2141	20
Modules	Scientific Methods in Archaeology 2	ARCH2041	20
	Archaeology of Medieval and post-Medieval Britain	ARCH2131	20
	Experimental Methods in 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	Archaeological Artefacts and Materials *	ARCH3471	20
Modules	Archaeological Surveying *	ARCH3491	20
	Archaeology Dissertation (20 Credits)	ARCH3371	20

Computer Techniques in Archaeology *	ARCH3071	20
Scientific Methods in Archaeology 3	ARCH3051	20
Hunters and Gatherers Past and Present (AR)	ARCH3521	20
Specialised Aspects of Archaeology (20 Credits)	ARCH3451	20
Specialised Aspects of 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.

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	Core Skills for Biology	BIOL1091	20	
Modules	Introduction to Molecular and Cell Biology	BIOL1072	40	
	Introduction to Whole Organisms and the Environment	BIOL1082	40	
	Level 2	Animal Biology	BIOL2231	20
Modules	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	Advanced Biochemistry (Lit)	BIOL3371	20
	Modules	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	
Crop Protection (L)		BIOL3321	20	
Development 2 (P)		BIOL3281	20	
Health and Environment (P)		BIOL3411	20	
Molecular and Cellular Physiology (Lit)		BIOL3231	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
Level 2	Modules selected from the Level 2 Biology modules listed above.
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	Modules selected from the Level 2 Biology modules listed above.
Level 3	Modules selected from the Level 3 Biology modules listed above.

BUSINESS MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1	Introduction to Management	BUSI1101	20
Modules	Business Accounting and Finance	ECON1041	20
	Economic Methods	ECON1021	20
	Elements of Economics	ECON1011	20
Level 2	Marketing Management	BUSI2111	20
	The Small Business and its Development	BUSI2031	20
Level 3	Organisational Behaviour	BUSI2121	20
	Asia and the Pacific Rim	BUSI3041	20
	Dissertation in Business (20 Credits)	BUSI3091	20
Modules	Public Administration and Management	BUSI3031	20

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
	Chemistry of the Elements	CHEM2021	20
	Computational Chemistry	CHEM2061	20
	Core Chemistry 2	CHEM2012	40
	Properties of Molecules	CHEM2041	20
Level 3	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.
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COMPUTER SCIENCE MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1	Computer Systems	COMP1071	20
Modules	Formal Aspects of Computer Science	COMP1021	20
	Foundations of Computer Science	COMP1041	20

	Introduction to Programming	COMP1011	20
	Programming and Data Structures	COMP1082	40
Level 2	Computer Systems II	COMP2161	20
Modules	Programming and Reasoning	COMP2171	20
	Software Applications	COMP2071	20
	Software Engineering	COMP2092	40
	Theory of Computation	COMP2181	20
Level 3	Advanced Artificial Intelligence (20 Credits)	COMP3311	20
Modules	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
	Artificial Intelligence Project	COMP3292	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	Earth and Environment	GEOL1041	20
Modules	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	Chemical Tracing of Earth Processes	GEOL2171	20
Modules	Earth Visualisation L2	GEOL2221	20
	Fieldwork I	GEOL2191	20
	Fieldwork II	GEOL2201	20
	Fossils and Dynamic Stratigraphy of the British Isles	GEOL2051	20
	Geophysics Methods in Geology	GEOL2081	20
	Petrology of Earth Materials	GEOL2031	20
	Structural Geology and Tectonics	GEOL2011	20
Level 3	Dissertation	GEOL3022	40
Modules	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
	Geology and Geophysics Dissertation	GEOL3131	20
	Magmatism	GEOL3051	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 [GEOL101](#)How the Earth Works
[GEOL102](#)Earth Materials

To obtain accreditation the above two modules must be taken. In addition [GEOL105](#)Field Studies and [GEOL104](#)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 [GEOL219](#)Fieldwork 1, [GEOL104](#)Earth and the Environment and [GEOL105](#)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 [GEOL302](#)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 [GEOL101](#)How the Earth Works
[GEOL102](#)Earth Materials
 ([MATH156](#)Single Mathematics A and [MATH157](#)Single Mathematics B) or [MATH155](#)Mathematics for Scientists and Engineers or [MATH102](#)Core Maths A or [GEOL106](#)Mathematical Methods in Geosciences

Level 2 Modules selected from the Level 2 Earth Sciences modules listed above.

Level 3 Modules selected from:
[GEOL302](#)Dissertation
[GEOL322](#)Petroleum Geophysics
[GEOL315](#)Earth Structure and Dynamics
[GEOL313](#)Geology and Geophysics Dissertation

ECONOMICS MODULES AVAILABLE TO NATURAL SCIENCES STUDENTS

Level 1 Modules	Business Accounting and Finance	ECON104	20
	Economic Methods	ECON102	20
	Elements of Economics	ECON101	20
	Introduction to Environmental Economics	ECON105	20
	The British Economy	ECON103	20
Level 2 Modules	Business Competition	ECON208	20
	Corporate Finance	ECON210	20
	Economic Data Analysis	ECON206	20
	Economic Principles I: Macroeconomics	ECON201	20
	Economic Principles II: Microeconomics	ECON202	20
	Economics of Social Policy	ECON209	20
	European Economics	ECON207	20
Level 3 Modules	Intermediate Methods for Economics and Finance	ECON212	20
	Advanced Macroeconomic Theory	ECON320	20
	Advanced Microeconomic Theory	ECON321	20
	Applied Econometrics	ECON301	20
	Development Economics	ECON317	20

Dissertation in Economics	ECON3012	40
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

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
	Information Technology and Skills for Geographers	GEOG1201	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 and Landforms (with Project)	GEOG2341	20
	Global Climate Change	GEOG2571	20
	Political Geography	GEOG2581	20
	Quaternary Studies with Field Weekend	GEOG2321	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
	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	
Visual Culture, Media and the Politics of Place	GEOG3571	20	

* Not available in 2006-2007.

REQUIREMENTS FOR BSc JOINT HONOURS DEGREES INVOLVING GEOGRAPHY

Level 1	Two 20 credit modules from the following: GEOG1081 Physical Geography GEOG1071 Human Geography GEOG1201 Information Technology and Skills for Geographers 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
Level 2 Modules	Statistics	MATH1541	20
	Algebra and Number Theory II	MATH2061	20
	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
	Mathematical Physics II	MATH2071	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 2006-2007</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
	<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 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. If the other subject is Physics, then MATH1051 Core Mathematics B1 must be taken.
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 of Scientific Thought	PHIL1071	20	
	Introduction to Logic	PHIL1031	20	
	History and Theory of Medicine	PHIL1051	20	
	Knowledge and Reality	PHIL1021	20	
	Philosophy of Science	PHIL1061	20	
Level 2 Modules	Reading Philosophy	PHIL1041	20	
	Biomedical Ethics	PHIL2051	20	
	Logic	PHIL2021	20	
	Metaphysics	PHIL2141	20	
	Modern Philosophy I	PHIL2031	20	
	Moral Theory	PHIL2041	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	
Ethical Concepts		PHIL3131	20	
Gender, Film and Society		PHIL3141	20	
Modern Philosophy II		PHIL3011	20	
Ontology		PHIL3161	20	
Philosophical Issues in Contemporary Science		PHIL3021	20	
Philosophy Long Dissertation		PHIL3112	40	
Philosophy of Language		PHIL3061	20	
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	Astronomy for All	PHYS1071	20
	Discovery Skills in Physics	PHYS1101	20
	Foundations of Physics 1	PHYS1122	40
	Fundamental Physics A	PHYS1111	20

Level 2 Modules	Fundamental Physics B	PHYS1131	20
	Introduction to Astronomy	PHYS1081	20
	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
Level 3 Modules	Thermal and Condensed Matter Physics	PHYS2531	20
	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 A 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	Introduction to Psychological Research	PSYC1062	40	
Modules	Introduction to Psychology I	PSYC1071	20	
	Introduction to Psychology II	PSYC1081	20	
Level 2	Abnormal Psychology and Personality	PSYC2071	20	
	Modules	Brain Processes of Cognition and Perception	PSYC2111	20
Memory and Language		PSYC2081	20	
Social and Developmental Psychology		PSYC2021	20	
Level 3	Child Health Psychology	PSYC3061	20	
	Modules	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
		Applications of Cognitive Psychology	PSYS3191	20
		Applied Development Psychology	PSYS3171	20
		Clinical Cognitive Neuroscience	PSYS3191	20
		Psychology and Health	PSYS3041	20
		The Psychology of Education and Science	PSYS3181	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 or Psychology 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.
