



Natural Sciences Degrees Choices and Options 2020/21

Subject Choices for the Natural Sciences

The Natural Sciences degrees are built around a set of **subject streams** for both the BSc and MSci courses. The subject streams are built from a string of **subject blocks** that progress through the years of the course. Each subject block is composed of a number of **units** taught at the University. The details of the units and blocks are given in the BSc and MSci flowcharts <u>https://www.bath.ac.uk/publications/natural-sciences-course-selection-guide/</u>.

The BSc and MSci degrees are built as collations of subject streams. Each collation has a **major science subject** which is ultimately the primary focus of study, and a **minor science stream**. Your major subject is the subject in which you ultimately perform your final year research project and that final year choice is enabled by double blocks of units in earlier years.

All permitted collations for year one enable two or three possible major subjects for later years. Your course can adapt to your developing interest and abilities in the Natural Sciences subjects. The units and the collations are on the University catalogue: <u>https://www.bath.ac.uk/catalogues/2020-2021/s/s-proglist-ug.html</u>.

The MSci and BSc subject streams and collations are identical for years one and two, but diverge after that. There is no advantage in starting on either MSci or BSc, and with suitable examination results you can switch between them, **except for BSc only** collations, which cannot be taken to the masters level.

Note these collations are not prescribed named degrees like *Physics with Astrophysics* that enforce a single path through the course. You may switch between collations as you wish if your block choices allow it, e.g. it is trivial in years one and two to swap from *Chemistry major with Physics* to *Physics major with Chemistry*. First year blocks are the foundation to your course; example - taking the single block of pharmacology in year 1 of the *Biochemistry with Chemistry* collation can lead to majoring in Pharmacology later in the course.

Your selection of blocks in Year 1 and Year 2 must be drawn from a selection available in one of these named collations.

MASTER'S OR BSc COLLATIONS:

Biochemistry major with Chemistry and Molecular Biology	<u>MSci</u>	<u>BSc</u>
Biochemistry major with Pharmacology	<u>MSci</u>	<u>BSc</u>
Biology major with Chemistry	<u>MSci</u>	<u>BSc</u>
Biology major with Pharmacology	<u>MSci</u>	<u>BSc</u>
Biology major with Physics	<u>MSci</u>	<u>BSc</u>
Chemistry major with Biochemistry	<u>MSci</u>	<u>BSc</u>
Chemistry major with Biology	<u>MSci</u>	<u>BSc</u>
Chemistry major with Pharmacology	<u>MSci</u>	<u>BSc</u>
Chemistry major with Physics	<u>MSci</u>	<u>BSc</u>
Physics major with Biology	<u>MSci</u>	<u>BSc</u>
Physics major with Chemistry	<u>MSci</u>	<u>BSc</u>

BSc ONLY COLLATIONS:

Biochemistry major with Environmental Science	<u>BSc</u>
Biology major with Environmental Science	<u>BSc</u>
Chemistry major with Environmental Science	<u>BSc</u>
Environmental Science major with Biochemistry	<u>BSc</u>
Environmental Science major with Biology	<u>BSc</u>
Environmental Science major with Chemistry	<u>BSc</u>
Environmental Science major with Physics	<u>BSc</u>
Pharmacology major with Biochemistry	<u>BSc</u>
Pharmacology major with Biology	<u>BSc</u>
Pharmacology major with Chemistry	<u>BSc</u>
Physics major with Environmental Science	<u>BSc</u>

THE ACADEMIC YEAR

Each academic year consists of two 15 week semesters each of which will normally have 11 weeks of teaching and then revision and exams on that semester. In each year you have to take 60 credits of material, which is usually 5 blocks such as the biology block B2.1 or the chemistry block C1.3 (although some final year projects are 18 or 24 credits as they are significant pieces of work). Each block is composed of units from the contributing department, often with a choice, so for example B3.1 takes *BB30208 Evolutionary quantitative genetics* and a choice of *BB30131 Evolution in deep time* and *BB30132 Sexual conflict*.

PRE-REQUISITES

One of the keys to understanding the Bath Natural Sciences course is the idea of **pre-requisites**. In order to progress in most subjects, you have to show you have some required prior knowledge. That could be taking particular A Levels, or for example passing a year two biology course to get onto a 3rd year project. The pre-requisites ensure that you will get **depth** to match the **breadth** of the course. Some non-science courses have no pre-requisites – this can be useful for trying new subjects and interests later in the course.

MAKEUP OF COLLATIONS

The major subject stream must consist of two **blocks** of units each year (with the exception of Environmental Sciences), and a final year project or dissertation. The remaining three blocks of each year are taken up by minor science strands and choices of science and non-science units. Once blocks are chosen in year one, they set up *requisites* for further study that may constrain which blocks can be chosen in subsequent years.

Major and minor first year blocks				
Major/minor block name	First year blocks	Requires	Forbidden with	A Level requirements
Biochemistry	Bc1.1	LS1.1	Physics, some Biology	Chemistry; Biology preferred
Biology	B1.1	LS1.1	Biochemistry	Biology
Chemistry	C1.1, C1.2, C1.3		Maximum two Chemistry blocks per year	Chemistry
Pharmacology	Pc1.1	LS1.1	Physics, Environmental Studies	Chemistry, Biology preferred
Physics	P1.1, P1.2	M1.1	Biochemistry, Pharmacology	Physics, Maths
Environmental Science	Begins Yr 2		Pharmacology	Chemistry

Once major and minor streams have been chosen, there will *usually* be space for optional blocks (see details in collations). There are also some forbidden combinations that have been introduced to aid with the academic coherence of the permitted collations and with timetabling.

FLEXIBILITY

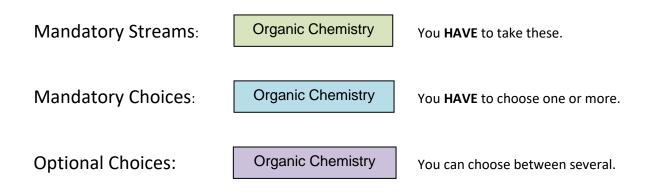
ALL final year blocks of the MSci have to be taken at master's level and within science, which reduces flexibility, but there is *usually* room for manoeuvre within the streams later in the course. Many streams have choices between units within them. In addition one of the minor science streams in the BSc final year can usually be replaced by an optional slot, for example to continue the third year of a non-science option.

The ZZ block, the <u>Director of Studies Approved Units</u>, may allow the selection of units from other departments or the mixing of units between blocks.

See the examples at the end of the document.

Help with the detailed options

The following pages show the outlines of streams that should be the basis of your choices, along with the options available. They are colour coded as follows:



PRE-REQUISITES

The charts show how studying one block allows the study of a subsequent block, or conversely how a block requires blocks to be studied in a previous year by linking lines. So from this example,

Cell & mol. biology Ls1.1	Molecular biology B2.3 Molecular biology B3.3
	Genomics B2.4 Genomics B3.4
	Development/Neuroscience B2.5 Development/Neuroscience B3.5

Talking the block Ls1.1 enables B2.3 or B2.4 or B2.5 to be taken in year two. To take B3.5 in year 3, you must take B2.5 in year two and have taken Ls1.1 in year one.

HELP WITH MAKING YOUR CHOICES

The charts in the following pages show in detail the default make-up of the collations for BSc and MSci majors.

You can tweak these using the Natural Sciences Web Tool at <u>www.bath.ac.uk/nat-sci/mycourse</u> to experiment with other routes through the course. The tool shows you routes to final endpoints

Please note that a number of final year selections can branch from one first year selection of blocks. Experiment to find the best starting point for you.

See details of the teaching units making up the stream blocks on flowcharts at:

BSc-2019-20-flowchart.pdf

MSci-2019-20-flowchart.pdf

There may be rare occasions where due to unforeseen or unavoidable circumstances it becomes necessary to make significant changes to a course or to withdraw it or part of it (e.g. a particular unit/module). Visit: www.bath.ac.uk/study/ug/apply/admissions/changes-withdrawal

Please note: for 2020/21, Education 1 will only be available in Semester 2 for Year 1. If you would like to choose this option, you will need to select a Semester 1 option from a different stream; for example the Management stream or M1.2, Mathematics for the life sciences.

Find out more about this and other important University terms and conditions:

http://go.bath.ac.uk/ugp-important-terms

BIOCHEMISTRY

BIOCHEMISTRY MAJOR WITH CHEMISTRY MSci

	Year One	Year Two	Year Three	Final Year
	Mandatory			
	Biochemistry BC1.1	Biochemistry BC2.1	Biochemistry BC3.1	Biochemistry BC4.1
				Biochemistry Project
jor		Each year choose c	ne OR two from the options, foll	owingprerequisites
Ma jor stry	Mol. & cell biology Ls1.1	Cell biology B2.3	Cell biology B3.3	Cell biology B4.3
nistry Ma chemistry		Developmental & neuro B2.5	Developmental & neuro B3.5	Developmental & neuro B4.5
		Choose two stream	ns from the options	
oc hei with	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1	Organic chemistry C4.1
Bic	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2	Inorganic chemistry C4.2
	Physical chemistry C1.3	Physical chemistry C2.3	Physical chemistry C3.3	Physical chemistry C4.3
	Choose one free option	Choose one option for		May drop one block of chem and take option

OPTIONS

	Year One	Year Two	Year Three	Final Year
Biochemistry major with Chemistry	Physiology Pc1.1	Pharmacology Pc2.1	Pharmacology Pc3.1	Pharmacology Pc4.1
majo		with double Pharmacology	minor	
istry ry		Energy/Sustain Env2.1	State of Planet Env3.1	
iochemis Chemistry			Water Cycle Env3.2	
	Maths for life sciences 1	Maths for life sciences 2	Maths for life sciences 3	
ns for	Education 1	Education 2	Education 3	
Options	Management 1	Management 2	Mangagement 3	
	Psychology 1	- Psychology 2	Psychology 3	

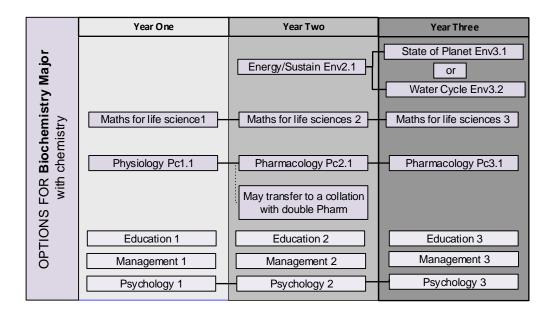
DIRECTOR OF STUDIES APPROVED UNITS

Year One	Year Two	Year Three	Final Year
		BSc DoS Approved Units	MSci DoS Approved Units

BIOCHEMISTRY MAJOR WITH CHEMISTRY BSc

	Year One	Year Two	Year Three
		Mandatory	
	Biochemistry BC1.1	Biochemistry BC2.1	Biochemistry BC3.1
			Biochemistry Project
-	Mol. & cell biology Ls1.1	Choose one or two block	s following prerequisites
r Maj i istry		Cell biology B2.3	Cell biology B3.3
Biochemistry Major with chemistry		Developmental & neuro B2.5	Developmental & neuro B3.5
cher with	CI	noose two streams from the option	ons
Bio	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1
	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2
	Physical chemistry C1.3	Physical chemistry C2.3	Physical chemistry C3.3
	Choose one free option	Choose one option if needed	May drop one block chem and take option below

OPTIONS

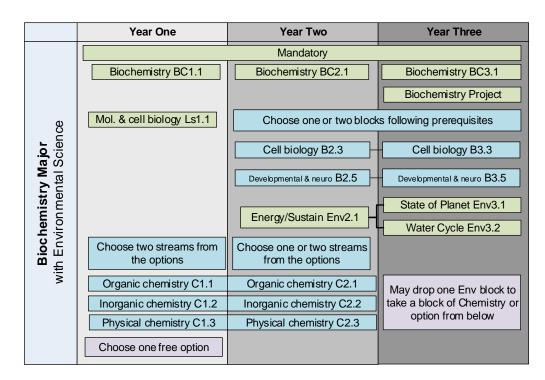


DIRECTOR OF STUDIES APPROVED UNITS

Year One	Year Two	Year Three
		BSc DoS Approved Units

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BIOCHEMISTRY MAJOR WITH ENVIRONMENTAL SCIENCE BSc



OPTIONS

e c	Year One	Year Two	Year Three
hemistry Science	Maths for life science1	Maths for life sciences 2	Maths for life sciences 3
Bioc ental	Physiology Pc1.1	Pharmacology [@]	
s FOR ironm	Education 1	Education 2	Education 3
	Management 1	Management 2	Management 3
OPTIONS with Envir	Psychology 1	Psychology 2	Psychology 3

[@] You may take single or double pharmacology in year 2 by transferring to a collation with pharmacology as a major or minor. Pharmacology is a forbidden combination with Environmental Studies.

DIRECTOR OF STUDIES APPROVED UNITS

Year One	Year Two	Year Three
		BSc DoS Approved Units

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BIOCHEMISTRY MAJOR WITH PHARMACOLOGY MSci

	Year One	Year Two	Year Three	Final Year
		Mano	datory	
	Biochemistry BC1.1	Biochemistry BC2.1	Biochemistry BC3.1	Biochemistry BC4.1
r 2				Biochemistry Project
Major ∞logy	Physiology Pc1.1	Pharmacology Pc2.1	Pharmacology Pc3.1	Pharmacology Pc4.1
		Pharmacology Pc2.2	Pharmacology Pc3.2	Pharmacology Pc4.2
Biochemistry Majo with pharmacology	Mol. & cell biology Ls1.1	Each year choose	one or two from the options, follo	owing prerequisites
3ioch with		Cell biology B2.3	Cell biology B3.3	Cell biology B4.3
		Development/Neuroscience B2.5	Development/Neuroscience B3.5	Development/Neuroscience B4.5
	Choose two options	Choose an option from be	low if desired as fifth block	May drop Pc4.2 and take option below [^]

OPTIONS

	Year One	Year Two	Year Three	Final Year
r				
Major	Organic chemistry C1.1[*]	Organic chemistry C2.1	Organic chemistry C3.1	Organic chemistry C4.1
	Inorganic chemistry C1.2 [*]	Inorganic chemistry C2.2	Inorganic chemistry C3.2	Inorganic chemistry C4.2
emistry acology	Physical chemistry C1.3 [*]	Physical chemistry C2.3	Physical chemistry C3.3	Physical chemistry C4.3
Bioch	Maths for life sciences 1	Maths for life sciences 2	Maths for life sciences 3	
with	Psychology 1	Psychology 2	Psychology 3	
Options	Education 1	Education 2	Education 3	
U	Management 1	Management 2	Management 3	

[*] Note: taking double chemistry in Year 1 allows transfer to a collation naming Chemistry in Year 2 with chemistry as the major or minor. E.g. Biochemistry or Pharmacology with Chemistry

[^] Dropping double pharmacy for double chemistry in the final year is a transfer to Biochemistry with Chemistry MSci.

DIRECTOR OF STUDIES APPROVED UNITS

Year One	Year Two	Year Three	Final Year
		BSc DoS Approved Units	MSci DoS Approved Units

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BIOCHEMISTRY MAJOR WITH PHARMACOLOGY BSc

	Year One	Year Two	Year Three
		Mandatory	
	Biochemistry BC1.1	Biochemistry BC2.1	Biochemistry BC3.1
L			Biochemistry Project
la jo logy	Physiology Pc1.1	Pharmacology Pc2.1	Pharmacology Pc3.1
Biochemistry Major with pharmacology		Pharmacology Pc2.2	Pharmacology Pc3.2
emi: ohar	Mol. & cell biology Ls1.1	Choose one or two option	ns subject to prerequisites
ioch vith _l		Cell biology B2.3	Cell biology B3.3
Ē		Development/Neuroscience B2.5	Development/Neuroscience B3.5
	Choose two options – at least one science	Choose one option – following prerequisites if needed for fifth block	May drop Pc2.3 to take an option from below

OPTIONS

	Year One	Year Two	Year Three
-	Science options		
Major	Organic chemistry C1.1 [*]	Organic chemistry C2.1	Organic chemistry C3.1
`	Inorganic chemistry C1.2 [*]	Inorganic chemistry C2.2	Inorganic chemistry C3.2
colc	Physical chemistry C1.3 [*]	Physical chemistry C2.3	Physical chemistry C3.3
Biochemistry pharmacology	Maths for life sciences 1	Maths for life sciences 2	Maths for life sciences 3
s for with	Non-Science options		
Options for with	Education 1	Education 2	Education 3
ор	Management 1	Management 2	Management 3
	Psychology 1	Psychology 2	Psychology 3

[*] Note: taking double chemistry in Year 1 allows transfer to a collation naming Chemistry in Year 2 with chemistry as the major or minor. i.e. Biochemistry or Pharmacology with Chemistry

Year One	Year Two	Year Three
		BSc DoS Approved Units

BIOLOGY

BIOLOGY MAJOR WITH CHEMISTRY MSci

	Year One	Year Two	Year Three	Final Year
				Mandatory
				Biology Project
	Mandatory	Choose between two a	nd three from the biology options	s, following prerequisites
mistry	Cell & mol. biology Ls1.1 -	Genomics B2.4 Molecular biology B2.3	Genomics B3.4	Genomics B4.4 Molecular biology B4.3
Biology major with Chemistry	Choose one	Development/Neuroscience B2.5	Development/Neuroscience B3.5	Development/Neuroscience B4.5
or <	Evolution and Ecology B1.1	Evolution and Ecology B2.1	Evolution and Ecology B3.1	Evolution and Ecology B4.1
maj	Plant Science B1.2	Plant Science B2.2	Plant Science B3.2	Plant Science B4.2
logy		Choose two streams fro	om the chemistry options	
Bio	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1	Organic chemistry C4.1
	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2	Inorganic chemistry C4.2
	Physical chemistry C1.3	Physical chemistry C2.3	Physical chemistry C3.3	Physical chemistry C4.3
	Choose one free option	Choose one free option	if needed for fifth block	Drop one block chemistry and take option below.

OPTIONS

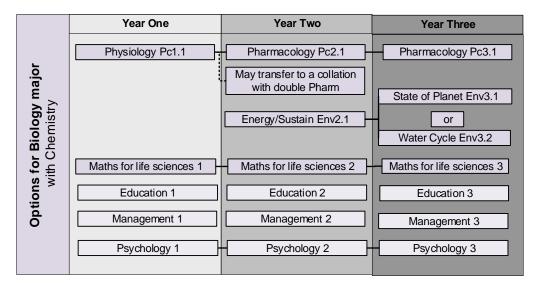
	Year One	Year Two	Year Three	Final Year
nistry	Physiology Pc1.1	- Pharmacology Pc2.1 -	Pharmacology Pc3.1	Pharmacology Pc4.1
th Cher		May transfer to a collation with double Pharm		
major with Chemistry		Energy/Sustain Env2.1	State of Planet Env3.1 or Water Cycle Env3.2	
Biology m	Maths for life sciences 1	Maths for life sciences 2	Maths for life sciences 3	
	Education 1	Education 2	Education 3	
suo	Management 1	Management 2	Mangagement 3	
Options for	Psychology 1	Psychology 2	- Psychology 3	

Year One	Year Two	Year Three	Final Year
		BSc DoS Approved Units	MSci DoS Approved Units

BIOLOGY MAJOR WITH CHEMISTRY BSc

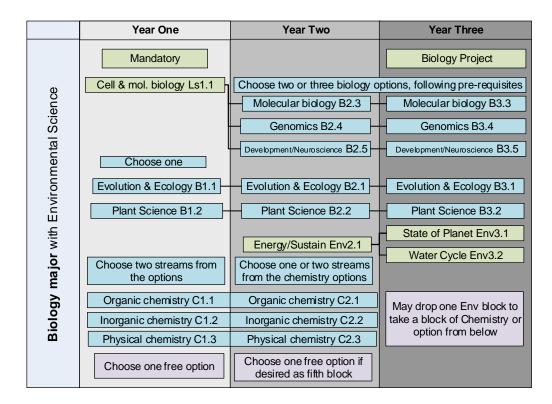
	Year One	Year Two	Year Three
	Mandatory		Biology Project
	Cell & mol. biology Ls1.1	Choose between the biology options, fo	
~		Molecular biology B2.3	Molecular biology B3.3
mistr		Genomics B2.4	Genomics B3.4
Biology major with Chemistry	Choose one	Development/Neuroscience B2.5	Development/Neuroscience B3.5
r wit	Evolution & Ecology B1.1	Evolution & Ecology B2.1	Evolution & Ecology B3.1
najo	Plant Science B1.2	Plant Science B2.2	Plant Science B3.2
JY n			
olo	Cł	noose two streams from the optic	ons
Bic	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1
	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2
	Physical chemistry C1.3	Physical chemistry C2.3	Physical chemistry C3.3
	Choose one free option	Choose one option if desired as fifth block	May drop one chemistry to take an option

OPTIONS



Year One	Year Two	Year Three
		BSc DoS Approved Units

BIOLOGY MAJOR WITH ENVIRONMENTAL SCIENCE BSc



OPTIONS

~ ee	Year One	Year Two	Year Three
iology Science	Maths for life science1	Maths for life sciences 2	Maths for life sciences 3
OPTIONS FOR B i ith Environmental	Physiology Pc1.1	Pharmacology [@]	
IS F onm	Education 1	Education 2	Education 3
TION En vir	Management 1	Management 2	Management 3
OP ⁻ with E	Psychology 1	– Psychology 2 –	Psychology 3

[@] You may take single or double pharmacology in year 2 by transferring to a collation with pharmacology as a major or minor. Pharmacology is a forbidden combination with Environmental Studies.

Year One	Year Two	Year Three
		BSc DoS Approved Units

BIOLOGY MAJOR WITH PHARMACOLOGY MSci

	Year One	Year Two	Year Three	Final Year
		Mano	latory	
	Physiology Pc1.1	Pharmacology Pc2.1	Pharmacology Pc3.1	Pharmacology Pc4.1
		Pharmacology Pc2.2	Pharmacology Pc3.2	Pharmacology Pc4.2
2				
log				Biology Project
aco				
arm	Mol. & cell biology Ls1.1	Choose two or	three from the options, following	prerequisites
Ph				
ţ ,		Molecular biology B2.3	Molecular biology B3.3	Molecular biology B4.3
_ ∧		Genomics B2.4	Genomics B3.4	Genomics B4.4
major with Pharmacology		Development/Neuroscience B2.5	Development/Neuroscience B3.5	Development/Neuroscience B4.5
л Т				
log	Choose one			
Biology	Evolution and Ecology B1.1	Evolution and Ecology B2.1	Evolution and Ecology B3.1	Evolution and Ecology B4.1
	Plant Science B1.2	Plant Science B2.2	Plant Science B3.2	Plant Science B4.2
	Choose two free options	Choose option for fi	ifth block if needed	May drop Pc4.2 and take option below.

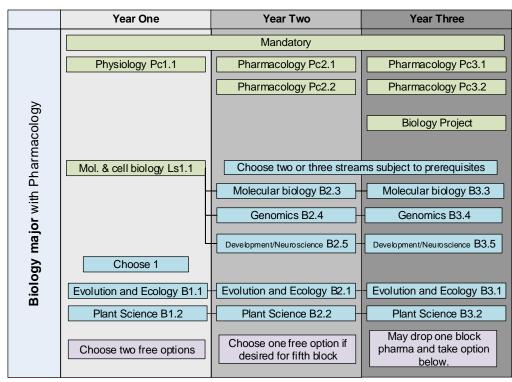
[*] Note: taking double chemistry in Year 1 allows transfer to a collation naming Chemistry in Year 2 with chemistry as the major or minor. i.e. Biology or Pharmacology with Chemistry

OPTIONS

	Year One	Year Two	Year Three	Final Year
	Organic chemistry C1.1[*]	Organic chemistry C2.1	Organic chemistry C3.1	Organic chemistry C4.1
5	Inorganic chemistry C1.2 [*]	Inorganic chemistry C2.2	Inorganic chemistry C3.2	Inorganic chemistry C4.2
Major gy	Physical chemistry C1.3 [*]	Physical chemistry C2.3	Physical chemistry C3.3	Physical chemistry C4.3
for Biology pharmacolo	Maths for life sciences 1	Maths for life sciences 2	Maths for life sciences 3	
Options 1 with	Psychology 1	Psychology 2	Psychology 3 Education 3	
	Management 1	Management 2	Mangagement 3	

Year One	Year Two	Year Three	Final Year
		BSc DoS Approved Units	MSci DoS Approved Units

BIOLOGY MAJOR WITH PHARMACOLOGY BSc



OPTIONS

	Year One	Year Two	Year Three
	Science options		
or	Organic chemistry C1.1 [*]	Organic chemistry C2.1	Organic chemistry C3.1
Ma j gy	Inorganic chemistry C1.2 [*]	Inorganic chemistry C2.2	Inorganic chemistry C3.2
ogy colo	Physical chemistry C1.3 [*]	Physical chemistry C2.3	Physical chemistry C3.3
Options for Biology Major with pharmacology	Maths for life sciences 1	Maths for life sciences 2	Maths for life sciences 3
ons with	Non-Science options		
Opti	Education 1	Education 2	Education 3
	Management 1	Management 2	Management 3
	Psychology 1	Psychology 2	Psychology 3

[*] Note: taking double chemistry in Year 1 allows transfer to a collation naming Chemistry in Year 2 with chemistry as the major or minor. i.e. Biology or Pharmacology with Chemistry

Year One	Year Two	Year Three
		BSc DoS Approved Units

BIOLOGY MAJOR WITH PHYSICS MSci

	Year One	Year Two	Year Three	Final Year
		Man	datory	
	Physics P1.1	Physics P2.1	Physics P3.1	Physics P4.1
	Physics P1.2	Physics P2.2	Physics P3.2	Physics P4.2
ഗ	Maths for physics M1.1	Maths for physics M2.1	Choose 1	Biology Project
Biology major with Physics			Maths for physics M3.1	
h Ph			Environmental Studies Env 2.1	
with				
jo		Each year	choose two biology streams following pre	e-requisites
ma	Cell & mol. biology Ls1.1	Molecular biology B2.3	Molecular biology B3.3	Molecular biology B4.3
ЛВс		Genomics B2.4	Genomics B3.4	Genomics B4.4
Biolo	L	Development/Neuroscience B2.5	Development/Neuroscience B3.5	Development/Neuroscience B4.5
	Choose 1			
	Evolution and Ecology B1.1	Evolution and Ecology B2.1	Evolution and Ecology B3.1	Evolution and Ecology B4.1
	Plant Science B1.2	Plant Science B2.2	Plant Science B3.2	Plant Science B4.2

OPTIONS

There are no optional streams on these courses.

Year One	Year Two	Year Three [€]	Final Year
		BSc DoS Approved Units	MSci DoS Approved Units

BIOLOGY MAJOR WITH PHYSICS BSc

	Year One	Year Two	Year Three
		Mandatory	
	Physics P1.1	Physics P2.1	Physics P3.1
	Physics P1.2	Physics P2.2	Physics P3.2
ysics	Maths for physics M1.1	Maths for physics M2.1	May drop a physics block for Maths for physics M3.1
Biology major with Physics			Biology Project
jor ∝		Each year choose two s	ubject to pre-requisites
ma	Cell & mol. biology Ls1.1	Molecular biology B2.3	Molecular biology B3.3
лбо	_	Genomics B2.4	Genomics B3.4
Biol	L	Development/Neuroscience B2.5	Development/Neuroscience B3.5
	Choose 1		
	Evolution & Ecology B1.1	Evolution & Ecology B2.1	Evolution & Ecology B3.1
	Plant Science B1.2	Plant Science B2.2	Plant Science B3.2

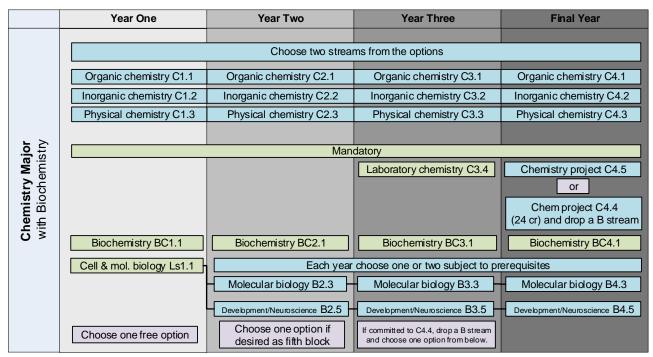
OPTIONS

There are no optional streams on these courses.

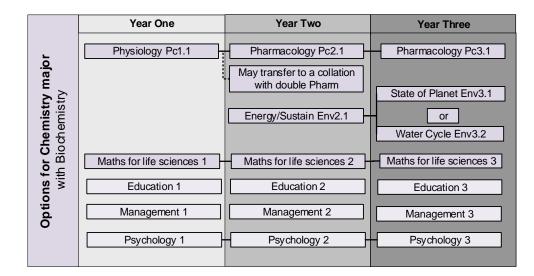
Year One	Year Two	Year Three
		BSc DoS Approved Units

CHEMISTRY

CHEMISTRY MAJOR WITH BIOCHEMISTRY MSci

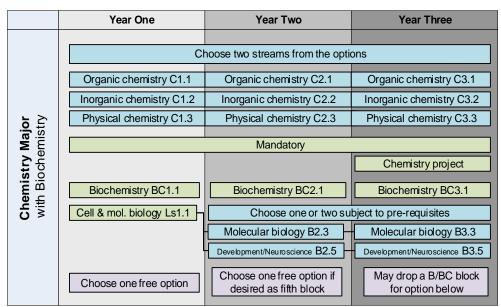


OPTIONS

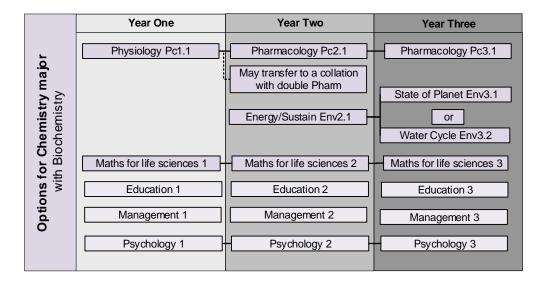


Year One	Year Two	Year Three	Final Year
			MSci DoS Approved Units

CHEMISTRY MAJOR WITH BIOCHEMISTRY BSc



OPTIONS

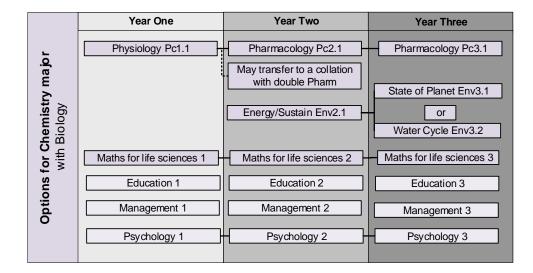


Year One	Year Two	Year Three
		BSc DoS Approved Units

CHEMISTRY MAJOR WITH BIOLOGY MSci

	Year One	Year Two	Year Three	Final Year	
	Choose two streams from the options				
	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1	Organic chemistry C4.1	
	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2	Inorganic chemistry C4.2	
	Physical chemistry C1.3	Physical chemistry C2.3	Physical chemistry C3.3	Physical chemistry C4.3	
		Man	datory		
ABC			Laboratory chemistry C3.4	Chemistry project C4.5	
Biolo				or	
Chemistry major with Biology				Chem project C4.4 (24 cr) and drop a B stream	
ů –		Choose two	or three biology streams subject to pr	e-requisites	
istry	Cell & mol. biology Ls1.1	Development/Neuroscience B2.5	Development/Neuroscience B3.5	Development/Neuroscience B4.5	
Chem	-	Molecular biology B2.3	Molecular biology B3.3	Molecular biology B4.3	
	L	Genomics B2.4	Genomics B3.4	Genomics B4.4	
	Choose 1				
	Evolution & Ecology B1.1	Evolution & Ecology B2.1	Evolution & Ecology B3.1	Evolution & Ecology B4.1	
	Plant Science B1.2	Plant Science B2.2	Plant Science B3.2	Plant Science B4.2	
	Choose 1 free option	Choose one free option if wanted for fifth block	If committed to C4.4, drop a B stream and choose one option from below.		

OPTIONS

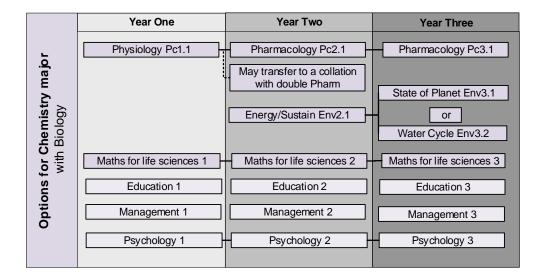


Year One	Year Two	Year Three	Final Year
			MSci DoS Approved Units

CHEMISTRY MAJOR WITH BIOLOGY BSc

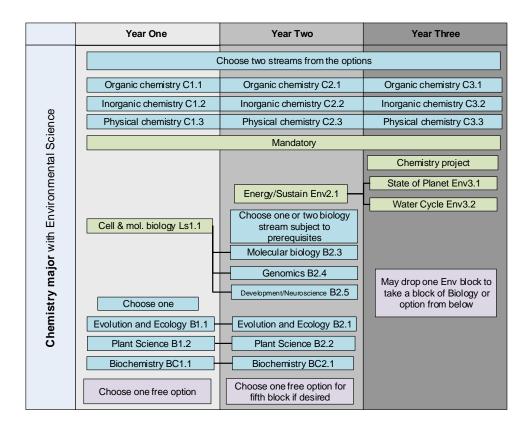
	Year One	Year Two	Year Three			
	Choose two streams from the options					
	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1			
	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2			
~	Physical chemistry C1.3	Physical chemistry C2.3	Physical chemistry C3.3			
olog		Mandatory				
ith Bi			Chemistry project			
or v	Cell & mol. biology Ls1.1	Choose two or three biology s	tream subject to pre-requisites			
najc	-	Molecular biology B2.3	Molecular biology B3.3			
L L		Genomics B2.4	Genomics B3.4			
Chemistry major with Biology	Choose one	Development/Neuroscience B2.5	Development/Neuroscience B3.5			
U U	Evolution and Ecology B1.1	Evolution and Ecology B2.1	Evolution and Ecology B3.1			
	Plant Science B1.2	Plant Science B2.2	Plant Science B3.2			
	Choose one free option	Choose one free option if desired for fifth block	May drop one biology to take an option from below subject to pre-requsites			

OPTIONS



Year One	Year Two	Year Three
		BSc DoS Approved Units

CHEMISTRY MAJOR WITH ENVIRONMENTAL SCIENCE BSc



OPTIONS

ר פ פ	Year One	Year Two	Year Three
R Chemistry ental Science	Maths for life science1	Maths for life sciences 2 May transfer to a collation with double Pharm	Maths for life sciences 3
OPTIONS FOR Ch with Environmental	Education 1 Management 1 Psychology 1	Education 2 Management 2 Psychology 2	Education 3 Management 3 Psychology 3
OPTIONS with Enviro	Management 1	Management 2	Management

[@] You may take single or double pharmacology in year 2 by transferring to a collation with pharmacology as a major or minor. Pharmacology is a forbidden combination with Environmental Studies.

Year One	Year Two	Year Three
		BSc DoS Approved Units

CHEMISTRY MAJOR WITH PHARMACOLOGY MSci

	Year One	Year Two	Year Three	Final Year	
	Choose two streams from the options				
δ	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1	Organic chemistry C4.1	
00	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2	Inorganic chemistry C4.2	
nac	Physical chemistry C1.3	Physical chemistry C2.3	Physical chemistry C3.3	Physical chemistry C4.3	
major with Pharmacology			Laboratory chemistry C3.4	Chemistry project C4.5 or Chem project C4.4 (24 cr) and drop a Pc stream	
Chemistry major	Physiology Pc1.1	Pharmacology Pc2.1 Pharmacology Pc2.2	Pharmacology Pc3.1 Pharmacology Pc3.2	Pharmacology Pc4.1 Pharmacology Pc4.2	
Che	Mol. & cell biology Ls1.1 Each year choos	e one free option	May drop PC3.2 for option below – if taking C4.4		

OPTIONS

gy	Year One	Year Two	Year Three
acolo		Molecular biology B2.3	Molecular biology B3.3
arm		Genomics B2.4	Genomics B3.4
- Ph		Development/Neuroscience B2.5	Development/Neuroscience B3.5
r with	Evolution & Ecology B1.1[#]	Evolution & Ecology B2.1	Evolution & Ecology B3.1
la jo	Plant Science B1.2 [#]	Plant Science B2.2	Plant Science B3.2
μ Σ	Biochemistry BC1.1 [##]	Biochemistry BC2.1	Biochemistry BC3.1
Options for Chemistry major with Pharmacology	Maths for life sciences 1	Maths for life sciences 2	Maths for life sciences 3
for Ch	Education 1	Education 2	Education 3
suo	Management 1	Management 2	Management 3
Optio	Psychology 1	- Psychology 2	Psychology 3

[#] Note: taking double Biology in Year 1 (Ls1.1 and a # option) allows transfer to a collation naming Biology (## Biochemistry) in Year 2 with Biology (Biochemistry) as the major or minor. i.e. Biology or Pharmacology with Chemistry

Year One	Year Two	Year Three	Final Year
			MSci DoS Approved Units

CHEMISTRY MAJOR WITH PHARMACOLOGY BSc

	Year One	Year Two	Year Three
~	Cł	noose two streams from the opti	ons
colog	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1
Jarma	Inorganic chemistry C1.2 Physical chemistry C1.3	Inorganic chemistry C2.2 Physical chemistry C2.3	Inorganic chemistry C3.2 Physical chemistry C3.3
Chemistry major with Pharmacology	Physiology Pc1.1 Mol. & cell biology Ls1.1 Each year choos	Pharmacology Pc2.1 Pharmacology Pc2.2	Chemistry project Pharmacology Pc3.1 Pharmacology Pc3.2 May drop a Pc for option below

OPTIONS

gy	Year One	Year Two	Year Three
acolo		Molecular biology B2.3	Molecular biology B3.3
arm		Genomics B2.4	Genomics B3.4
L P		Development/Neuroscience B2.5	Development/Neuroscience B3.5
r with	Evolution & Ecology B1.1[#]	Evolution & Ecology B2.1	Evolution & Ecology B3.1
lajo	Plant Science B1.2 [#]	Plant Science B2.2	Plant Science B3.2
2	Biochemistry BC1.1 [##]	Biochemistry BC2.1	Biochemistry BC3.1
emist	Maths for life sciences 1	Maths for life sciences 2	Maths for life sciences 3
Options for Chemistry major with Pharmacology	Education 1	Education 2	Education 3
ns f	Management 1	Management 2	Management 3
Optio	Psychology 1	- Psychology 2	Psychology 3

[#] Note: taking double Biology in Year 1 (Ls1.1 and a # option) allows transfer to a collation naming Biology (## Biochemistry) in Year 2 with Biology (Biochemistry) as the major or minor. i.e. Biology or Pharmacology with Chemistry

Year One	Year Two	Year Three
		BSc DoS Approved Units

CHEMISTRY MAJOR WITH PHYSICS MSci

	Year One	Year Two	Year Three	Final Year	
	Choose two ongoing streams from the options				
	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1	Organic chemistry C4.1	
cs	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2	Inorganic chemistry C4.2	
hys	Physical chemistry C1.3	Physical chemistry C2.3	Physical chemistry C3.3	Physical chemistry C4.3	
E F				Chemistry project C4.5	
or ≪				or	
Chemistry major with Physics				Chem project C4.4 (24 cr) and drop P4.2	
stry	Mandatory				
emi			Laboratory chemistry C3.4		
с ^ч	Physics P1.1	Physics P2.1	Physics P3.1	Physics P4.1	
	Physics P1.2	Physics P2.2	Physics P3.2	Physics P4.2	
	Maths for physics M1.1	Maths for physics M2.1			

CHEMISTRY MAJOR WITH PHYSICS BSc

	Year One	Year Two	Year Three	
S	Cł	noose two streams from the option	ons	
ysic	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1	
Ph	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2	
vith	Physical chemistry C1.3	Physical chemistry C2.3	Physical chemistry C3.3	
or v	Mandatory			
Chemistry major with Physics			Chemistry project	
try	Physics P1.1	Physics P2.1	Physics P3.1	
mis	Physics P1.2	Physics P2.2	Physics P3.2	
Che	Maths for physics M1.1	Maths for physics M2.1	May drop one block physics and take Maths for physics M3.1	

Options

There are no optional streams on these courses. There are options in the later physics blocks.

DIRECTOR OF STUDIES APPROVED UNITS

Year One	Year Two	Year Three [€]	Final Year
		BSc DoS Approved Units	MSci DoS Approved Units

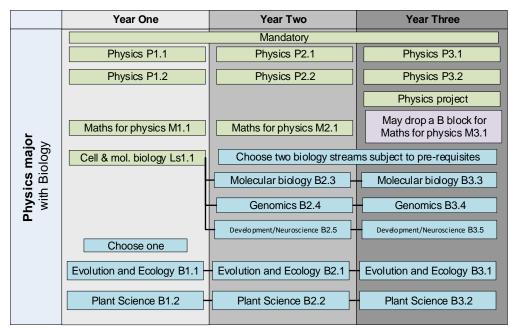
[€] Not available on the MSci

PHYSICS

Year One Year Two Year Three Final Year Mandatory Physics P1.1 Physics P2.1 Physics P3.1 Physics P4.1 Physics P1.2 Physics P2.2 Physics P3.2 Physics P4.2 Physics P3.3 Physics project P4.3 Physics major with Biology Maths for physics M1.1 Maths for physics M2.1 Cell & mol. biology Ls1.1 Each year choose two biology streams subject to pre-requisites Molecular biology B3.3 Molecular biology B2.3 Molecular biology B4.3 Genomics B2.4 Genomics B3.4 Genomics B4.4 Development/Neuroscience B2.5 Development/Neuroscience B3.5 Development/Neuroscience B4.5 Choose one Evolution & Ecology B1.1 Evolution & Ecology B2.1 Evolution & Ecology B3.1 Evolution & Ecology B4.1 Plant Science B1.2 Plant Science B2.2 Plant Science B3.2 Plant Science B4.2

PHYSICS MAJOR WITH BIOLOGY MSci

PHYSICS MAJOR WITH BIOLOGY BSc



Options: There are no optional streams in these choices.

DIRECTOR OF STUDIES APPROVED UNITS

Year One	Year Two	Year Three [€]	Final Year
		BSc DoS Approved Units	MSci DoS Approved Units

[€] Not available on the MSci

PHYSICS MAJOR WITH CHEMISTRY MSci

	Year One	Year Two	Year Three	Final Year		
		Mandatory				
	Physics P1.1	Physics P2.1	Physics P3.1	Physics P4.1		
. .	Physics P1.2	Physics P2.2	Physics P3.2	Physics P4.2		
sics Major Chemistry	Maths for physics M1.1	Maths for physics M2.1	Physics P3.3	Physics project P4.3		
Physics with Che		Choose two streams from the options				
	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1	Organic chemistry C4.1		
	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2	Inorganic chemistry C4.2		
	Physical chemistry C1.3	Physical chemistry C2.3	Physical chemistry C3.3	Physical chemistry C4.3		

PHYSICS MAJOR WITH CHEMISTRY BSc

	Year One	Year Two	Year Three
		Mandatory	
	Physics P1.1	Physics P2.1	Physics P3.1
	Physics P1.2	Physics P2.2	Physics P3.2
tr jo r			Physics project
Physics Major with Chemistry	Maths for physics M1.1	Maths for physics M2.1	May drop one block chemistry and take Maths for physics M3.1
≥ hy	Cł	noose two streams from the optic	ons
	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1
	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2
	Physical chemistry C1.3	Physical chemistry C2.3	Physical chemistry C3.3

OPTIONS

There are no optional streams in these choices.

DIRECTOR OF STUDIES APPROVED UNITS

Year One	Year Two	Year Three [€]	Final Year
		BSc DoS Approved Units	MSci DoS Approved Units

[€] Not available on the MSci

PHYSICS MAJOR WITH ENVIRONMENTAL SCIENCE BSc [NEW]

Note: This collation can be transferred to after the first year in the collations of Chemistry with Physics or Physics with Chemistry.

	Year One	Year Two	Year Three
		Mandatory	
Science	Physics P1.1	Physics P2.1	Physics P3.1
Scie	Physics P1.2	Physics P2.2	Physics P3.2
ntal	Maths for physics M1.1	Maths for physics M2.1	Physics project
Imei		Energy/Sustain Env2.1	State of Planet Env3.1
viroi			Water Cycle Env3.2
Physics with Environmental	Choose two streams	Continue one stream	
s ×	Organic chemistry C1.1	Organic chemistry C2.1	May dran and Env block
sic	Inorganic chemistry C1.2	Inorganic chemistry C2.2	May drop one Env block and continue chemistry
hy	Physical chemistry C1.3	Physical chemistry C2.3	
<u>م</u>			

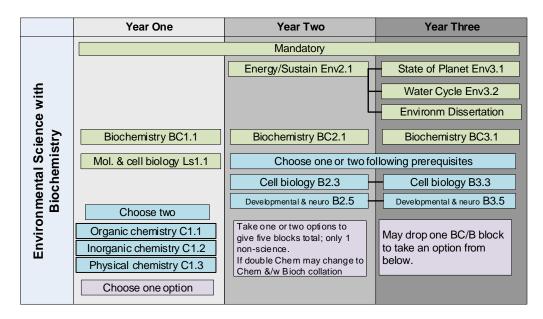
You may transfer from this collation to Chemistry with Physics or Physics with Chemistry in year 2.

	Year One	Year Two	Year Three
			BSc DoS Approved Units

ENVIRONMENTAL SCIENCE

Note: The first three collations combine Environmental Science, Chemistry and a Life Science. They all allow you to move to a collation with Chemistry as the major or minor in the second year.

ENVIRONMENTAL SCIENCE MAJOR WITH BIOCHEMISTRY BSc



Options

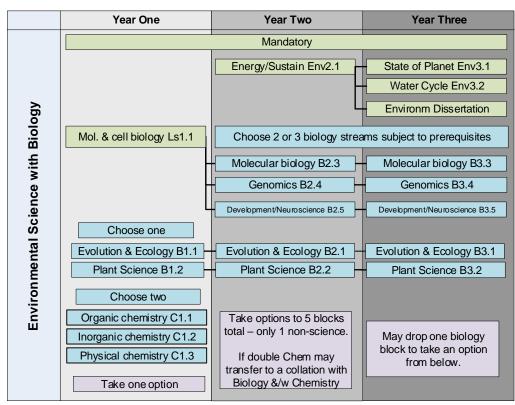
	Year One	Year Two	Year Three
ntal /	Physiology Pc1.1[@]	Pharmacology [@]	
ronmenta ce emistry		Organic chemistry C2.1	Organic chemistry C3.1
ron ce emi		Inorganic chemistry C2.2	Inorganic chemistry C3.2
Envir cien o ioche		Physical chemistry C2.3	Physical chemistry C3.3
<u></u> о́ п	Maths for life sciences 1	Maths for life sciences 2	Maths for life sciences 3
oice; with	Education 1	Education 2	Education 3
Choices with	Management 1	Management 2	Management 3
	Psychology 1	Psychology 2	Psychology 3

[@] You may take single or double pharmacology in year 2 by transferring to a collation with pharmacology as a major or minor. Pharmacology is a forbidden combination with Environmental Studies.

You may move to a collation with a Chemistry major/minor and Biochemistry or Environmental Science in year 2.

Year One	Year Two	Year Three
		BSc DoS Approved Units

ENVIRONMENTAL SCIENCE MAJOR WITH BIOLOGY BSc



OPTIONS

	Year One	Year Two	Year Three
Environ mental e with Biology	Physiology Pc1.1[@]	Pharmacology [@]	
log		Organic chemistry C2.1	Organic chemistry C3.1
on ment Biology		Inorganic chemistry C2.2	Inorganic chemistry C3.2
/ith		Physical chemistry C2.3	Physical chemistry C3.3
	Maths for life sciences 1	Maths for life sciences 2	Maths for life sciences 3
Choices: E Science	Education 1	Education 2	Education 3
S	Management 1	Management 2	Management 3
Ŭ	Psychology 1	Psychology 2	Psychology 3

[@] You may take single or double pharmacology in year 2 by transferring to a collation with pharmacology as a major or minor. Pharmacology is a forbidden combination with Environmental Studies

You may move to a collation with a Chemistry major/minor and Biology or Environmental Science in year 2.

Year One	Year Two	Year Three
		BSc DoS Approved Units

ENVIRONMENTAL SCIENCE MAJOR WITH CHEMISTRY BSc

	Year One	Year Two	Year Three
		Mandatory	
stry		Energy/Sustain Env2.1	State of Planet Env3.1
emis			Water Cycle Env3.2
Ċ		L	Environm Dissertation
e with	Mol. & Cell biology Ls1.1		
ance and	Choose 2 streams from the options		
Scie	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1
tal	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2
en	Physical chemistry C1.3	Physical chemistry C2.3	Physical chemistry C3.3
Environmental Science with Chemistry	Choose 1 or 2 options for Year 1 to pair with Ls1.1	Take 2 options following	May drop one chemistry to
Ē	Choose 1 or 0 options to take number of blocks to 5	pre-requisites	take option below

OPTIONS

Colour of choice boxes indicate available options.

	Year One	Year Two	Year Three
JCe	Physiology Pc1.1[@]	Pharmacology [@]	
cience		Molecular biology B2.3	Molecular biology B3.3
S		Genomics B2.4	Genomics B3.4
: Environmental with Chemistry		Development/Neuroscience B2.5	Development/Neuroscience B3.5
me	Evolution & Ecology B1.1[#]	Evolution & Ecology B2.1	Evolution & Ecology B3.1
ron Che	Plant Science B1.2 [#]	Plant Science B2.2	Plant Science B3.2
nvi th (Biochemistry BC1.1 [#]	Biochemistry BC2.1	Biochemistry BC3.1
es: E wi	Maths for life sciences 1	Maths for life sciences 2	Maths for life sciences 2
Choices:	Education 1	Education 2	Education 2
ch	Management 1	Management 2	Management 2
	Psychology 1	Psychology 2	Psychology 2

Note: You cannot take B1.1 or B1.2 with BC1.1. You cannot take both BC2.1 and B2.4 in Year 2.

[@]You may swap to collation with Pharmacology as major or minor in second year. Pharmacology is a forbidden combination with Environmental Studies

[#] Note: taking double Biology in Year 1 (Ls1.1 and a # option) allows transfer to a collation naming Biology in Year 2 with Biology as the major or minor. i.e. Biology or Pharmacology with Chemistry

Year One	Year Two	Year Three
		BSc DoS Approved Units

[NEW] ENVIRONMENTAL SCIENCE MAJOR WITH PHYSICS BSc

Note: This collation can be transferred to after the first year in the collations of Chemistry with Physics or Physics with Chemistry.

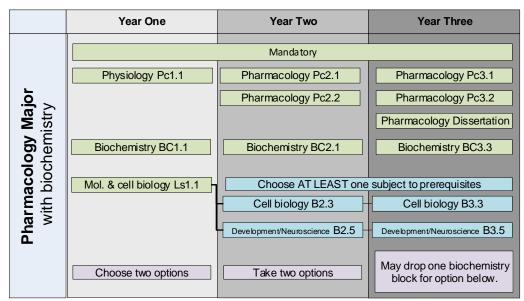
	Year One	Year Two	Year Three
		Mandatory	
s		Energy/Sustain Env2.1	State of Planet Env3.1
Physics		-	Water Cycle Env3.2
		L	Environm Dissertation
with	Physics P1.1	Physics P2.1	Physics P3.1
ence	Physics P1.2	Physics P2.2	Physics P3.2
ntal Science	Maths for physics M1.1	Maths for physics M2.1	
Environmental	Choose two streams	Continue one stream	
iro	Organic chemistry C1.1	Organic chemistry C2.1	
Env	Inorganic chemistry C1.2	Inorganic chemistry C2.2	May drop one block physics to take continue chemistry
_	Physical chemistry C1.3	Physical chemistry C2.3	

You may transfer from this collation to Chemistry with Physics or Physics with Chemistry in year 2.

Year One	Year Two	Year Three
		BSc DoS Approved Units

PHARMACOLOGY

PHARMACOLOGY MAJOR WITH BIOCHEMISTRY BSc



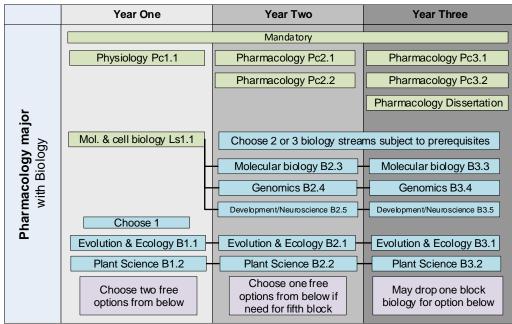
OPTIONS

	Year One	Year Two	Year Three
5	Organic chemistry C1.1 [*]	Organic chemistry C2.1	Organic chemistry C3.1
lajo try	Inorganic chemistry C1.2[*]	Inorganic chemistry C2.2	Inorganic chemistry C3.2
y N nis	Physical chemistry C1.3 [*]	Physical chemistry C2.3	Physical chemistry C3.3
armacology Major with biochemistry	Maths for life sciences 1	Maths for life sciences 2	Maths for life sciences 3
bio			
/ith	Education 1	Education 2	Education 3
Phai v	Management 1	Management 2	Management 3
	Psychology 1	- Psychology 2	Psychology 3

[*] Note: taking double chemistry in Year 1 allows transfer to a collation naming Chemistry in Year 2 with chemistry as the major or minor. i.e. Biochemistry or Pharmacology with Chemistry.

Year One	Year Two	Year Three
		BSc DoS Approved Units

PHARMACOLOGY MAJOR WITH BIOLOGY BSc



OPTIONS

	Year One	Year Two	Year Three
Pharmacology major with Biology	Organic chemistry C1.1 [*]	Organic chemistry C2.1	Organic chemistry C3.1
or wi	Inorganic chemistry C1.2 [*]	Inorganic chemistry C2.2	Inorganic chemistry C3.2
/ maj	Physical chemistry C1.3 [*]	Physical chemistry C2.3	Physical chemistry C3.3
acology	Maths for life sciences 1	Maths for life sciences 2	Maths for life sciences 3
harm	Education 1	Education 2	Education 3
	Management 1	Management 2	Management 3
Choices:	Psychology 1	Psychology 2	Psychology 3
0			

[*] Note: taking double chemistry in Year 1 allows transfer to a collation naming Chemistry in Year 2 with chemistry as the major or minor. i.e. Biology or Pharmacology with Chemistry

Year One	Year Two	Year Three
		BSc DoS Approved Units

PHARMACOLOGY MAJOR WITH CHEMISTRY BSc

	Year One	Year Two	Year Three
~		Mandatory	
nistr	Physiology Pc1.1	Pharmacology Pc2.1	Pharmacology Pc3.1
then		Pharmacology Pc2.2	Pharmacology Pc3.2
ith C			Pharmacology Dissertation
Pharmacology major with Chemistry	Mol. & cell biology Ls1.1		
m	Choose two streams from the chemistry options		
ogy	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1
col	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2
ma	Physical chemistry C1.3	Physical chemistry C2.3	Physical chemistry C3.3
Phar	Each year choo	se one free option	May drop one chemistry for option below

OPTIONS

	Year One	Year Two	Year Three
÷E		Molecular biology B2.3	Molecular biology B3.3
or w		Development/Neuroscience B2.5	Development/Neuroscience B3.5
majo	Evolution & Ecology B1.1[#]	Evolution and Ecology B2.1	Evolution and Ecology B3.1
Pharmacology major with Chemistry	Plant Science B1.2 [#]	Plant Science B2.2	Plant Science B3.2
iarmacol e Chemistry	Biochemistry BC1.1 [#]	Biochemistry BC2.1	Biochemistry BC3.1
arma hem			
	Maths for life sciences 1	Maths for life sciences 2	Maths for life sciences 3
ns for	Education 1	Education 2	Education 3
Options	Management 1	Management 2	Management 3
ō	Psychology 1	Psychology 2	Psychology 3

[#] Note: taking double Biology in Year 1 (Ls1.1 and a # option) allows transfer to a collation naming Biology in Year 2 with Biology as the major or minor. i.e. Biology or Pharmacology with Chemistry

Year One	Year Two	Year Three
		BSc DoS Approved Units

Examples of easy modifications

As shown above, in the final year of a BSc degree, a block of the minor science can be replaced with a block from the non-science options. Education or Management can always be selected for this block. Psychology can only be selected if it has already been studied in years 1 and 2.

	Year One	Year Two	Year Three	
	Two streams selected			
	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1	
r ⊵	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2	
Majo mist	Mandatory			
		-		
istr iocl			Chemistry project	
Chemistry Major with Biochemistry	Biochemistry BC1.1	Biochemistry BC2.1	Biochemistry BC3.1	
ວ≥	Cell & mol. biology Ls1.1	One stream selected		
	l	Molecular biology B2.3	Molecular biology B3.3	
	Maths for life sciences 1	Education 2		

(i) Drop BSc Final Year Minor: "I have decided I want to be a teacher"

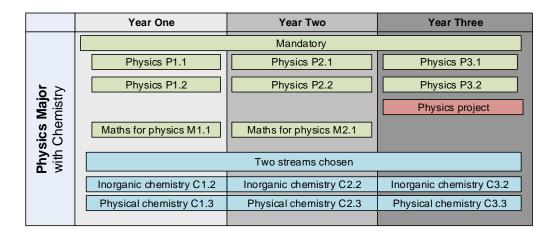
	Year One	Year Two	Year Three	
	Two streams selected			
	Organic chemistry C1.1	Organic chemistry C2.1	Organic chemistry C3.1	
try or	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2	
Ma j mis	Mandatory			
t ry			Chemistry project	
Chemistry Major with Biochemistry	Biochemistry BC1.1	Biochemistry BC2.1	Biochemistry BC3.1	
SP	Cell & mol. biology Ls1.1	One subject selected		
		Molecular biology B2.3		
	Maths for life sciences 1	Education 2	Education 3	

Education can replace either Biology or Biochemistry in the final year as they are both minor subjects – only in the BSc.

(ii) Changing Major: "I just <u>love</u> physics after all"

This is quite a common dilemma for double-double choices, and it is a straightforward swap. You can change your declared major and minor when progressing to a new year of study. The courses below, with the same chemistry options selected, are identical in years 1 and 2

	Year One	Year Two	Year Three	
	Two streams chosen			
	Inorganic chemistry C1.2	Inorganic chemistry C2.2	Inorganic chemistry C3.2	
ajor	Physical chemistry C1.3	Physical chemistry C2.3	Physical chemistry C3.3	
sic:	Mandatory			
Chemistry major with Physics			Chemistry project	
with	Physics P1.1	Physics P2.1	Physics P3.1	
, ch	Physics P1.2	Physics P2.2	Physics P3.2	
	Maths for physics M1.1	Maths for physics M2.1		



The first year choice below starting in the Biology with Chemistry collation gives the option to major in Biology, Chemistry or Pharmacology in year two. It also has six different combinations of biology blocks possible within double biology. So, after choosing the right five blocks for year two, you could now be on the collation of Pharmacology major with Biology, and with Chemistry as the supporting subject.

	Year One	Year Two
Biology major with Chemistry	Cell & mol. biology Ls1.1	Genomics B2.4 Molecular biology B2.3 Development/Neuroscience B2.5
r with	Evolution & Ecology B1.1	Evolution & Ecology B2.1
ajo	Organic chemistry C1.1	Organic chemistry C2.1
E	Inorganic chemistry C1.2	Inorganic chemistry C2.2
Biology	Physiology Pc1.1	Pharmacology Pc2.1 Pharmacology Pc2.2

(iii) Director of Studies Approved Units

Year One	Year Two	Year Three	Final Year
		BSc DoS Approved Units	MSci DoS Approved Units

Not shown fully in these collations are the Director of Studies Approved Units blocks that are normally available in year 3 of the BSc degrees, and year 4 of the MSci degrees. In some MSci collations there is also a year 3 Director of Studies Approved Units block.

These can be taken in place of the blocks named in the collations above, subject to timetabling, and can be built from other units from the Natural Sciences selection, units mixed between the usual block structures or units taken from other courses. These must follow certain technical requirements to preserve the overall validity of the degree to be awarded, you need the pre-requsite knowledge to study them, and selecting them needs approval from the Natural Sciences and the delivering department: hence – Director of Studies Approved Units.