UCD SCIENCE

Stage 1 Guide & Core Module Tables

2024/25

STAGE 1

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MOORE AUDITORIUM

Contents

Science

UCD offers one of the widest choices of science subjects in Ireland, providing access to 26-degree subjects in Biological, Biomedical, Biomolecular Sciences, Chemistry, Earth and Environmental Sciences, Mathematics, Physics, including fully accredited Science, Mathematics and Education degrees.

Table 1 Streams and Degree Subjects within Science

Stream	Degree Subjects
Biological, Biomedical & Biomolecular Sciences Stream	Biochemistry & Molecular Biology
	Cell & Molecular Biology
	Environmental Biology
	Genetics
	Microbiology
	Neuroscience
	Pharmacology
	Physiology
	Plant Biology
	Zoology
Earth & Environmental Sciences Stream	Earth Sciences
	Environmental Biology
Chemistry (includes Medicinal/ Sustainable) Stream	Chemistry
	Chemistry with Environmental & Sustainable Chemistry
	Medicinal Chemistry & Chemical Biology
Mathematics (includes Applied/ Financial/Statistics) Stream	Applied & Computational Mathematics
	Financial Mathematics
	Mathematics
	Statistics
Physics (includes Theoretical/ Astronomy & Space Science) Stream	Physics
	Physics with Astronomy & Space Science
	Theoretical Physics
Science, Mathematics & Education Stream	Applied Mathematics, Mathematics & Education
	Biology, Mathematics & Education
	Chemistry, Mathematics & Education
	Computer Science, Maths. & Education
	Physics, Mathematics & Education
Explore Multiple Streams	Students can select a number of streams in the Explore Multiple Streams option. As with all streams in Stage 1, careful selection of modules will ensure that you keep your options open for Stage 2. The information in Table 2 will guide you when you come to choose your modules for Stage 1.

The course in Stage 1 is divided into 12 modules. Students choose their modules in order to fulfil the requirements of the subjects that they wish to continue with in the degree programme.

Students can either focus on a particular area, but must fulfil the requirements for at least 2 subjects, or choose to cover the core requirements for a wide range of subjects.

Modules required for BSc Degrees within Science

CORE modules

A module that students must do as part of their programme.

Conditional CORE modules

Students must take these modules in Stage 1 of the Science programme if they have not achieved a grade or completed the subject at Leaving Certificate standard, or equivalent.

Programme CORE modules

Are also compulsory, but students can choose to take them in Stage 1 or Stage 2; or in Stage 2 or 3.

Table 2 Modules required for B.Sc. Degrees within Science

Key: For modules marked with a plus symbol (+) Please refer to Table 4 Mathematics requirements table for further required criteria.

Biological, Biomedical & Biomolecular Sciences Stream			
Degree Subjects	**Conditional Core Modules**	**Core Modules**	**Programme Core Modules**
Biochemistry & Molecular Biology **Cell & Molecular Biology** **Environmental Biology** **Genetics** **Microbiology** **Neuroscience** **Pharmacology** **Physiology** **Plant Biology** **Zoology**	*Refer to table 3 on page 7 for further details on these modules* **BIOL00010** Fundamentals of Biology **CHEM00010** Introductory Chemistry **MATH00010** Introduction to Mathematics **PHYC10070** Foundations of Physics (this is a conditional core for Neuroscience and Physiology)	**SCI10010** Scientific Enquiry **BIOL10110** Cell Biology & Genetics **CHEM10050** Basis of Organic & Biol Chem **MATH10290** Linear Algebra for Science + **MATH10310** Calculus for Science + *Please refer to table 4 on page 8 for modules listed with a plus symbol (+)*	At least two of: **BIOL10130** Biology in Action **BIOL10140** Life on Earth **BMOL10030** Biomedical Sciences

Earth & Environmental Sciences Stream			
Degree Subjects	**Conditional Core Modules**	**Core Modules**	**Programme Core Modules**
Environmental Biology *Students who complete the modules for this subject will also be eligible for subjects listed under the Biological, Biomedical and Biomolecular Stream in Stage 2.*	*Refer to table 3 on page 7 for further details on these modules* **BIOL00010** Fundamentals of Biology **CHEM00010** Introductory Chemistry **MATH00010** Introduction to Mathematics **PHYC10070** Foundations of Physics (**PHYC10070** a conditional core for Neuroscience and Physiology)	**SCI10010** Principles of Scientific Enquiry **BIOL10110** Cell Biology & Genetics **CHEM10050** Basis of Organic & Biol Chem **MATH10290** Linear Algebra for Science + **MATH10310** Calculus for Science + *Please refer to table 4 on page 8 for modules listed with a plus symbol (+)*	At least two of: **BIOL10130** Biology in Action **BIOL10140** Life on Earth **BMOL10030** Biomedical Sciences
Earth Sciences	*Refer to table 3 on page 7 for further details on these modules* **MATH00010** Introduction to Mathematics	**SCI10010** Principles of Scientific Enquiry **GEOL10060** Intro to Earth Sciences **MATH10290** Linear Algebra for Science + **MATH10310** Calculus for Science + *Please refer to table 4 on page 8 for modules listed with a plus symbol (+)*	**GEOL10070** Understanding Earth Systems

Chemistry (includes Medicinal/Sustainable) Stream

Degree Subjects	Conditional Core Modules	Core Modules	Programme Core Modules
Chemistry **Chemistry with Environmental and Sustainable Chemistry** **Medicinal Chemistry and Chemical Biology**	*Refer to table 3 on page 7 for further details on these modules* **CHEM00010** Introductory Chemistry **MATH00010** Introduction to Mathematics **BIOL00010** Fundamentals of Biology (conditional core for Medicinal Chemistry)	**SCI10010** Principles of Scientific Enquiry **CHEM10050** Basis of Organic & Biol Chem **MATH10290** Linear Algebra for Science + **MATH10310** Calculus for Science + **BIOL10110** Cell Biology & Genetics (core module for Medicinal Chemistry) *Please refer to table 4 on page 8 for modules listed with a plus symbol (+)*	**CHEM20140** Intro Transition Metal Chem **CHEM20100** Basis of Inorganic Chemistry

Mathematics (includes Applied/Financial/Statistics) Stream

Degree Subjects	Conditional Core Modules	Core Modules	Programme Core Modules
Applied & Computational Mathematics **Mathematics** **Financial Mathematics** **Statistics**	*Refer to table 3 on page 7 for further details on these modules* **ACM10080** Intro to Applied & Comp Math (conditional core for Applied & Computational Mathematics only) **COMP10290** Computation for Scientists	**SCI10010** Principles of Scientific Enquiry **ACM10060** Appl of Differential Equations **MATH10340** Linear Algebra (MPS) **MATH10350** Calculus (MPS) **STAT10060** Statistical Modelling	**MATH10040** Numbers & Functions (required for Mathematics & Financial Maths) **MATH10320** Mathematical Analysis (required for Applied & Computational Mathematics; Financial Math., Mathematics & Statistics) **ECON10720** Microeconomics for Business (required for Financial Maths)

Physics (includes Theoretical/Astronomy & Space Science) Stream

Degree Subjects	Conditional Core Modules	Core Modules	Programme Core Modules
Physics **Physics with Astronomy & Space Science** **Theoretical Physics**	*Refer to table 3 on page 7 for further details on these modules* **ACM10080** Intro to Applied & Comp Math **MATH00010** Introduction to Mathematics **PHYC10070** Foundations of Physics **COMP10290** Computation for Scientists	**SCI10010** Principles of Scientific Enquiry **PHYC10080** Frontiers of Physics **MATH10340** Linear Algebra (MPS) **MATH10350** Calculus (MPS) or **MATH10400** Calculus (Online)	**ACM10060** Appl of Differential Equations **PHYC10050** Astronomy & Space Science **PHYC10250** Thermal Physics and Materials **PHYC20080** Fields, Waves and Light

Science, Mathematics & Education Stream			
Degree Subjects	Conditional Core Modules	Core Modules	Programme Core Modules
Biology, Mathematics & Education	*Refer to table 3 on page 7 for further details on these modules* **BIOL00010** Fundamentals of Biology	**SCI10010** Principles of Scientific Enquiry **BIOL10110** Cell Biology & Genetics **CHEM10050** Basis of Organic & Biol Chem **MATH10290** Linear Algebra for Science + or **MATH10340** Linear Algebra (MPS) + **MATH10410** Maths & Science Education **MATH10350** Calculus (MPS) **STAT10060** Statistical Modelling *Please refer to table 4 on page 8 for modules listed with a plus symbol (+)*	At least two of: **BIOL10130** Biology in Action **BIOL10140** Life on Earth **BMOL10030** Biomedical Sciences **ACM10060** Appl of Differential Equations
Applied Mathematics, Mathematics & Education	*Refer to table 3 on page 7 for further details on these modules* **ACM10080** Intro to Applied & Comp Math **COMP10290** Computation for Scientists	**SCI10010** Principles of Scientific Enquiry **ACM10060** Appl of Differential Equations **MATH10350** Calculus (MPS) **MATH10410** Maths & Science Education **MATH10340** Linear Algebra (MPS) **STAT10060** Statistical Modelling	**MATH10040** Numbers & Functions **MATH10320** Mathematical Analysis
Computer Science, Mathematics & Education	*Refer to table 3 on page 7 for further details on these modules* **COMP10290** Computation for Scientists	**SCI10010** Principles of Scientific Enquiry **ACM10060** Appl of Differential Equations **MATH10350** Calculus (MPS) **MATH10410** Maths & Science Education **MATH10340** Linear Algebra (MPS) **STAT10060** Statistical Modelling **COMP10020** Introduction to Programming II	**MATH10040** Numbers & Functions **MATH10320** Mathematical Analysis

Science, Mathematics & Education Stream			
Degree Subjects	Conditional Core Modules	Core Modules	Programme Core Modules
Chemistry, Mathematics & Education	*Refer to table 3 on page 7 for further details on these modules* **CHEM00010** Introductory Chemistry	**SCI10010** Principles of Scientific Enquiry **CHEM10050** Basis of Organic & Biol Chem **MATH10290** Linear Algebra for Science + or **MATH10340** Linear Algebra (MPS) + **MATH10350** Calculus (MPS) **MATH10410** Maths & Science Education **STAT10060** Statistical Modelling *Please refer to table 4 on page 8 for modules listed with a plus symbol (+)*	**ACM10060** Appl of Differential Equations **CHEM20140** Intro Transition Metal Chem **CHEM20100** Basis of Inorganic Chemistry
Physics, Mathematics & Education	*Refer to table 3 on page 7 for further details on these modules* **ACM10080** Intro to Applied & Comp Math **PHYC10070** Foundations of Physics **COMP10290** Computation for Scientists	**SCI10010** Principles of Scientific Enquiry **PHYC10080** Frontiers of Physics **MATH10350** Calculus (MPS) **MATH10340** Linear Algebra (MPS) **MATH10410** Maths & Science Education **ACM10060** Appl of Differential Equations **STAT10060** Statistical Modelling	**MATH10320** Mathematical Analysis **PHYC10250** Thermal Physics and Materials **PHYC20080** Fields, Waves and Light

Explore Multiple Streams

The "Explore Multiple Streams" option is for students who are interested in degrees in different streams. For example, a student may be interested in Genetics and Chemistry. As Genetics is in the Biological, Biomedical & Biomolecular Sciences stream and Chemistry is in the Chemistry stream, students interested in these subjects can choose Explore Multiple Streams.

Scan the QR core and select the 'View All Modules' section of this webpage of this webpage for further information on modules and streams.

Conditional Core Modules

Some students may not have a sufficiently strong background in a subject and may be required to take an introductory module in the subject before they can take more advanced modules. Table 3 below outlines the specific prior learning requirements associated with these modules.

Table 3: Prior Learning requirements

Relevant Leaving Certificate Subject	Requirement (Conditional Core Module)	Rule
Applied Mathematics	**ACM10080** Applied Mathematics, Methods & Applications	For the degrees where ACM10080 appears as a Conditional Core Module in Table 1, students must take ACM10080 or have attained a minimum grade H5 in Leaving Certificate Higher Applied Mathematics (A Level; Grade C).
Biology	**BIOL00010** Fundamentals of Biology	To take BIOL10110, BIOL10130 and BIOL10140 students must have taken BIOL00010 or have attained a minimum grade O2 or H6 in Leaving Certificate Biology (A Level; Grade D).
Chemistry	**CHEM00010** Introductory Chemistry	To take CHEM10050, students must have taken CHEM00010 or have attained a minimum grade O1 or H5 in Leaving Certificate Chemistry (A Level; Grade C).
Mathematics	**MATH00010** Introductory Mathematics	Students who did not achieve a minimum grade O1 or H5 in Leaving Certificate Mathematics (GCSE; Grade A*, A Level; Grade C) must take MATH00010 in addition to other required Mathematics modules.
Physics	**PHYC10070** Foundations of Physics **ACM10080** Intro to App & Comp Math	Students who wish to take Physics subjects must have attained a minimum grade of H5 in Higher Leaving Certificate Physics (A Level; Grade C). Otherwise, they must take PHYC10070 in Stage 1. Students who wish to pursue Neuroscience, Physiology or Biology, Mathematics & Education must have undertaken Leaving Certificate Physics or must take PHYC10070 in Stage 1. To take any Physics subjects, students must take ACM10080 or have attained a minimum grade of H5 in Leaving Certificate Higher Applied Mathematics.
Computer Science	**COMP10290** Computation for Scientists	Students who wish to remain eligible for Mathematics or Physics subjects in Stage 2 who did not achieve H5 or higher in Higher Leaving Cert Computer Science (or equivalent) must take COMP10290 in Stage 1.

Mathematics

Students are required to take at least two modules in Mathematics (Linear Algebra and Calculus) during their degree in UCD. Mathematics teaching has been tailored to meet the requirements of different subjects. Mathematics is fundamental to many disciplines of Biology and Chemistry. You should consider studying Mathematics to the level of your ability. If you are unsure, you may sample the Mathematics modules required for the Physics or Mathematical subjects (MPS) (i.e. MATH10340 Linear Algebra (MPS) and MATH10350 Calculus (MPS)). If you find those modules too challenging you may change to Mathematics for the Sciences (i.e. MATH10290 and MATH10310) in the first two weeks of the Autumn Trimester. However, keep in mind that MATH10340 and MATH10350 are required core modules for the Mathematics, Physics and some of the Education based degree subjects. **Keep in mind that MATH10340 and MATH10350 are required core modules for the Mathematics, Physics and some of the Education based degree subjects.**

Students must take one Mathematics module in the Autumn Trimester. If a student is required to do MATH00010, then their Calculus module must be deferred until Stage 2. Students who wish to pursue Physics subjects but who have to take MATH00010 in Autumn, MATH10400 can be taken in the Summer Term to ensure they meet the prior learning requirements for Stage 2 Physics modules. If you are interested in pursuing your studies in Mathematics to a higher level, you should seek academic advice in relation to the mathematics modules you should study.

Table 4: Mathematics Requirements

	Subjects/Areas	**Mathematics Topics**		**Comment** (to substitute Mathematics modules, you must contact the Science Office **www.ucd.ie/askscience**)
		Linear Algebra	Calculus	
1	**Biological Biomedical and Biomolecular Sciences** **Chemistry; Medicinal Chemistry; Environmental and Sustainable Chemistry**	MATH10290	MATH10310	MATH10340 should be taken instead of MATH10290 if students want to keep Mathematical and Physics subjects open. MATH10350 should be taken instead of MATH10310 if students want to keep the Education degrees or Mathematical and Physics Science subjects open.
2	**Earth and Environmental Science**	MATH10290	MATH10310	MATH10340 should be taken instead of MATH10290 if students want to keep Mathematical and Physics Science subjects open. MATH10350 should be taken instead of MATH10310 if students want to keep the Education degrees or Mathematical and Physical Science subjects open.
3	**Mathematics; Financial Mathematics;** **Applied and Computational Mathematics; Statistics**	MATH10340	MATH10350	Students who have not attained at least a H3 in Leaving Certificate Mathematics (or equivalent) are strongly advised to consult with either the School of Physics or the School of Mathematics and Statistics – depending on their main area of interest.
4	**Mathematics, Physics & Education; Applied Mathematics and Education** **Computer Science, Mathematics and Education**	MATH10340	MATH10350	Students who have not attained at least a H3 in Leaving Certificate Mathematics (or equivalent) are strongly advised to consult with either the School of Physics or the School of Mathematics and Statistics – depending on their main area of interest.
5	**Physics; Theoretical Physics; Physics with Astronomy & Space Science**	MATH10340	MATH10350	For students who wish to pursue Physics subjects, MATH10400 can be taken in the Summer Trimester instead of MATH10350 if a student must take MATH00010 in Trimester 1 (Autumn Trimester).
6	**Biology, Mathematics & Education** **Chemistry, Mathematics & Education**	MATH10290	MATH10350	MATH10340 can be taken instead of MATH10290 if students want to keep Mathematical and Physical Science subjects open. MATH10350 also fulfils the requirements for all BBB, CCS and Earth Science subjects (see above).

Core Modules required for Stage 1

Biological, Biomedical & Biomolecular Sciences Stream; Earth & Environmental Sciences Stream and Chemistry Stream

- Conditional core (may need to be taken in Stage 1 depending on LC results)
- Programme core (taken in Stage 1 or 2)
- Core (taken in Stage 1)

Table 5: Core Module Summary by Streams

Module Code	Title	Trimester	Biochemistry & Molecular Biology	Genetics	Microbiology	Neuroscience	Pharmacology	Physiology	Cell and Molecular Biology	Plant Biology	Zoology	Environmental Biology	Earth Sciences	Chemistry	Chem. Envl & Chem	Med Chem & Chem
			Biological, Biomedical & Biomolecular Sciences (BBB) Stream									Earth & Environmental Sciences Stream (EES)		Chemistry Stream		
SCI10010	Scientific Enquiry	Aut	●	●	●	●	●	●	●	●	●	●	●	●	●	●
BIOL10110	Biology-Cell Biology & Genetics	Spr	●	●	●	●	●	●	●	●	●	●				●
CHEM10050	Basis of Organic & Biol Chem	Spr	●	●	●	●	●	●	●	●	●	●		●	●	●
BIOL00010	Fundamentals of Biology	Aut	●	●	●	●	●	●	●	●	●	●				●
CHEM00010	Introductory Chemistry	Aut	●	●	●	●	●	●	●	●	●	●		●	●	●
PHYC10070	Foundations of Physics	Aut				●		●								
BIOL10130	Biology in Action	Aut	B	B	B	B	B	B	B	B	B	B				
BIOL10140	Life on Earth	Aut	B	B	B	B	B	B	B	B	B	B				
BMOL10030	Biomedical Sciences	Spr	B	B	B	B	B	B	B	B	B	B				
GEOL10060	Introduction to Earth Sciences	Aut or Spr											●			
GEOL10070	Understanding Earth Systems	Spr											●			
MATH00010	Introduction to Mathematics	Aut	A	A	A	A	A	A	A	A	A	A	A	A	A	A
MATH10290	Linear Algebra for Science	Spr	C	C	C	C	C	C	C	C	C	C	C	C	C	C
MATH10310	Calculus for Science	Aut	D	D	D	D	D	D	D	D	D	D	D	D	D	D
CHEM20140	Introductory Transition Metal	Spr												●	●	●
CHEM20100	Basis of Inorganic Chemistry	Aut												●	●	●

NOTES:

A Students required to take MATH00010 must defer MATH10310 or MATH10350 until Stage 2.

B Students must take at least 2 of BIOL10130, BIOL10140 or BMOL10030 in either Stage 1 or Stage 2.

C Students required to take MATH10290 can take MATH10340 instead. MATH10340 is required for all Mathematical or Physical Science degrees.

D Students required to take MATH10310 can take MATH10350 instead. MATH10350 is required for all Education, Mathematical or Physical Sciences degrees.

Core Modules required for Stage 1

Mathematics; Physics; Mathematics, Science and Education Streams

- Conditional core (may need to be taken in Stage 1 depending on LC results)
- Programme core (taken in Stage 1 or 2)
- Core (taken in Stage 1)

Table 6: Core Module Summary by Streams

Module Code	Title	Trimest.	Maths stream				Physics Stream			Maths and Education Stream				
			Applied and Computational Mathematics	Financial Mathematics	Mathematics	Statistics	Physics	Astronomy & Space Science	Theoretical Physics	Appl Maths, Maths & Ed.	Bio, Maths, Maths & Ed.	Chem, Maths, & Ed.	CompSci, Maths, & Ed.	Phys, Maths & Ed.
SCI10010	Scientific Enquiry	Aut	●	●	●	●	●	●	●	●	●	●	●	●
BIOL10110	Biology-Cell Biology & Genetics	Spr									●			
CHEM10050	Basis of Organic & Biol Chem	Spr									●	●		
BIOL00010	Fundamentals of Biology	Aut									●			
CHEM00010	Introductory Chemistry	Aut										●		
PHYC10070	Foundations of Physics	Aut					●	●	●					●
BIOL10130	Biology in Action	Aut									B			
BIOL10140	Life on Earth	Aut									B			
BMOL10030	Biomedical Sciences	Spr									B			
MATH00010	Introduction to Mathematics	Aut					A D	A D	A D					
CHEM20140	Introductory Transition Metal Chem	Spr										●		
CHEM20100	Basis of Inorganic Chemistry	Aut										●		
ACM10080	Intro to Applied & Comp Math	Aut	●				●	●	●	●				●
ACM10060	Appl of Differential Equations	Spr	●	●	●	●	●	●	●	●	C	C	●	●
MATH10290	Linear Algebra for Science	Spr									●	●		
MATH10340	Linear Algebra (MPS)	Spr	●	●	●	●	●	●	●	●			●	●
MATH10350	Calculus (MPS)	Aut	●	●	●	●	●	●	●	●	●	●	●	●
STAT10060	Statistical Modelling	Spr	●	●	●	●				●	●	●	●	●
MATH10040	Numbers & Functions	Aut		●	●					●			●	
MATH10320	Mathematical Analysis	Spr	●	●	●	●				●			●	●
ECON10720	Microeconomics for Business	Spr		●										
PHYC10080	Frontiers of Physics	Spr					●	●	●					●
PHYC10050	Astronomy & Space Science	Aut					●	●	●					
PHYC10250	Thermal Physics and Materials	Aut					●	●	●					●
PHYC20080	Fields, Waves and Light	Spr					●	●	●					●
MATH10410	Maths & Science Education	Spr								●	●	●	●	●
COMP10020	Intro to Programming II	Spr											●	
COMP10290	Computation for Scientists	Aut	●	●	●	●	●	●	●	●			●	●

NOTES:

A Students required to take MATH00010 must defer MATH10310 or MATH10350 until Stage 2.

B Students must take at least two of BIOL10130, BIOL10140 or BMOL10030 in either Stage 1 or Stage 2.

C These students should take either ACM10060 in Stage 1 or ACM10100 in Stage 2.

D Students who wish to pursue Physical Sciences and who are required to take MATH00010 MUST achieve at least an A- and take MATH10400 in the Summer Trimester as a substitute for MATH10350.

Top Tips

- Students are required to study **twelve modules in a year** – it is recommended that you try to balance your workload as evenly as possible across the year, e.g. study six modules in the Autumn Trimester and six modules in the Spring Trimester. The maximum number permitted in a trimester is eight
- Eleven of your Stage 1 modules must be from within Science. As well as core modules, there are modules which students can choose from a selection offered in their programme (**Option Modules)**.
  You may take one non-science elective module in Stage 1 in the Spring Trimester. **Elective module** are additional to the programme requirements and give students the chance to explore learning outside of their degree programme or choose further modules from the range of subjects in science. You are advised to consider your choice of elective module carefully.
- The **wide variety of science modules** available in Stage 1, allows you to sample and experience a number of subjects, while also studying the core modules required for your discipline. **The choices you make in first year will have a bearing on your final degree subject(s).** Make sure that you meet the core (compulsory) requirements for your subjects of choice and consider taking Programme Cores **(Table 2)** to reduce restrictions on your Stage 2 choices.
- The Level 0 and Level 1 modules required for entry to the degrees in the various subject areas are listed in Table 2.
- Laboratory and/or tutorial times for Science modules, where required, will be allocated at the start of term after you register online to your preferred area and your optional Science modules. Once the allocation to practicals and tutorials has been made, you will be able to see and print your individual timetable.
- **Attendance**
  Lack of attendance at lectures, has been identified in several studies as a significant risk factor for having below average scores in Science courses. Students who attend >75% of lectures generally achieve higher grades.

Later Stages of the Degree Programme

In Stage 2, students must cover the requirements for a minimum of 2 or 3 subjects. Due to timetable and workload constraints not all combinations of subjects are possible in Stage 2. The choice of Stage 2 subjects that can be combined depends on the number of core modules shared between those subjects and the extent to which other requirements have been met in Stage 1.

In Stage 3 and Stage 4, students study one of their Stage 2 subjects to degree level and this subject is their degree major. The selection of degree major may be competitive. In the past few years, for example, Pharmacology, Physiology and Neuroscience, were competitive.


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