

UCD SCIENCE

Pre-stage 2 advisory
Information for Stage 1 students



Associate Professor Tara McMorrow

Associate Dean of Science asdean.science@ucd.ie



University College Dublin
Ireland's Global University



Science Pre-Stage 2 Advisory

Information for students in
Stage 1

Assoc. Prof. Tara McMorrow
(asdean.science@ucd.ie)

DN200 SCIENCE

Biological, Biomedical and Biomolecular Science (BBB)

- Biochemistry & Molecular Biology
- Cell & Molecular Biology
- Environmental Biology
- Genetics
- Microbiology
- Neuroscience
- Pharmacology
- Physiology
- Plant Biology
- Zoology
- Biology, Mathematics & Education

Chemistry & Chemical Sciences (CCS)

- Chemistry
- Chemistry with Environmental & Sustainable Chemistry
- Chemistry, Mathematics & Education
- Medicinal Chemistry & Chemical Biology

Mathematical, Physical and Geological Sciences (MPG)

- Applied & Computational Mathematics
- Financial Mathematics
- Mathematics
- Statistics
- Physics
- Physics with Astronomy & Space Science
- Theoretical Physics
- Applied Mathematics, Mathematics & Education
- Physics & Mathematics & Education
- Computer Science, Mathematics & Education
- Geology



Progressing to Stage 2

- You must have **60 credits** to complete Stage 1
- **Attend** lectures, tutorials, labs.
- Submit your assignments.
- **Talk** to lecturers, science office staff etc.

- It may be possible to progress to **Stage 2** with TWO fails (i.e. 50 credits) **BUT**
 - The Stage 2 timetable **MUST** be able to accommodate the Stage 1 modules that you are repeating (lectures/practicals/tutorials). Your repeating modules take precedence.
 - Maximum workload = 40 credits per trimester (including repeats and resits)

Stage 2 Choices

- In Stage 2, you will take 10 science modules & 2 electives (*can also be science modules*)

<https://www.ucd.ie/science/t4media/dn200-stage1-stage2-core-modules.pdf>

For Stage 2, you **MUST**

- Select at least 2 of the 27 subject
- *If two are Pharmacology and Neuroscience, you must select a 3rd subject*
- *If three are Pharmacology, Neuroscience and Physiology, you must select a 4th subject!*
- Some Stage 2 students are covering 6 subjects, however a maximum of 3 is recommended due to workload requirements
- Can combine some subjects across streams if timetables allow it (e.g. Pharmacology & Medicinal Chemistry; Geology & Zoology; Geology & Env. Biology; Physics & Chemistry)

Core Modules required for Stage 1 Biological, Biomedical & Biomolecular Sciences Stream; Earth & Environmental Sciences Stream and Chemistry Stream in DN200

- Conditional core (may need to be taken in Stage 1 depending on LC results)
- Core (taken in Stage 1) Programme core (taken in Stage 1 or 2)
- Students can take either module to progress to Stage 2 GEOL

Module Code	Title	Trimester	BBB Stream									EES		Chemistry Stream			
			Biochem	Gene	Micro	Neuro	Pharm	Physiol	CELB	Plant	Zool	Env. Bio.	Geol.	Chem.	Chem, Biophys.	Chem. Envl & Chem	Med Chem & Chem
SCI10010	Scientific Enquiry	Aut	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
BIOL10110	Biology-Cell Biology&Genetics	Spr	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
CHEM10050	Basis of Organic & Biol Chem	Spr	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
BIOL00010	Fundamentals of Biology	Aut	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
CHEM00010	Introductory Chemistry	Aut	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
PHYC10070	Foundations of Physics	Aut				Black		Black									
BIOL10130 ^B	Biology in Action	Aut	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange
BIOL10140 ^B	Life on Earth	Aut	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange
BMOL10030 ^B	Biomedical Sciences	Spr	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange
GEOL10020	Earth Science and Materials	Spr											Blue				
GEOL10060	Introduction to Earth Sciences	Aut or Spr											Blue				
MATH00010 ^A	Introduction to Mathematics	Aut	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
MATH10290 ^C	Linear Algebra for Science	Spr	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
MATH10310 ^D	Calculus for Science	Aut	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
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. ^D Students required to take MATH10310 can take MATH10350 instead

Note I: Depending on your LC subjects/grades, you may need to take the **Black** modules.

Note II: Make sure that you are registered to the **Green** modules.

Note: The **Orange** modules can be taken in stage 1 or 2

CHEM20100 can be taken in stage 2

CHEM10040 alternative

**CHEM20090 can be replaced by CHEM20080 and CHEM20100 in stage 2*



Core modules required for Stage 1 Mathematics; Physics; Mathematics, Science and Education Streams in DN200

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

Module Code	Title	Trimester	Maths stream				Physics Stream			Maths and Education Stream				
			ACM	Fin Maths	Maths	Stats	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 ^B	Biology in Action	Aut												
BIOL10140 ^B	Life on Earth	Aut												
BMOL10030 ^B	Biomedical Sciences	Spr												
MATH00010 ^{A&D}	Introduction to Mathematics	Aut												
CHEM20140	Introductory Transition Metal	Spr												
CHEM20100	Basis of Inorganic Chemistry	Aut												
ACM10080	Intro to Applied & Comp Math	Aut												
ACM10060 ^C	Appl of Differential Equations	Spr												
MATH10340	Linear Algebra 1 (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	Spr												
PHYC20080	Fields, Waves and Light	Aut												
MATH10410	Maths & Science Education	Spr												
COMP10020	Introduction to Programming II	Spr												
COMP10290	Computation for Scientists	Aut												
COMP10040	Intro to Comp Architecture	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 Students should also take either ACM10060 in Stage 1 or if not taken, take 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.

Note I: Depending on your LC subjects/grades, you may need to take the **Black** modules.

Note II: Make sure that you are registered to the **Green** modules.

Note III: The **Orange** modules can be taken in stage 1 or 2

Note IV: Students who wish to pursue statistics or financial maths in second year should **NOT** take STAT10010 in Autumn (*Option Module List*)



Decisions – When and How ?

- **Decide** on your Stage 2 subjects

View videos on degree subjects on the UCD Science YouTube Channel:

https://www.youtube.com/channel/UCZSA5-BKqTHa8Tzf_EQGfuQ

- **Registration-** you will receive an email from Registry (July/August) with details on how to do this. Check your emails.
- **Complete** your Stage 2 SUBJECT (July/August) and MODULE choices (August)
 - Students are required to register to 50 programme credits and can choose 10 credits from electives or programme options

Further information is available on the College of Science website:

<https://www.ucd.ie/science/study/currentundergraduatesciencestudents/stage2subjectselectionfaqs/>

Looking further ahead...

- You will select your degree major in August of stage 3. Assignment of degree majors for Stage 3 **may be competitive**
- In current and recent academic years, > 99% of students got their first choice of degree major; only Pharmacology has been oversubscribed
- **In Stage 3**, in order to enter Stage 4, you must obtain a **GPA of at least 2.48**
 - **And have no outstanding Stage 1 or 2 modules to pass**
- Your **final degree classification** is based 70% on your final year and 30% on your penultimate year
 - 240 credit four year degree = 70 : 30, stage 4 : stage 3
 - 180 credit three year degree = 70 : 30, stage 3 : stage 2

Other things to think about....

- **Professional Placements**
- Internships www.ucd.ie/science/careers/internships/students
 - Counts for credit for Stage 3 or Stage 4 in some subjects
- Contact scienceinternships@ucd.ie for further information
- **Outbound Exchanges** (*need 3.0 GPA in stage 2*)
 - <https://www.ucd.ie/global/learningabroad/exchanges/>
 - <http://www.ucd.ie/science/study/currentundergraduatesciences/tudents/erasmusandnoneuexchange/>
 - Talk to Subject Head as requires school approval
- **UCD Career Development Centre** : <https://www.ucd.ie/careers/>

Be Positive 😊



- ***Stage 1 is always very challenging***
- Get advice
- Please do talk to us
- The science office is open from 10-12am and 2-4pm Monday to Friday or you can submit your query online
- <http://www.ucd.ie/science/contact/askscience/>
- Student advisers: aine.murphy@ucd.ie

**Good luck in the rest of the
Spring trimester**

