



Welcome to UCD Science

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www.ucd.ie/science

UCD SCIENCE





Useful Information Guides

- UCD Science Student Handbook
- UCD Science Stage 1 Guide
- UCD Science Stage 1 and Stage 2 Core Modules

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

- UCD New Students website

<https://www.ucd.ie/newstudents/>



Orientation



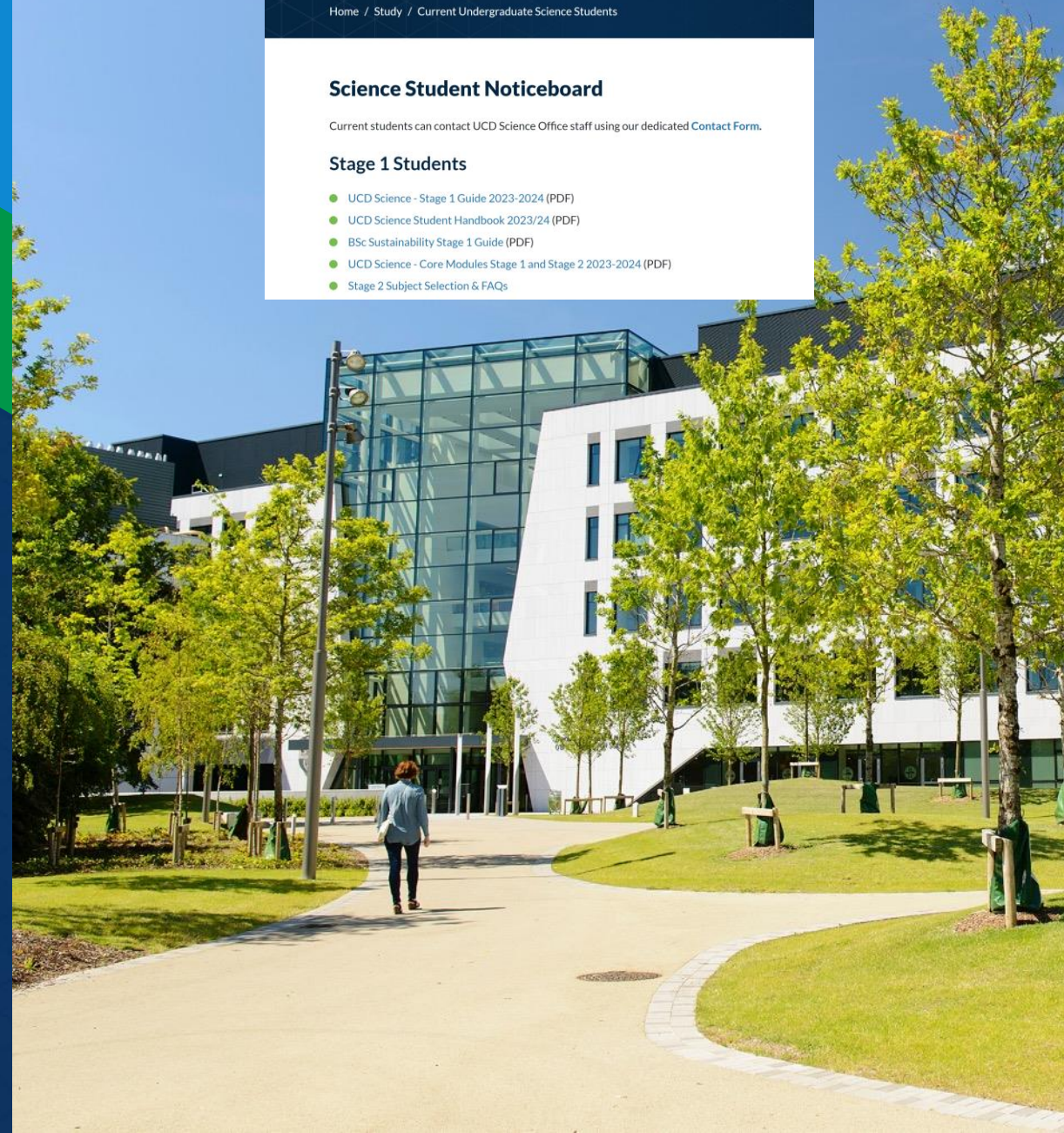
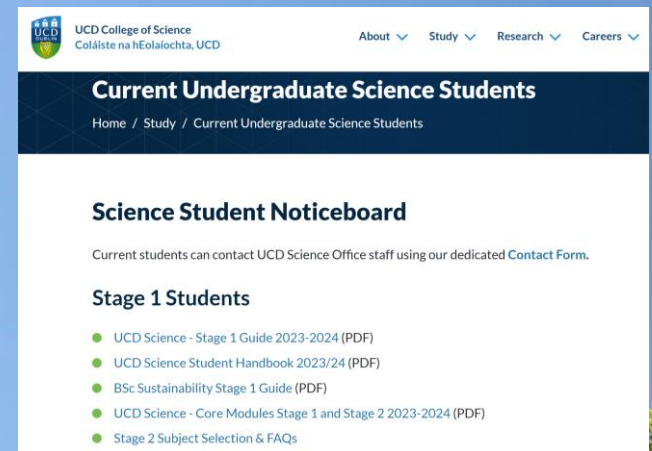
Registration



Virtual Tour



Social, Sport & Wellbeing



Science Explore Multiple Streams

Earth & Environmental Sciences

- Environmental Biology
- Geology

Biological, Biomedical & Biomolecular Sciences

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

Chemistry (includes Medicinal/Sustainable/Biophysical)

- Chemistry
- Chemistry with Environmental & Sustainable Chemistry
- Chemistry with Biophysical Chemistry
- Medicinal Chemistry & Chemical Biology

Mathematics (includes Applied/Financial/Statistics)

- Applied & Computational Mathematics
- Financial Mathematics
- Mathematics
- Statistics

Physics (includes Theoretical/Astronomy & Space Science)

- Physics
- Physics with Astronomy & Space Science
- Theoretical Physics

Science, Mathematics & Education

- Biology, Mathematics & Education
- Chemistry, Mathematics & Education
- Applied Mathematics, Mathematics & Education
- Physics & Mathematics & Education
- Computer Science, Mathematics & Education



Jargon Buster

- UCD is “**trimesterised**” : Each Stage (Year) is divided into 3 trimesters, with exams at the end of trimester 1 (Autumn) & 2 (Spring).
- Current trimester (11 lecture weeks + 1 study week + 2 exam weeks) ends on **Thursday 21st December 2023**. Exams start on Saturday December 9th.
- UCD is “**modularised**” : each stage is divided into 12 **modules**. Each module is worth 5 **credits**.
- **Different types of modules in Science**
 - **Conditional cores** – may need to take these depending on what you have studied previously (**Table 1 in First Year guide**)
 - **Cores** – Must take these in a particular Stage (Year)
 - **Programme cores** – Must take them but can be taken in either of 2 years
 - **Elective** – 1 in stage 1 (trimester 2) from anywhere ([register to this in January](#))

Note: Electives can also be Science option modules

Module Assignments and Exams

- Most modules will involve **lectures, practicals and tutorials**, with **continuous assessment**
 - Consult lecturer / can apply for extenuating circumstances if you miss any for valid, unforeseen reasons for 5 days or more. 2 week deadline.
- Assessment completed by the end of the trimester, including an end of trimester exam in most cases.
- Exam period ends on **Thursday 21st December 2023**
- **Module grades and Grade Points** : A+(4.2), A(4.0),...,D-(2.0) Grade Point Average (GPA) – average over your modules
- **Progression**: can only carry 2 module fails into Stage 2
- **Degree grade** is based 70% on final year, 30% on penultimate year



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	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
BIOL10110	Biology-Cell Biology&Genetics	Spr									Green			
CHEM10050	Basis of Organic & Biol Chem	Spr									Green	Green		
BIOL00010	Fundamentals of Biology	Aut									Black			
CHEM00010	Introductory Chemistry	Aut										Black		
PHYC10070	Foundations of Physics	Aut						Black	Black	Black				Black
BIOL10130 ^B	Biology in Action	Aut									Orange			
BIOL10140 ^B	Life on Earth	Aut									Orange			
BMOL10030 ^B	Biomedical Sciences	Spr									Orange			
MATH00010 ^{A&D}	Introduction to Mathematics	Aut					Black	Black	Black					
CHEM20140	Introductory Transition Metal	Spr										Orange		
CHEM20100	Basis of Inorganic Chemistry	Aut										Orange		
ACM10080	Intro to Applied & Comp Math	Aut	Black					Black	Black	Black				Black
ACM10060 ^C	Appl of Differential Equations	Spr	Green	Green	Green	Green	Orange	Orange	Green	Green	Orange	Orange	Green	Green
MATH10340	Linear Algebra 1 (MPS)	Spr	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
MATH10350	Calculus (MPS)	Aut	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
STAT10060	Statistical Modelling	Spr	Green	Green	Green	Green								
MATH10040	Numbers & Functions	Aut		Orange	Orange						Orange			Orange
MATH10320	Mathematical Analysis	Spr	Orange	Orange	Orange	Orange					Orange			Orange
ECON10720	Microeconomics for Business	Spr		Orange										
PHYC10080	Frontiers of Physics	Spr					Green	Green	Green					Green
PHYC10050	Astronomy & Space Science	Aut					Orange	Orange	Orange					
PHYC10250	Thermal Physics and Materials	Spr					Orange	Orange	Orange					
PHYC20080	Fields, Waves and Light	Aut					Orange	Orange	Orange					Orange
MATH10410	Maths & Science Education	Spr								Green	Green	Green	Green	Green
COMP10020	Introduction to Programming II	Spr										Green		
COMP10290	Computation for Scientists	Aut											Black	
COMP10040	Intro to Comp Architecture	Aut											Orange	

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)*

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 it 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.



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					
CHEM10050	Basis of Organic & Biol Chem	Spr	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
CHEM00010	Introductory Chemistry	Aut	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					
BIOL10140 ^B	Life on Earth	Aut	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					
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	Black	Black	Black	Black
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												Orange	Orange	Orange	Orange
CHEM20100	Basis of Inorganic Chemistry	Aut												Orange	Orange	Orange	Orange

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



How do you get from here to graduation?

- **Stage 1:** First Year is divided into 12 modules. You must fulfill the requirements of at least two subjects.
- **Stage 2:** ALL subjects that you are qualified to take are available to you. Study two, three or more of these.
- **Stage 3 and beyond*:** Focus on ONE subject – your degree major. The only subjects which have been oversubscribed in stage 3 are Pharmacology, Neuroscience and Physiology.

*22 of the degree majors are 3 or 4 year BSc degrees.

Science, Maths and Education degrees are 5 years – BSc + MSc.





Science Student Supports

- **Science Office (<https://www.ucd.ie/science/contact/askscience/>)**
 - Registration queries, programme queries, academic regulations and policies
 - General enquiries on academic, registration or other queries
 - asdean.science@ucd.ie (use your UCD email account)
- **Academic Staff and School Office Staff**
 - Available to discuss academic and other issues
- **Student Advisers**
 - Dani (dani.foy@ucd.ie)
 - Megan (megan.kuster@ucd.ie)
- **Mathematics Support Centre**
 - Provides assistance to students for completion of the Mathematics modules
- **Peer Mentors**
 - You have each been assigned a peer mentor who is a student in Stage 2 or 3 of the programme
- All this information is in the student handbook:
<https://www.ucd.ie/science/t4media/student-handbook.pdf>

www.ucd.ie/science



@ucdscience

- **CONTACTING THE SCIENCE OFFICE**

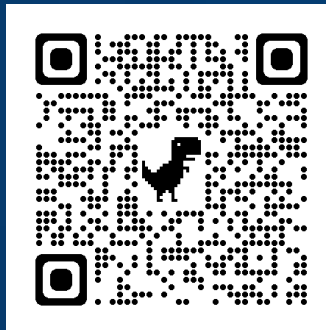
The Science **Connector Form** should be used as the first port of call for contacting the office. The form not only holds a lot of key information, but the queries you submit are monitored by a team of people and will be responded to quickly: <https://www.ucd.ie/science/contact/askscience/>

You can email staff members, please email one person only in the office with your query using your UCD email account.

- **APPOINTMENTS/MEETINGS**

Drop-ins to the office are welcome from Monday to Friday from 10am-12 noon and 2-4pm daily

You can also request virtual meetings by using the Connector Form <https://www.ucd.ie/science/contact/askscience/>
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Parents/Guardians Evening Event on 25th October

For the parents/guardians of Stage 1 Science students, the event will take place from 5.30 to 7.30pm on Wednesday 25th October 2023.

The information is available at:

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

We will send out the invitation to all stage 1 students next week

- Start as you mean to go on
- Get involved
- First weeks of Trimester 1 of Stage 1 are often the toughest
- Get advice
- Check out Science Brightspace
- We are here to help you 😊
- **SCIENCE CONTACT FORM** at www.ucd.ie/askscience/

Good Luck
&
Be Positive

