Science Pre-Stage 2 Advisory for 2020

Information for students in
Stage 1

Assoc. Prof. Tara McMorrow

(asdean.science@ucd.ie)
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Progressing to Stage 2

• You must have **60 credits** to complete Stage 1

• **Attend** lectures, tutorials, labs.  
  **Hand in** 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 semester (including repeats and resits)
Stage 2 Choices

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

For Stage 2, you MUST

- Select at least 2 of the 27 subjects...
- If both are from among Pharmacology and Neuroscience, you must select at least 3 subjects.

- Some Stage 2 students are covering 6 subjects.
- Can combine some subjects across streams (e.g. Pharmacology & Medicinal Chemistry; Geology & Zoology; Geology & Env. Biology; Physics & Chemistry).
### Stage 2 Cores for BBB subjects 2020/21

**Core**
- *Programme core* do in stage 1 or 2

**Conditional core** – if you didn’t study Physics before

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**Programme core do in Stage 2 or 3**

**Any 2 of BIOL10130, BIOL10140 and BMOL10050**

**MATH10290** Linear Algebra

**PHYC10070** Foundations of Physics

**CHEM20090** Chemistry for Biologists

**BMOL20060** Biomolecular Lab Skills 1

**BMOL20070** Biomolecular Lab Skills 2

**BMOL20080** Metabolism, Immunity & Infection

**BMOL20090** Molecular Genetics & Biotech

**BIOC20050** Principles of Biochemistry

**MICR20050** Principles of Microbiology

**PHAR20040** Pharmacology: Biomedical Science

**NEUR20050** Principles of Neuroscience

**GENE20020** Principles of Genetics

**BIOL20030** Biological systems

**CELB20060** Principles of Cell & Molecular Biology

**ENVB20050** Principles of Env Biol & Ecol

**BOTN20040** Principles of Plant Biology

**ZOOL20030** Principles of Zoology

**PHYS20202** Physiology of Sensing & Responding

**PHYS20030** Physiology of Internal Env of Human Body

**PHYS20040** Introduction to Physiology

**EDUC20020** Science & Maths Pedagogy

**EDUC2030** Education for democracy

**ACM10070** Math Modelling in the Sciences

**MST20070** Multivariable Calculus

**MST20040** Analysis
# Stage 2 Cores for CCS subjects 2020/21

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## Stage 2 Cores for MPG subjects 2020/21

### Core Courses
- GEOL20190 Sedimentology & Palaeobiology
- GEOL20200 Earth Structure and Geodata
- GEOL20210 Fieldwork & Map work
- GEOL20130 Field Geology (Stage 2)
- MATH20060 Calculus of Several Variables
- ACM20030 Computational Science
- ACM20150 Vector Integral & Differential Calculus
- ACM20050 Classical Mech. & Special Rel.
- ACM20060 Oscillations in Mech Systems
- ACM10060 Applications of Differential Equations
- ECON10720 Business Economics
- FIN20010 Principles of Finance
- MATH10320 Mathematical Analysis
- MATH10040 Numbers & Functions
- MATH10340 Linear Algebra in MPS
- MATH20300 Linear Algebra 2 for MS
- MATH20310 Groups, Rings and Fields
- STAT20100 Inferential Statistics
- STAT20110 Probability Theory
- STAT30240 Linear Models 1
- STAT30250 Linear Models 2
- PHYC20020 Introductory Quantum Mechanics
- PHYC20030 Thermal Physics and Materials
- PHYC20040 Exploring the Solar System
- PHYC20060 Methods for Physicists
- PHYC20080 Fields, Waves and Light
- PHYC20090 Electronics and Devices
- PHYC10050 Astronomy & Space Science
- EDUC20020 Science & Maths Pedagogy
- EDUC20030 Education for democracy

### Programme core do in stage 1 or 2
- GEOL20200 Earth Structure and Geodata
- ACM20030 Computational Science
- ACM20150 Vector Integral & Differential Calculus
- ACM20050 Classical Mech. & Special Rel.
- ACM20060 Oscillations in Mech Systems
- MATH10320 Mathematical Analysis
- MATH10040 Numbers & Functions
- MATH10340 Linear Algebra in MPS
- MATH20300 Linear Algebra 2 for MS
- MATH20310 Groups, Rings and Fields
- STAT20100 Inferential Statistics
- STAT20110 Probability Theory
- STAT30240 Linear Models 1
- PHYC20020 Introductory Quantum Mechanics
- PHYC20030 Thermal Physics and Materials
- PHYC20040 Exploring the Solar System
- PHYC20060 Methods for Physicists
- PHYC20080 Fields, Waves and Light
- PHYC20090 Electronics and Devices
- PHYC10050 Astronomy & Space Science
- EDUC20020 Science & Maths Pedagogy
- EDUC20030 Education for democracy

### Programme core do in Stage 2 or 3
- GEOL20190 Sedimentology & Palaeobiology
- GEOL20200 Earth Structure and Geodata
- GEOL20210 Fieldwork & Map work
- GEOL20130 Field Geology (Stage 2)
- MATH20060 Calculus of Several Variables
- ACM20030 Computational Science
- ACM20150 Vector Integral & Differential Calculus
- ACM20050 Classical Mech. & Special Rel.
- ACM20060 Oscillations in Mech Systems
- ACM10060 Applications of Differential Equations
- ECON10720 Business Economics
- FIN20010 Principles of Finance
- MATH10320 Mathematical Analysis
- MATH10040 Numbers & Functions
- MATH10340 Linear Algebra in MPS
- MATH20300 Linear Algebra 2 for MS
- MATH20310 Groups, Rings and Fields
- STAT20100 Inferential Statistics
- STAT20110 Probability Theory
- STAT30240 Linear Models 1
- STAT30250 Linear Models 2
- PHYC20020 Introductory Quantum Mechanics
- PHYC20030 Thermal Physics and Materials
- PHYC20040 Exploring the Solar System
- PHYC20060 Methods for Physicists
- PHYC20080 Fields, Waves and Light
- PHYC20090 Electronics and Devices
- PHYC10050 Astronomy & Space Science
- EDUC20020 Science & Maths Pedagogy
- EDUC20030 Education for democracy
Decisions – When and How?

- **Decide** on your Stage 2 subjects
  - *Talk to Subject Reps on the concourse & continue to get advice*

- **Book** your start time for registration – email from Registry (July/August)

- **Complete** your Stage 2 SUBJECT and MODULE choices (August)
  - Students are required to register to 50 programme credits and can choose 10 credits from electives or programme options
Summary of process

- Incoming Stage 2 students will have their registration consolidated into 2 steps:
  - Selection of start time for registration in early August
  - Subject and module registration from 20th August

*(dates are still to be confirmed)*

Survey Request will be sent to students to indicate subject choices
Looking further ahead...

- You will select your degree major in August 2021. Assignment of degree majors for Stage 3 **may be competitive**.
- In current and recent academic years, over 99% of students got their first choice of degree major; only Pharmacology and Neuroscience have 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....

- **SCI30080** Professional Placement - Science
  - Internships
  - Counts for credit for Stage 3 or Stage 4 in some subjects
- Contact [scienceinternships@ucd.ie](mailto:scienceinternships@ucd.ie) (Carla and Kirsten)

- Study abroad
  - Talk to Subject Head

- UCD Career Development Centre
The Next Strides: Maximise *Your* Career Options

Edel Caraway
Career & Skills Consultant
UCD College of Science

UCD Career Development Centre
www.ucd.ie/careers
School of Mathematics and Statistics Info Session

The School of Mathematics and Statistics is organising a dedicated Pre-Stage 2/3 Advisory for anyone who is interested in finding out more about the following programmes:

BSc Applied and Computational Mathematics
BSc Financial Mathematics
BSc Mathematics
BSc Science, Mathematics, and Education
BSc Statistics

It will held from **3-4pm** today **Wednesday, 19 February, 2020** in **C005 Health Sciences**

Each of the five programme directors will give a short talk about their respective programmes, followed by a Stage 4 student from each programme talking about their experiences

**This event is intended to complement this one and we encourage you to attend**
Be Positive!

- *First Trimester of Stage 1 is always the toughest*

- Get advice

- Please do talk to us

- Please do talk to us:
  - Online: [http://www.ucd.ie/science/contact/askscience/](http://www.ucd.ie/science/contact/askscience/)
  - In person: Drop into the Science Office (E1.09)

Good luck

Science Day

Thursday February 20th