

Faculty of Science

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- Undergraduate programmes
- Our pedagogical approach
- College Communities
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Durham – a world-leading University

- Science Faculty Departments are world leaders in scientific research
- We provide an excellent educational experience and wider student experience
- It is a dynamic and *collegiate* environment to study.
- Durham has a unique combination of facilities, beauty, heritage, opportunities and culture.



Faculty of Science - who are we?

We are home to a diverse community of staff and students across eight academic Departments

Whether it's:

- our world-leading research that seeks to empower and inspire,
- our commitment to educational excellence,
- or our focus on the next generation of scientists through our science outreach and engagement.

We push forward, break down barriers, asking the big questions and getting answers.

Faculty of Science - hear from our students



Our Science Departments:

- **Biosciences**
 - **Chemistry**
 - **Computer Science**
 - **Earth Sciences**
 - **Engineering**
 - **Mathematical Sciences**
 - **Physics**
 - **Psychology**
- ...and Natural Sciences**



Research snapshots (1)

- Our **computer scientists** are enhancing X-ray technology, harnessing AI for applications such as in airport scanners
- Our **engineers** are improving the wireless networks on which we all rely
- Our **psychologists** are deepening our understanding of voice hearing
- Our **bioscientists** are tackling the spread of malaria

Research snapshots (2)

- Our **earth scientists** are helping people stay safe when earthquakes erupt
- Our **mathematicians** are supporting food safety and sustainability
- Our **chemists** (and physicists) are partnering with Procter and Gamble on developing improved cleaning technology
- Our astronomers in **physics** are helping develop telescopes to investigate dark matter

Investment in Science

- The University is investing significantly in Science, including infrastructure
- Recent developments include the new Maths and Computer Science Building, and Chemistry teaching lab refurbishments
- Future plans for new molecular sciences building
- Focus on Energy, Molecular Science and Quantum
- Recent expansion in student (and staff) numbers in Maths and Computer Science





Faculty of Science Undergraduate Programmes



UG Programmes

Most Departments offer BSc and also **undergraduate Masters (e.g. MBiol, MMath, MChem, MSci)** options

BSc = 3 years

Masters = 4 years

(may vary if additional placement years included)

Where there are 'streams', programmes typically have common first two years, with specialism in third year (and beyond).

UG Programmes - Biosciences

C103: BSc Biological Sciences

(C105: with Placement; C108: with Year Abroad)

C107: MBiol Biosciences

C702: BSc Biochemistry

(C703: with Placement; C704: with Year Abroad)

Typical entry requirement: AAA to include Biology or Chemistry plus another science (to include Psych/Geog/Maths but not PE).

Practical component required for practical science subjects.

UG Programmes - Chemistry

F100: BSc Chemistry

F105: MChem Master of Chemistry

F111: MChem Master of Chemistry (Industrial Route)

F102: MChem Master of Chemistry (International Route)

Typical entry requirement: A*AA to include Maths at grade A and Chemistry at grade A. Practical component required for practical science subjects.

UG Programmes – Computer Science

G400: BSc Computer Science

(G409: with Placement; G408: with Year Abroad)

G406: MEng Computer Science

(G410: with Placement; with Year Abroad)

Typical entry requirement: A*AA to include Maths grade A.
Practical component required for practical science subjects.

UG Programmes – Earth Sciences (1)

F644: MSci Earth Sciences

F645: BSc Climate Science

(F649: with Placement; F648: with Year Abroad)

F630: BSc Environmental Geosciences

(F632: with Placement; F631: with Year Abroad)

UG Programmes – Earth Sciences (2)

F600: BSc Geology

(F605: with Placement; F603: with Year Abroad)

F665: BSc Geophysics

(F667: with Placement; F666: with Year Abroad)

F643: BSc Geoscience

(F647: with Placement; F646: with Year Abroad)

Typical entry requirement: A*AA to include Maths grade A. Practical component required for practical science subjects.

UG Programmes – Engineering (1)

H100: MEng General Engineering

(H108: with Placement Year; H106: with Year Abroad)

H103: BEng General Engineering

(H107: with Placement Year; H105: with Year Abroad)

H211: MEng Engineering (Civil)

(H213: with Placement; with Year Abroad)

H214: BEng Engineering (Civil)

(H216: with Placement; H215: with Year Abroad)

H411: MEng Engineering (Aeronautical)

(H413: with Placement; H412: with Year Abroad)

UG Programmes – Engineering (2)

H911: MEng Engineering (Bioengineering)
(H913: with Placement; with Year Abroad)

H511: MEng Engineering (Electrical)
(H513: with Placement; H512: with Year Abroad)

H514: BEng Engineering (Electrical)
(H516: with Placement; H515: with Year Abroad)

H711: MEng Engineering (Electronic)
(H713: with Placement; H712: with Year Abroad)

H714: BEng Engineering (Electronic)
(H716: with Placement; H715: with Year Abroad)

UG Programmes – Engineering (3)

H311: MEng Engineering (Mechanical)

(H313: with Placement; H312: with Year Abroad)

H314: BEng Engineering (Mechanical)

(H316: with Placement; H315: with Year Abroad)

H811: MEng Engineering (Renewable Energy)

(H813: with Placement; H812: with Year Abroad)

Typical entry requirement: A*AA to include Maths and one subject which carries a practical endorsement. Practical component required for practical science subjects.

Note: to be an Engineer after graduation, *accredited* MEng is required

UG Programmes – Mathematical Sciences (1)

G100: BSc Mathematics

(G108: with Placement; G109: with Year Abroad)

G103: M Math Master of Mathematics

(G118: with Placement; G117: with Year Abroad)

G101: M Math Master of Mathematics (European Studies)

G114: M Math Master of Mathematics and Statistics

(G116: with Placement; G115: with Year Abroad)

G111: BSc Mathematics and Statistics

(G113: with Placement; G112: with Year Abroad)

Typical entry requirement: A*A*A* to include A* in Maths and A* in Further Maths (or alternatives if suitable performance in University's Admissions Test (TMUA)).

UG Programmes – Physics

F300: BSc Physics

(F311: with Placement; F300A: with Year Abroad)

F301: MPhys Physics

(F309: with Placement; F306: with Year Abroad)

FF3N: MPhys Physics and Astronomy

F344: MPhys Theoretical Physics

Typical entry requirement: A*A*A to include Maths and Physics.
Practical component required for practical science subjects.

UG Programmes – Psychology

C800: BSc Psychology

(C806: with Placement Year; C801: with Year Abroad)

CL86: BSc Psychology and Anthropology

(C86L: with Placement Year; C8L6: with Year Abroad)

CV85: BA Philosophy and Psychology

(C8V5: with Placement Year; CV58: with Year Abroad)

C807: BSc Psychological and Behavioural Science

(C809: with Placement; C808: with Year Abroad)

Typical entry requirement: AAA.

Practical component required for practical science subjects.

UG Programmes – Natural Sciences

FGC0: MSci Natural Sciences
(FGC1: with Placement)

CFG0: BSc Natural Sciences
(CFG2: with Placement; CFG1: with Year Abroad)

CFC0: BSc Natural Sciences (Psychology pathway)
(CFC2: with Placement; CFC1: with Year Abroad)

Typical entry requirement: A*AA. Practical component required for practical science subjects.

UG Programmes – Natural Sciences (2)

Subjects are divided into three groups:

Group 1 includes **Biology, Chemistry, Computer Science, Earth Sciences, Mathematics, Physics and Psychology**. At least half of studies in the second and third years must be from the subjects listed in Group 1. Not all subjects can be taken together.

Group 2 includes **Anthropology, Business, Economics, Geography and Philosophy**.

Group 3 includes **Sport and Education** (excluding History of Art). These subjects are exclusive to the BSc route and no more than half of your studies in the second and third years can be made up of subjects in Groups 2 and 3.

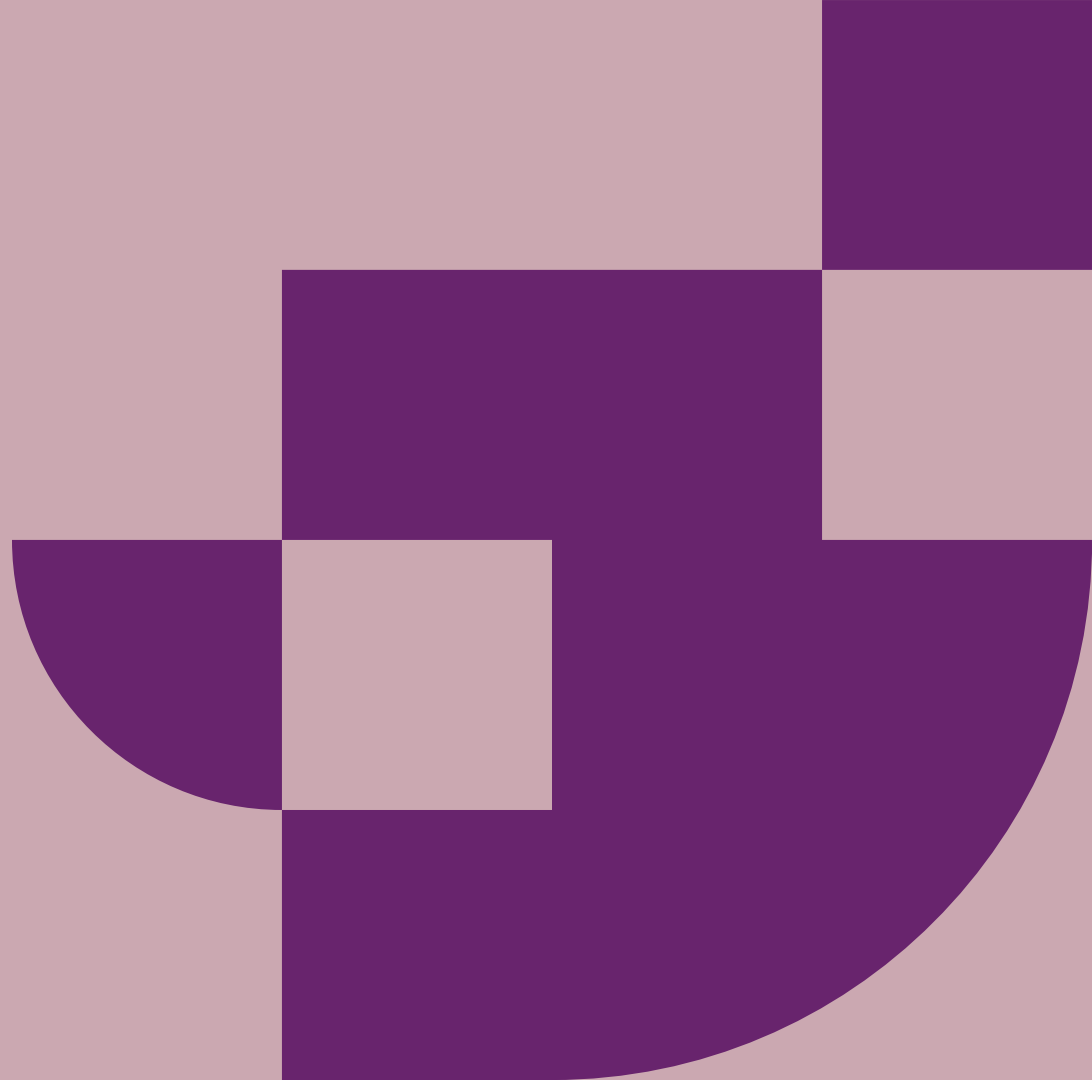
UG Programmes with Foundation Year

BSc Biological Sciences with Foundation

BSc Computer Science with Foundation

BSc Psychological and Behavioural Science with
Foundation

Our pedagogical approach



Research-Led Education

- Teaching and learning aligned with our world-leading research.
- Students exposed to cutting edge ideas, the latest debates and hypotheses.
- Learning is oriented towards vital (and transferable) research skills: intellectual synthesis, independent study, research project design and implementation, and critical thinking.
- **Inquiry-based learning rather than acquisition of content.**
- Brings us closer to students, and students closer to us.

Strong student support (academic – within Departments)

- Department advisers and learning and teaching teams
- Dedicated student support officers in Departments
- Science Faculty Officers
- Academic Support Office
- Heads of Department and other Department staff
- Student voice: representatives on Boards of Studies (i.e. the main Department committee), Staff-Student Consultative Committee, Education Committee
- Training and development staff within Durham (e.g. DCAD languages and study skills support)
- Libraries
- CIS (for IT needs)



Strong student support (pastoral – outside Departments)

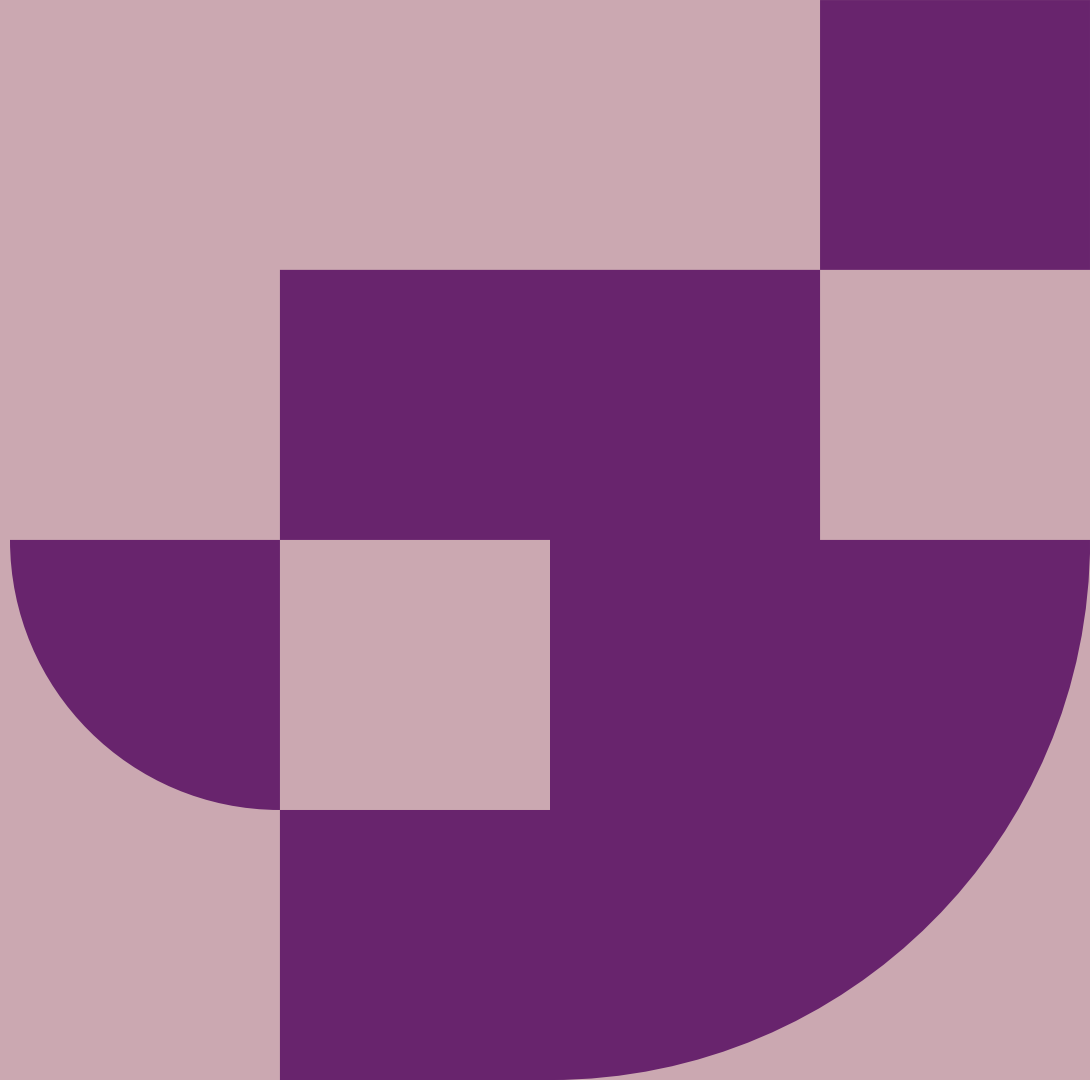
- Colleges - student support staff
 - Colleges - student-run welfare support
 - Student Union
 - Student Support and Wellbeing Directorate
 - Professional counselling services
 - Careers advice
 - Financial support and advice
- ...and last but not least: other students / peer networks



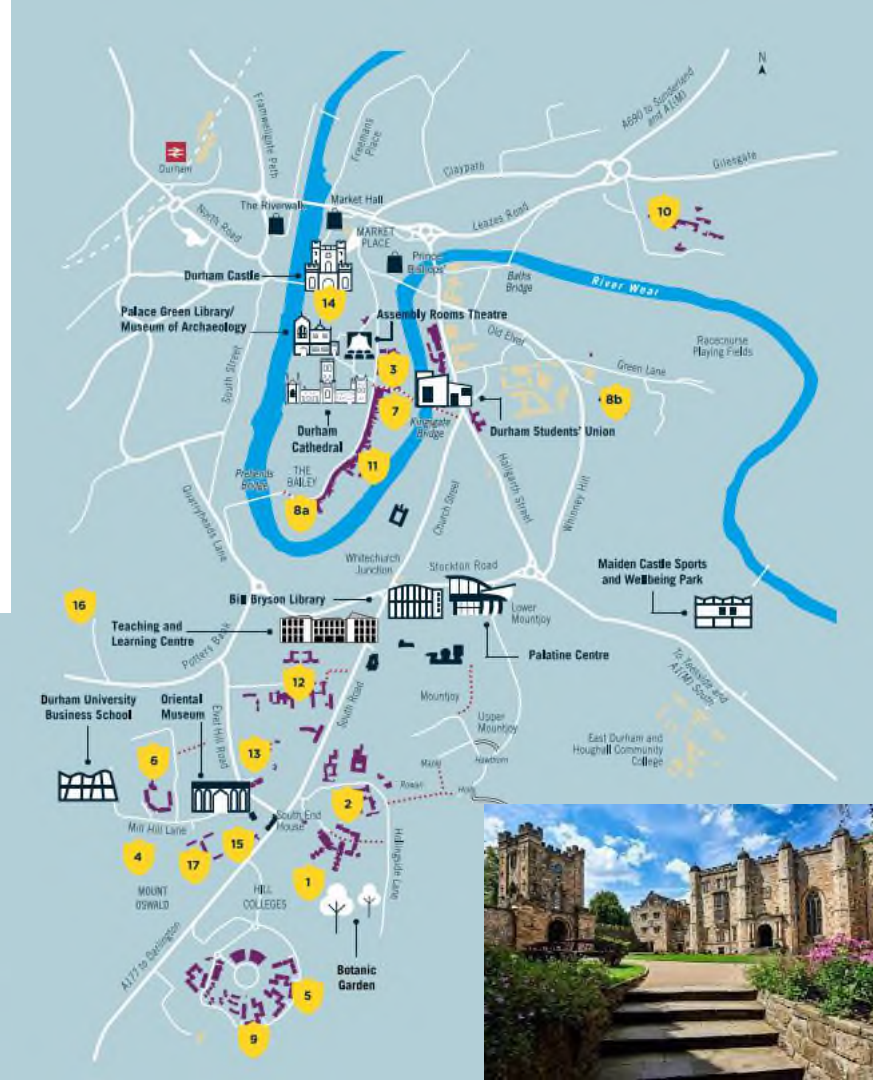


Durham
University

College Communities



Colleges



- | | | | |
|----|--|----|-------------------------------------|
| 1 | Collingwood College | 9 | Stephenson College |
| 2 | Grey College | 10 | St Hild & St Bede |
| 3 | Hatfield College | 11 | St John's College |
| 4 | John Snow College | 12 | St Mary's College |
| 5 | Josephine Butler College | 13 | Trevelyan College |
| 6 | St Aidan's College | 14 | University College |
| 7 | St Chad's College | 15 | Van Mildert College |
| 8a | St Cuthbert's Society (Bailey Site) | 16 | Ustinov College (postgraduate only) |
| 8b | St Cuthbert's Society (Parsons Field Site) | 17 | South College |



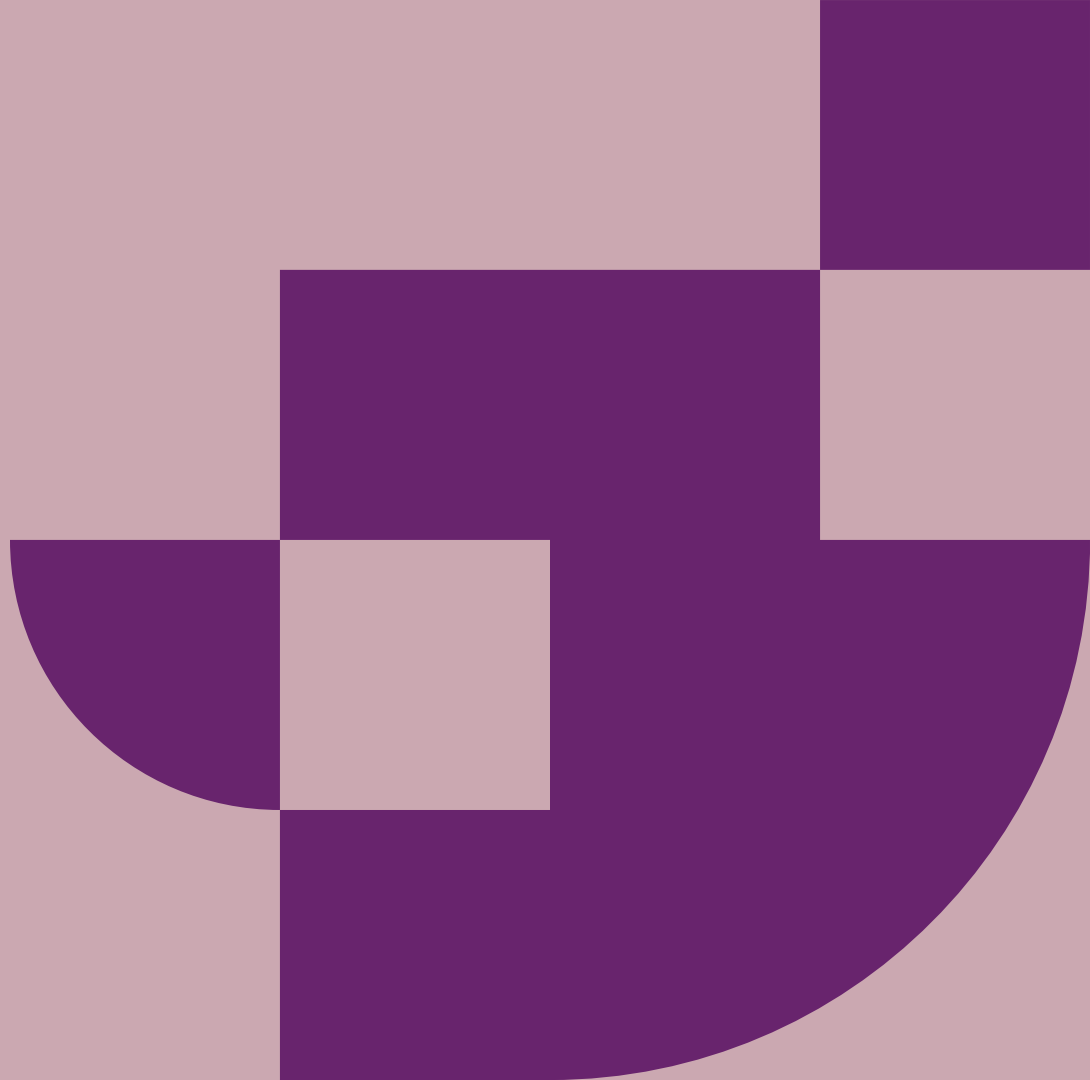
College opportunities: wider student experience

A Durham college is so much more than a place to live...

- Community
- Intellectual enquiry
- Sport and wellbeing
- Music
- Theatre
- Volunteering
- Leadership opportunities
- Employability and enterprise opportunities



Graduate prospects



Times Good University Guide: Graduate Prospects

Durham overall placed 8th (89.5%). Science Faculty scores:

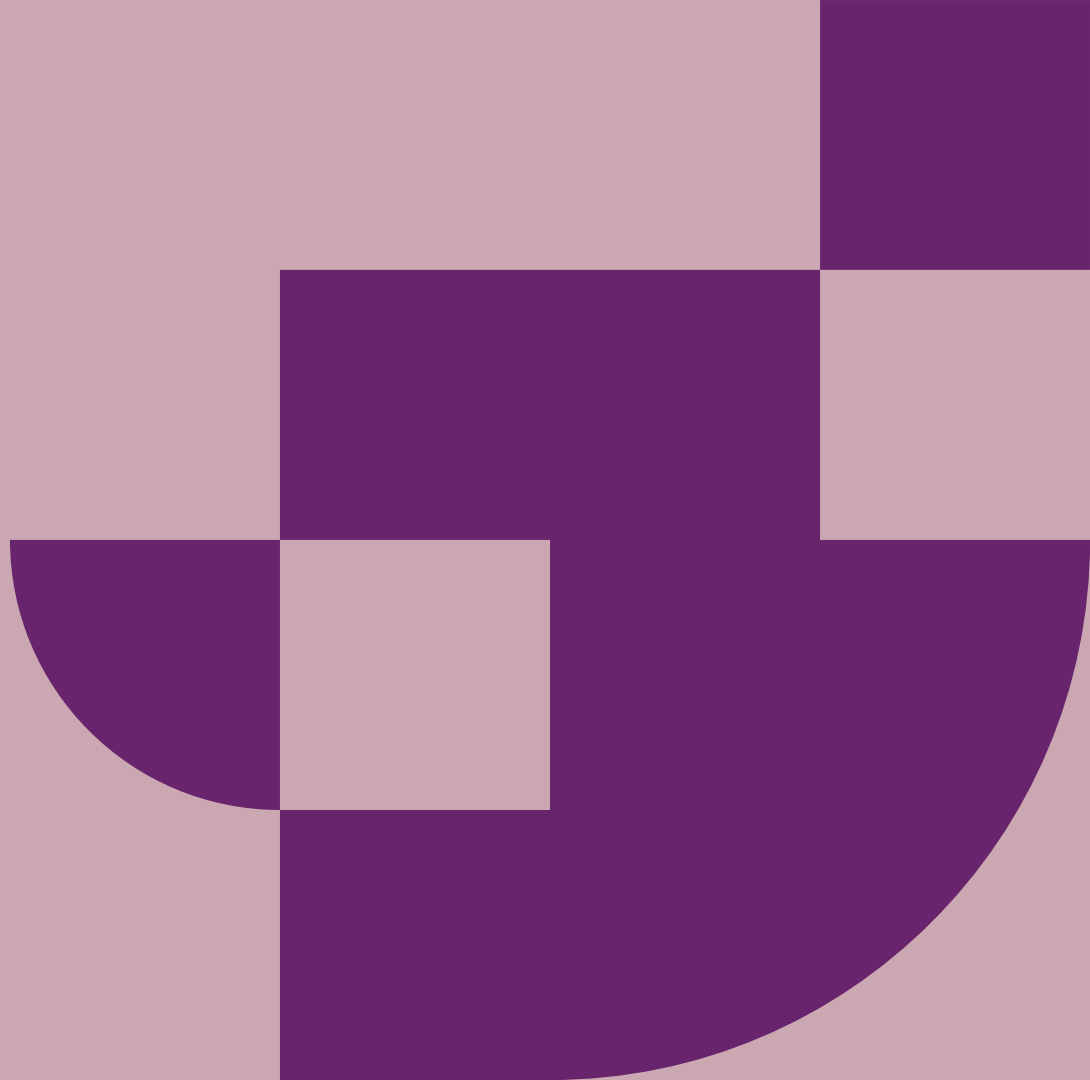
Department	2024 score	2024 ranking
Biological Sciences	88.4%	11/96
Chemistry	92.2%	6/51
Earth Sciences	88.1%	7/27
Engineering	93.9%	4/17
Computer Science	96.3%	7/111
Mathematical Sciences	88%	11=/65
Physics	90.8%	8/44
Psychology	82.9%	5/115

Complete University Guide:

Durham overall placed 8th (88%). Graduate prospects 86% (8th)

Department	Overall score 2024	Graduate Prospects
Biological Sciences	5 th (91%)	87%
Chemistry	5 th (95%)	90%
Earth Sciences	5 th (88%)	82%
Engineering	6 th (91%)	100%
Computer Science	4 th (93%)	97%
Mathematical Sciences	11 th (93%)	87%
Physics	3 rd (96%)	94%
Psychology	13 th (92%)	75%

Hints and tips for applicants



Tips for successful applications

Choose a subject they enjoy *independent of their teacher*

Show some enthusiasm for both the subject and other, well-rounded things

Get the grades!



Top tips for being a successful UG student, whatever degree programme is picked:

- Learn to be a more independent learner
- Enjoy it! Follow your curiosity.
- Be organised. Read everything!
- Build relationships with academic staff – ask questions
- Communicating science is an essential part of doing science
- Don't work too hard. Work smart hours, not long hours.
- Seize every opportunity.
- Be brave. And ask questions...

**Any
questions?**