

Civil Engineering



Undergraduate study

Courses

Single Honours

BEng Civil Engineering

three years H205

MEng Civil Engineering

four years H200

MEng Civil Engineering with Study in Continental Europe

four years H201

MEng Civil Engineering with Study Abroad*

four years

MEng Civil Engineering with a Year in Industry†

five years

*Entry by transfer from H200 or H201 at the end of the first year.

†Entry by transfer from H200, H205 or H201 at the end of the first year subject to eligibility criteria.

This leaflet contains information for students planning to start university in autumn 2019. We have made every effort to ensure all details are correct at the time of going to press (June 2018). However, since this information is subject to change, you are advised to check the University's website, bristol.ac.uk/ug-study, for the latest updates.

Why study civil engineering at Bristol?

Civil engineers shape the basic structure of the world we live in. They are responsible for the creation and maintenance of much of the infrastructure that we often take for granted. Every reservoir, dam, bridge, road, tunnel and building is designed and built by civil engineers. They are a vital part of multi-disciplinary teams tackling sustainability challenges in both developed and developing countries.

Bristol's Department of Civil Engineering has an international reputation for quality, with excellent teaching and research. You will learn under the guidance of international researchers and industry experts. The course structure is continually updated to reflect changing knowledge and the latest advances in civil engineering around the world. Working with professional institutions, we look five to ten years ahead and beyond to anticipate the emerging needs and future shape of the field.

If you want to make a difference to the world and to the quality of people's lives, this is the course for you. Our degree courses will develop your technical and project management skills, giving you the opportunity to be a future leader in the civil engineering industry. As a small department – one of six in a strongly integrated engineering faculty – we offer a friendly and supportive learning environment. The relatively small number of students admitted each year means that we can get to know you individually and give you the kind of personal attention that is necessary for studio-based design teaching.

Our aim is to produce civil engineers who can influence the world we live in. You will learn about:

- environmental and sustainable engineering;
- designing and building major structures;
- project management;
- community and infrastructure planning, design and liaison;
- disaster risk management;
- urban infrastructure and smart cities.

'Bristol is one of the best places in the world to study civil engineering. The department has the largest shaking table in Europe, and the lecturers are really inspiring and push you to challenge yourself. The course is very well rounded with elements of architecture and energy. Sustainability is integrated in the course, which is something that I am really passionate about.'

Abdel (MEng Civil Engineering)

What will you study?

The first two years of all our civil engineering courses cover the basics of engineering analysis and design. This includes structures, mathematics, soil and fluid mechanics, materials, computing and surveying. You will also have options including studying sustainable development, understanding architecture or developing a foreign language.

In years three and four you can study specialist areas through optional units, which may include Sustainable Construction, Sustainable Systems, and Wind and Marine Power, or specialise in earthquake engineering. The third and fourth years offer a major research project in which you can choose a problem related to one of the research areas of the department. Units in professional studies will widen your knowledge of the business, management, ethics and legal sides of the construction industry.

Design is at the heart of our courses. For example, in the first year you will find a creative solution for designing and making a model bridge. Second-year design covers building design and will give you many skills required to work in industry as a practising structural engineer. The third year includes design projects aimed at developing early-stage design skills (scheme design); they may include designing dams, buildings and road intersections. For MEng students, the fourth year sees the culmination of your studies in a design project. These are based on real design problems which have often emerged through our links with industry. The final projects are recognised as being of outstanding quality, and we believe that many meet the standards of top practicing engineering consultancies.

Students on the MEng with Study in Continental Europe or Study Abroad degrees will spend the third year at a partner university in Europe or farther afield. Your study plan will be arranged on an individual basis, depending on where you spend the year abroad – it may include projects and specialist subjects that are not taught at Bristol.

The three-year BEng Civil Engineering is particularly attractive to international students who may not require a four-year MEng degree to qualify as professional engineers in their own countries. It is also attractive for UK and EU students who do not want to commit initially to a four-year degree course.

Our course is demanding, but you will be guided by first-class engineers in a friendly and supportive environment. You will be encouraged to ask questions and challenge current thinking. The department provides an excellent teaching environment using a mixture of lectures, example classes, guided reading, computer-assisted learning, site visits, group work in laboratories and group projects. The course is assessed through a combination of written examinations, reports, and oral or poster presentations.

It is important that you enjoy your university education and feel supported throughout; you will have a personal tutor with whom you can discuss academic or personal matters on an individual basis.



'The best things about the course are the projects in different areas of civil engineering. We've explored surveying, design of concrete and steel buildings, and design of a dam, a highway junction and a school, and we were given a vast array of projects to work on in our fourth year.'

Vessy (MEng Civil Engineering)

Facilities and links with industry

Our facilities

The department's research activity provides a stimulating environment in which to study civil engineering. Our geotechnical, structural and hydraulic water engineering facilities are world class, and undergraduate students use these in their learning. The earthquake shaking table, the most advanced in Europe, is the heart of the Earthquake Research Centre and can test structures up to 15 metres high.

The recent Engineering Growth Project invested £14 million to equip the Faculty of Engineering for the 21st century. This major expansion has meant our facilities now include state-of-the-art equipment and large, flexible teaching, design, study and workshop spaces, enabling interactive teaching and learning. Our new atrium and café act as social learning and meeting spaces, with the option to book project and study rooms.

Industrial Liaison Office

The Industrial Liaison Office (ILO) manages the Faculty of Engineering's links with a diverse set of world-class engineering and technology companies and works to ensure that our students engage with industry from the very start of their studies.

As an engineering student at Bristol, you will benefit from an outstanding range of activities designed to enhance your employability. These include our Inside Track lecture series, where business insiders offer first-hand insight into the engineering industry. Our industrial mentoring and internship schemes provide opportunities to gain valuable experience and make important connections, and our regular newsletter highlights further opportunities and industry events. See our website for more information: bristol.ac.uk/engineering/ilo.

'Our internship scheme continues to attract support from a wide range of technology and engineering companies, allowing these companies to build relationships with our high-calibre students who will form the engineering workforce of the future.'

Professor Andrew Nix,
Dean of the Faculty of Engineering



bristol.ac.uk/ug-study



Careers and graduate destinations

Bristol graduates are recognised as being among the best in the country and are actively sought after by top employers. We regularly feature toward the top of national graduate employment tables.

Major recruiters of civil engineering graduates include:

- consultants – who plan and design projects and may supervise or plan implementation;
- contractors – who organise the execution of designs on sites, oversee the labour force and materials, and consider time, cost and safety constraints;
- utility companies and local authorities, including water, highways and drainage – who may act in both design and site management capacities;
- the Army, particularly the Royal Engineers;
- other large engineering industries, including petroleum and mining, public transport, power generation and supply companies.

The University Careers Service provides careers information, advice and guidance for all students. This includes help on writing CVs, cover letters and application forms, setting up mock interviews, and organising relevant workshops, talks and presentations.

80 per cent of MEng Civil Engineering graduates are in work or further study six months after graduation, and 100 per cent of those working are in professional or managerial roles.

(Destinations of Leavers from Higher Education survey 2016/17)



'The best part about studying civil engineering at Bristol is the ability to use the world-class civil engineering laboratories while undertaking an undergraduate degree. In my third-year research project I spent most of my time in the laboratories using machinery and instruments that many young engineers can only dream of.'

Emily (MEng Civil Engineering)

Making your application

Typical offer for BEng/MEng Civil Engineering*

Visit bristol.ac.uk/ug19-civilengineering for other qualifications.

A-levels A*AA (contextual AAB[†]) including A*A (contextual AA[†]) in Mathematics and a science-related subject (in any order).

IB Diploma 38 points overall (contextual 34[†]) with 18 at Higher Level (contextual 17[†]), including 6, 6 at Higher Level in Mathematics and a science-related subject.

English Language Profile E^{††}

GCSEs No specific subjects required.

[†]For information on contextual offers, visit bristol.ac.uk/contextual-offers.

^{††}For details of English language profiles, visit bristol.ac.uk/ug-language-requirements.

Selection UCAS or Common Application.

*The typical offer is indicative only and the University accepts a wide range of qualifications. The information is correct at the time of printing (June 2018); however, we recommend you check the University's website for the most up-to-date information: bristol.ac.uk/ug-study.

We will look closely at your potential academic ability, based on previous examination results and predicted grades, and your intellectual motivation. We also look at what you say about your personal interests, including your extracurricular activities and positions of responsibility, and the report provided by your academic referee.

In particular, we are looking for:

- your interest in and commitment to the subject;
- evidence of clear thinking and understanding;
- problem-solving and analytical skills;
- clear evidence of relevant reading or research into the subject area;
- your standard of written English.

Additional criteria we consider include your response to any challenges faced, teamwork skills, and how appropriate our civil engineering course is to your declared interests and aspirations.

Further information

Find out more about the Department of Civil Engineering: bristol.ac.uk/civilengineering.

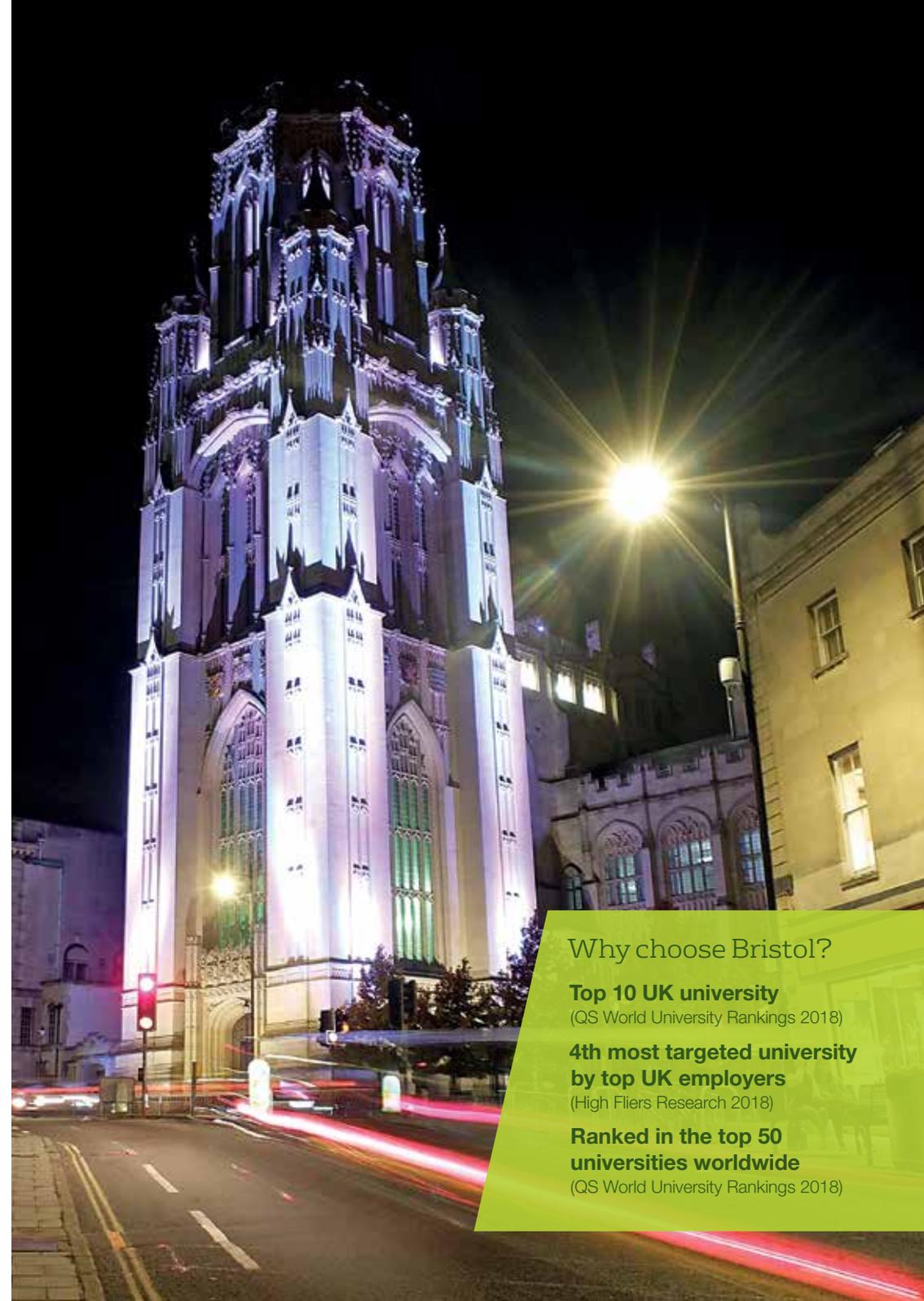
Institution of Civil Engineers: www.ice.org.uk

The Chartered Institution of Highways & Transportation: www.ciht.org.uk

Institution of Structural Engineers: www.istructe.org

Engineering Council: www.engc.org.uk

Engineering Development Trust – The Year in Industry: www.etrust.org.uk/the-year-in-industry



Why choose Bristol?

Top 10 UK university
(QS World University Rankings 2018)

**4th most targeted university
by top UK employers**
(High Fliers Research 2018)

**Ranked in the top 50
universities worldwide**
(QS World University Rankings 2018)

Contact us

Enquiries Team

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Email choosebristol-ug@bristol.ac.uk

If you have any questions about courses, applications or any aspect of being a UK or international student at Bristol please contact the Enquiries Team.

Accommodation Office

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Email accom-office@bristol.ac.uk
bristol.ac.uk/accommodation

Disability Services

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Email disability-services@bristol.ac.uk
bristol.ac.uk/disability-services

University guide to the city of Bristol
bristol.ac.uk/citybristol

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