

University  
of **Bath**  
Undergraduate **Prospectus**  
2019



**TOP 5**  
Guardian 2018

**TEF Gold**

**SPORTS UNIVERSITY  
OF THE YEAR 2018\***

# Welcome to the University of Bath

At Bath we are known for excellence in both teaching and research; a superb student experience; and providing outstanding preparation for your work life. You will have a fulfilling time here, and a great future. We'll seek to challenge you intellectually and to inspire you; to open your eyes to the world; to give you confidence and help you develop as a person.

You will learn from top researchers and teachers who are leaders in their field. Outside of the lecture hall, seminar room or laboratory you will benefit from invaluable real-world work experience, courtesy of our renowned placements scheme. Over two thirds of our students undertake a placement, and we are one of the universities most targeted by Britain's best graduate employers.

Our vibrant campus, right on the edge of Bath, provides our students with world-class sporting, social and cultural opportunities. And the city itself with its sweeping crescents, striking architecture and melding of cultures, is the UK's only entire city on UNESCO's World Heritage list.

This prospectus is full of information about life here – but to find out what the University and our community is truly like, come and see for yourself. Our campus is always open.

**Professor Bernie Morley**  
Deputy Vice-Chancellor & Provost

**SPORTS UNIVERSITY  
OF THE YEAR 2018**  
The Times and The Sunday Times\*

**TOP 5**  
UK UNIVERSITY  
The Guardian 2018

**TEF** Gold

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# Why Bath?

## Your learning [pages 6-10 >>](#)

### Top-class teaching by leaders in your field

*The Guardian University Guide 2018* ranked us a **Top 5 UK University** and we were awarded a prestigious **Gold award** in the Government's Teaching Excellence Framework 2018. Furthermore, **87%** of our academic research was classed as **world-leading** or **internationally excellent** by the Research Excellence Framework assessment. Whatever you choose to study at Bath, you can be assured of innovative, research-led teaching from inspiring academics.



*"The varied methods of teaching at the University have greatly helped me in my understanding of the topics taught. All of it is preparing us for the world of work which will help immensely in the long run."*

James Ambler,  
MEng Civil and  
Architectural Engineering

*"There is a diverse and exciting range of societies on offer and they can really help to boost your employability. The groups share external company events and competitions, and host speakers to stimulate your entrepreneurial mind."*



Gina Tanzer,  
BSc Management  
with Marketing

## Your future [pages 11-13 >>](#)

### Helping your career take off

We are renowned for the success of our graduates in the workplace and were ranked 7th (out of 129 UK universities) for graduate prospects by the *Times* and *Sunday Times Good University Guide 2018*. **87%** of our UK-based undergrads move into top-level jobs compared to 71% nationally, with the average starting salary £4,500 higher than the national average. Two thirds of our students elect to go on our excellent Placements Programme as part of their degrees, making us one of the top two universities in the UK for placements take-up. We work with leading employers from a diverse workforce such as **Airbus, Cancer Research UK, Dyson, GlaxoSmithKline, Goldman Sachs, Lloyds Banking Group, L'Oreal, Microsoft, Unilever** and the **United Nations**.



## Your new home [pages 18-21 >>](#)

### A vibrant and inspiring place to be

Our friendly campus is set on the Cotswolds Way, just on the edge of beautiful Bath. Bath itself is the only entire UK city on **UNESCO's World Heritage List** and our modern, well laid-out campus complements its ancient heritage. We've invested almost **£250 million** on campus in the last five years. In addition to all the facilities on campus, Bath offers year-round cultural and social activities, with festivals, theatres, cinemas, independent shops, bars and restaurants.

*"There is plenty going on and the city is often buzzing with students. There are cinemas, plenty of shops, and loads of quirky places to eat and drink."*

Alice Findlay,  
BSc Management



## Outside your studies pages 22-27 >>

### Acquiring new skills, making new friends

You can get involved with over **200 student-led groups, clubs and societies** in our Students' Union. Covering arts, ethical, departmental, political, faith, cultural and recreational pursuits, there is something for everyone. We have extensive sports facilities on campus, including our Sports Training Village with its Olympic legacy swimming pool, and we have just been voted **Sports University of the Year** in *The Times* and *The Sunday Times 2018*. If sport isn't your thing, our new arts centre, The Edge, is a cutting-edge hub for performance and cultural events.



*"The Students' Union provides such a wide array of societies that are open to all. During Freshers' Week most societies had taster sessions, which really gave me a chance to explore and meet people with similar interests!"*

Zornitsa Markovska,  
BSc Physics



*"Coming to Bath from London I was worried that the university wouldn't be as cultural or diverse as I was used to. However, since coming, I have been amazed how diverse it actually is. From cultural societies to the food available, I feel completely at home at Bath."*

Daniel Hua,  
BSc Psychology

## Your global connections pages 14-17 >>

### Gain world-wide experience

A third of our students come from outside the UK and we have more than **100 different nationalities** represented here. There are lots of opportunities to study abroad too, as we have exchange agreements with partner institutions in a number of EU countries, as well as our **Worldwide Exchange programmes**, active in Australasia, North America, South America, South Africa and Asia. Our placement programme has links with over **3000 national and global employers** and, at the time of writing, more than **35,000** University of Bath alumni live and work outside the UK. So as a Bath graduate you know you will be joining a very globally-connected, dynamic community.



These students are just a few of our fantastic student bloggers, who write about their experiences at the University of Bath and share ideas and advice about starting university.

Whether you are looking for advice about writing your personal statement or making the most of open days, want an insight into what it's like to be a student at Bath, or you are worried about making new friends, budgeting or surviving Freshers' Week, find out what our students have to say:

[go.bath.ac.uk/student-bloggers](http://go.bath.ac.uk/student-bloggers)

**Bath Blogs**

# Your learning

Our mission is to deliver world-class teaching - educating our students to become future leaders and innovators. You will leave Bath as a resilient, well-rounded individual, equipped to deal with the outside world and any challenges it may bring.

**The University was awarded a prestigious Gold Award in the Teaching Excellence Framework (TEF) in July 2017. TEF is a comprehensive assessment of English universities introduced by government to help students make an informed decision when choosing their university, focusing on quality of teaching, learning environment, student satisfaction, and student outcomes.**

**A gold rating means your taught experience will be one of the highest quality found in the UK. So how did we achieve this?**

## Teachers, practitioners, peers

**At Bath you'll be taught by experts whose innovative research and cutting-edge discoveries directly inform your learning.**

Passion and enthusiasm for their subjects, stimulated by outstanding research, engage our teaching staff in the delivery of cutting-edge content that our students want to learn.

Many of our staff are active in research, in industry, and/or in the professions. This expertise and external involvement enriches our undergraduate curricula, teaching delivery, and wider learning environment.

Staff research interests commonly inform teaching across courses, especially in final-year options. Much of our research addresses practical challenges that are global in scope. Problem-solving is a key focus—often in partnership with business, industry, or the public and the voluntary sectors. 87% of our research is rated 'world class or internationally excellent' in the Research Excellence Framework.

## Learning environment

**Everyone has their own way of studying. At Bath you can find an environment that gives you the flexibility to learn in a way that's best for you.**

In recent years, we have invested in purpose-built learning environments including teaching buildings, informal learning spaces and laboratories. New facilities have included specially designed group-working spaces, a wider variety of learning spaces for classes of all sizes, and a greater capacity to record lectures for use in revision.

Alongside general teaching spaces we have many other cutting-edge facilities available to all. For example, our Sports Training Village is used not only by Sports studies students, but the whole University community.

We also have new specialist state-of-the-art facilities in departments such as the naturally-lit, double-height Architecture and Civil Engineering design studios, brand new Psychology observation suites, automatic motion capture studio and much more specialist equipment, giving you a great opportunity to put theory into practice.

## Transferable skills

**Across many subjects we have practical project-based learning, allowing students to put into practice everything they have learned in their time here, and apply it in a real-world setting.**

For example, in Mechanical Engineering, some students' final year business and design group project is to design and build a car to compete in the Formula Student Competition at Silverstone - Europe's most established educational motorsport competition.

Across the University we have extensive links with industry, professional bodies and non-governmental organisations (NGOs) around the world, and these are used to give you valuable insight into your chosen subject.

Our focus on both academic theory and practical skills means that you'll be well prepared for your future career, as well as having the skills to adapt to changes in the rapidly moving global marketplace.

## Student-centred learning

**Students join us with a passion for their chosen subject. We have built flexibility into our courses to allow you to follow your area of interest, without compromising on standards.**

We are proud of our innovative course design and the interdisciplinary learning opportunities we provide.

We work in close partnership with our award-winning Students' Union to enhance our students' experience and be responsive to their changing needs. We are constantly seeking to improve learning and teaching, acting on the feedback of our students to ensure their experience is as good as it can be.

Students make a major contribution to decision-making within the University as a whole, sitting on all statutory bodies and committees associated with learning and teaching and the student experience.

All of this contributes to our student success and strong student retention rate, which is much higher than the national average.



# Get ahead with skills at Bath

Our skills programme helps you to get the best out of your studies, enhance your employability and achieve success in the workplace.



As an undergraduate you will get free access to all our skills development opportunities, many of which run year-round. Offering a wide range of topics across four key areas – Academic Skills, Employability, Language Skills and Personal Skills, you can tailor your own development programme to fit flexibly around your studies.

Some examples of the skills you can develop include:

- Thinking critically to enhance your writing
- Managing information sources and literature effectively
- Creating well-written, clearly structured essays, reports and dissertations
- Giving polished and effective academic presentations
- Managing and analysing numbers, data and statistics
- Learning a new language or improving an existing one
- Using IT tools and resources efficiently.

Not only will these skills help you in your studies, you'll also be better able to compete for future employment and be well-prepared for the workplace. We provide a wide range of employability-focused activities including a range of workshops offering you the opportunity to learn how to:

- Write effective job applications and CVs
- Succeed at interview
- Secure an internship, placement or graduate role
- Manage your time
- Chair meetings
- Lead and manage projects
- Represent others.



To help meet your learning style, we offer skills development in a variety of different ways including:

- One-to-one tutorials
- Workshops, talks and presentations
- Short and semester-long courses
- Online resources and independent study

Our programme is designed to meet your academic and personal development needs. We regularly review our provision and use your feedback to inform the design of new opportunities.

For more information on skills, visit [go.bath.ac.uk/skills](https://go.bath.ac.uk/skills)

# Studying at Bath

We spoke to two of our students about their experience of learning at Bath. Here is what they said...



**Lowri Morgan,**  
Sociology 3rd year,  
from South Wales

## How did you feel before you started uni? Did that change when you got here?

**L:** I was sent a list of reading before I even started, which was a little bit daunting but it does help prepare you for what to expect. Everyone says it's such a big jump from school to uni, but it's not that bad really. I was scared of going to lectures and not knowing anyone, but everyone was in the same boat so it's not a big deal.

**M:** One of my flatmates was a biology first year too, so I had someone to walk to lectures with from the start. They try to pair people together in the same flat who have the same subject, which helps.

## What are the main differences you found between school and university study?

**L:** The main thing is really that you've chosen to do this, you've not been told you have to like at school. It's on you. On my course, you don't do a register like at school, so sometimes you feel like you don't NEED to go to that 9am seminar and just stay in bed... I did that a bit in my first year but really regretted it. I missed out on time with the lecturer that I could have really used.

**M:** There is more self-study here than at school. And more in second year than first. You have to research a bit more on your own too and it gets more in-depth as you progress.

I also have practical laboratory sessions, six hours per week in first year. I did quite a lot of lab work at school and it wasn't much different to that, just with more instruments and higher tech tools. The procedures we do are more intricate and you get less hand holding.

**L:** There's lots more freedom around learning here than at school. There are different tutors for each module so they're specialist in their subject. Alongside lectures, I have seminars which are so useful. It's great to have the opportunity to investigate a topic at a different level with an academic.



**Madeleine Reid,**  
Biology 2nd year,  
from Oxford

**M:** You can go to tutors with an essay plan and they will give feedback to make sure you're on the right track. It's really helpful, and my tutor is lovely. He is really thorough in marking, giving great feedback too. I love my tutorial group and get a lot out of it.

## Did you use any extra support like the Skills Zone?

**L:** I used the Writing Centre a lot. When I started they taught me how to include references in my essays properly. When I did my first 3,000 word essay I found it really hard to keep to the word limit! The Writing Centre helped me by identifying what I could cut down on.

**M:** I have library training sessions at the start of each year, where the subject librarian goes through how to access books, journals etc. I find these training sessions so helpful, as you use the library a lot for research. Any wobbles you have you can go to your tutor.

**L:** If you don't feel you can talk to your tutor, first years in my department get a Peer Mentor who is a student from second year. They can give you advice on which modules to take, homesickness, making friends, and everything else. It was such a great help.

## What online learning resources are available?

**L:** There are course e-handbooks online, which are lot of help. Moodle, which is basically the University's Virtual Learning Environment, is so straightforward to use.

**M:** All my lectures are recorded, and I can access them at any time online. If I missed something in my notes I can go back and check the video as it has sound too. Coming to Bath was ideal for me, I'd recommend it to anyone.



Find out more about our first year students' experience at Bath: [blogs.bath.ac.uk/students/category/first-year](https://blogs.bath.ac.uk/students/category/first-year) **Bath Blogs**







## The Library

Our 24-hour library plays an essential role in your learning

Situated at the heart of the campus, the library provides a variety of study spaces for group, individual and quiet work. With over 500 PCs, power points, copy, print and scanning facilities and wireless networking throughout, you'll be able to find a place to study that suits you best.

Our collections and services directly support your learning too: 360,000 printed books, 440,000+ electronic books, 24,000+ electronic journals, specialist databases, and digital versions of the University's PhD theses and academic publications. All available to you from anywhere, whenever you need them.

Specialist Subject Librarians are expert in the resources you need. They provide one to one help and support, as well as teaching you everything you need to know about library resources, services and information skills. To get you started, you'll receive a library introduction at the beginning of your studies, and further sessions as you progress through your course.

## Learning Commons

Comfortable and informal study space

Our Learning Commons are informal learning spaces. They are set up with tables, chairs and plenty of power sockets to suit independent study or group work with coursemates. You don't need to book these, just turn up with your laptop.

They have printing facilities, and usually a vending machine close by, for when you fancy a snack.

The Virgil Building Learning Commons is right in the city centre. There are group study spaces, bookable rooms, an IT suite and training rooms, as well as a café. It's got everything you need!



Find out what our students think:  
[go.bath.ac.uk/blog-study](http://go.bath.ac.uk/blog-study)

**Bath Blogs**

# Supporting you



Coming to university is a big change for everyone. Exciting as this new chapter is, you may need a little help along the way to make sure the transition to university life is as smooth as possible. Built around your needs, our support is there to do just that.

## Money advice

The Student Money Advice team provides a confidential service on all aspects of student finance, including hardship funding, budgeting and practical tips.

[go.bath.ac.uk/money](http://go.bath.ac.uk/money)

Email: [studentmoneyadvice@bath.ac.uk](mailto:studentmoneyadvice@bath.ac.uk)

## Disability advice

The Disability Service provides advice and support for students with any form of disability. This includes: mobility and sensory impairment; specific learning difficulties; autistic spectrum disorders; mental health difficulty; and long-term health conditions.

[go.bath.ac.uk/disability-service](http://go.bath.ac.uk/disability-service)

Email: [disabilityadvice@bath.ac.uk](mailto:disabilityadvice@bath.ac.uk)

## Childcare

Westwood Nursery provides quality campus-based care for children aged six months to school entry age. Places are subject to availability. Contact the Services Manager for further details.

Email: [nursery@bath.ac.uk](mailto:nursery@bath.ac.uk)

or Tel: +44 (0)1225 386518

## Faith

The University Ecumenical Chaplaincy Centre welcomes those of all faiths and no faith, with a Chaplain on call for students every week day. We have a Muslim prayer room on campus with washing facilities.

[go.bath.ac.uk/chaplaincy](http://go.bath.ac.uk/chaplaincy)

Email: [chaplaincy@bath.ac.uk](mailto:chaplaincy@bath.ac.uk)

## Health

The University Medical Centre and Dental Practice are situated on campus, providing a wide range of NHS services. You will need to register when you arrive here.

Medical Centre:

Dental Practice:

[www.umcbath.co.uk](http://www.umcbath.co.uk)

Tel: +44 (0)1225 789100

[go.bath.ac.uk/dentist](http://go.bath.ac.uk/dentist)

+44 (0) 1225 386065

## Wellbeing Service

Here to smooth out any bumps along the way when you start university life, our Wellbeing Advisers are on hand to help and support you. You can talk to a Wellbeing Adviser about anything - they work hard to create a safe and inclusive space. Welfare and wellbeing drop-in sessions are run every day. Wellbeing Adviser hours are 8am to 9pm\*.

[go.bath.ac.uk/wellbeing-service](http://go.bath.ac.uk/wellbeing-service)

*\*Hours may vary during weekends and University vacation.*

*Please visit our webpages for further information.*

## Counselling and Mental Health

The Counselling and Mental Health team can help you get the most out of your studies through individual and group support. All support is free and confidential and the team are able to cover a range of issues.

[go.bath.ac.uk/counselling-mental-health](http://go.bath.ac.uk/counselling-mental-health)

Email: [listening@bath.ac.uk](mailto:listening@bath.ac.uk)

## Students' Union support schemes

### Peer mentoring

Every first year student is assigned a Peer Mentor - a current Bath student who you can chat to about anything. They've already been through the same thing you're going through, so you'll always have someone to talk to who will understand.

[thesubath.com/peer-support](http://thesubath.com/peer-support)

### Nightline

Nightline is a confidential listening, support and practical information service run by trained students, for students. You can talk to them about anything - big or small - in confidence, remaining fully anonymous. They won't judge you or tell you what to do. They will simply listen. They are open 8pm - 8am every night of the semester.

Their telephone number is on the back of your library card.

Email: [listening@bath.nightline.ac.uk](mailto:listening@bath.nightline.ac.uk)

Skype: [bath.nightline](https://www.skype.com/join/bath.nightline)

[thesubath.com/nightline](http://thesubath.com/nightline)



Find out what our students think:  
[go.bath.ac.uk/blog-support](http://go.bath.ac.uk/blog-support)

**Bath Blogs**

# Your future

Bath is renowned for the success of our graduates in the employment market. In addition to our first class teaching, we provide an extensive range of support to help you launch your future career. We are one of the **top ten universities most targeted by Britain's top graduate employers**, because our students have a reputation for being excellently prepared for the workplace. (*High Flyers report 2016-17*).

## Developing our graduates' skills

Our Careers Service will support you from your first year through to graduation, and beyond.

We provide help with career planning and job search skills, including interview techniques, aptitude testing, applications, and honing your CV. We will help you to highlight what you do outside of your studies, in addition to your qualifications, as this helps a prospective employer know more about you, the person.

The Careers Service arranges up to 400 employer recruitment visits to the University each year - including career fairs. These visits are excellent networking opportunities to help you build connections and explore the career opportunities open to you.

[bath.ac.uk/careers](http://bath.ac.uk/careers)

## Open up global possibilities

Learning a language will increase your employability by opening doors to pursue your career across the globe and in international businesses.

You can choose to learn a new language, brush up on your existing skills or improve your English language proficiency by taking advantage of our wide range of free language opportunities.

We host weekly language classes, taught by qualified language teachers, where you will meet other students from all years of study and disciplines. You will also be able to practise your language skills informally, by meeting with international students in our Language Exchange programme or coming along to our regular Language Café.

[go.bath.ac.uk/skills](http://go.bath.ac.uk/skills)

## The Bath Award

Whatever you want to do when you leave university, chances are you will have to compete hard to win the best opportunities. The skills and experiences gained alongside your academic studies are being valued more and more by employers.

The Bath Award is a qualification which appears on your degree transcript, and provides potential employers with evidence of the skills you have developed in your time at university. The qualification is free to undertake, for all students.

Employers are now placing more emphasis on recruiting graduates who are also equipped with key transferable skills and have a desire to improve their capabilities during their time at university, and the Bath Award is a great way to show that you have these skills.

[thesubath.com/bathaward](http://thesubath.com/bathaward)

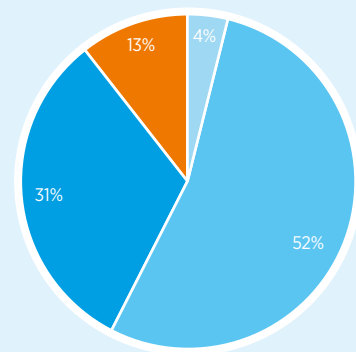


## Our graduates in the workplace

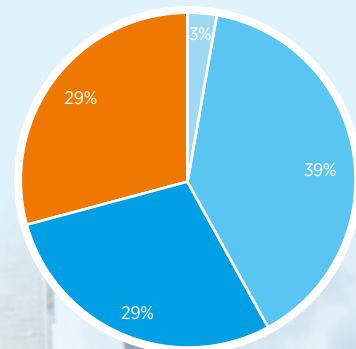
87% of our UK domiciled full-time first degree graduates are in jobs in one of the top three 'classes' of employment - Management, Professional and Associate Professional/Technical.

The mean starting salary for these graduates\* is £26,000 – which is £4,500 higher than the equivalent for all UK higher education providers.

University of Bath



All UK Higher Education Providers



- Managers, directors and senior officials
- Professional occupations
- Associate professional and technical occupations
- Other

\* Source: Destinations of Leavers from Higher Education Survey 2015/16; employed UK domiciled first degree full-time graduates.



# Placements

Our degrees with placements are designed to make you highly employable. You'll have the winning combination of academic knowledge and hands-on employment experience when you enter the job market.

Doing a placement as part of your degree can help you make better informed choices about your future career. You get the opportunity to create valuable contacts and develop your skills in the workplace. Many of our teaching staff comment on the improvement they see in academic attainment from students returning from a placement year.

Placement opportunities at Bath are varied and you will find something to suit you and your career plans. You could be working in a multinational corporation overseas such as Microsoft or CERN, be part of an exciting start-up or NGO, or work for a charity.

What makes the placement scheme at Bath stand out is the tailored support you receive from our Faculty Placements Teams. The teams in each faculty are specialists in your area of study, and will be on hand to provide advice and support from your first year onwards.

You will get the chance to have help working on your CV, undertake practice interviews, and find suitable placements. Whilst securing a role is your responsibility, we support you every step of the way.

Our placements teams work with many of the world's biggest organisations, and have developed a number of exclusivity agreements where companies offer places to Bath students only.



Name: Christian Woolf  
Course: Natural Sciences  
Company: Burberry fashion

*My work involved developing Burberry's Customer Relationship Management (CRM) programme. The new CRM is responsive and can anticipate future buyer activity. In order to do that we researched patterns of buyer behaviour. I also worked on analysing data to assist Burberry in making informed business decisions.*

*I loved being able to apply the skills I learnt from my degree outside of the lecture theatre. It was great to be able to make decisions that had real-world impact and measurable results.*

*I now realise how important practical work experience is once you graduate. I believe this placement has improved the value of my science degree.*

*I learned key skills that are transferable to my studies, and the experience has given me focus. I found my placement to be invaluable for both my degree and personal development.*

*I now know the sort of sectors I can see myself working in for the future. I would definitely consider working in the area of my placement. There are lots of exciting opportunities in the fashion industry.*



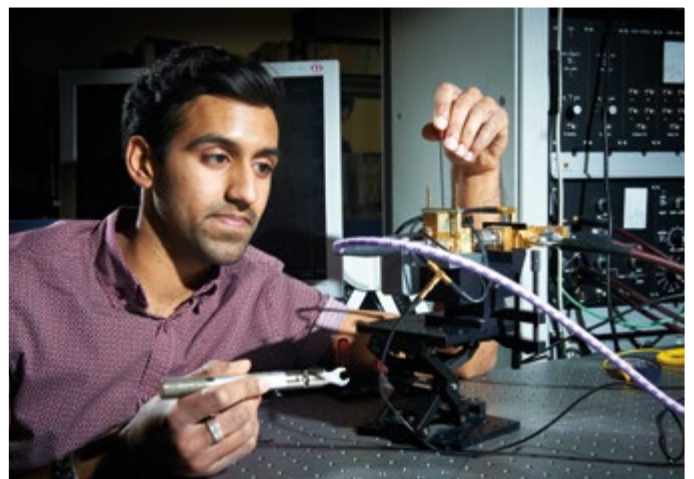
Name: Sarah Farr  
Course: Education  
Location: Jigsaw School for children with a diagnosis of Autistic Spectrum Disorder

*I worked as a Comprehensive Application of Behaviour Analysis to Schooling (CABAS) teacher at Jigsaw School in Cranleigh, Surrey for my placement. This is a specialist school for children with a diagnosis of Autistic Spectrum Disorder, and uses Applied Behaviour Analysis to teach and manage behaviour problems of students.*

*My responsibilities included one-to-one teaching, recording data on students' progress, providing personal care, and also giving weekly 'Topic' lessons to the whole class.*

*The placement experience was fantastic, and it is a great way to stand out against other graduates. As well as improving my skills working with challenging behaviour in students, I became more confident working in a professional environment and in a team.*

*My placement tutor was always available for an appointment to review my CV and cover letter, and also co-advise on the steps to take after a successful interview. Whilst on placement, I was visited by my placement tutor halfway through, which was useful to reflect on my work so far and set targets for the rest of the year.*





Name: Rob Huysinga  
Course: Business Administration  
Company: Start-up

*"It was so inspiring to spend my first placement in a startup and I'm very grateful to everyone who made it possible for me to make my own business my second placement!"*

As a Business Administration student Rob spent his second year placement working on marketing and strategy in a startup in London, and then in his third year placement at his own company, with entrepreneurial support from our School of Management and the University's Innovation Centre.

Rob and his friend Henry set up their ice cream business 'Pan-n-Ice' following a trip to Thailand, where they were amazed to discover ice cream could be made 'in front of your eyes' on a frozen plate. When they returned to the UK they set about researching ice cream business models, learning the craft and building a young, fun, fashionable brand that now has over 130,000 followers on Instagram.

To date, they have locations in Selfridges nationwide as well as Westfield shopping centre, and alongside this they have worked at some of the most exclusive private events the UK and Europe have to offer.

Now graduated, Rob is continuing his entrepreneurial journey supported by a donated 'Innovation Bursary'. The bursary will help support the development of Rob's young business for another year, to help his company fulfil its potential.



Name: Ilanna Rogers  
Course: Mechanical Engineering  
Company: Apex Circuit Design

*During my placement year I worked at Apex Circuit Design, a small specialist motorsport destination design consultancy based in Buckinghamshire. My year on placement involved in-depth CAD design on primarily CIK kart circuits, FIA and FIM race circuits and FIA rally cross tracks and surrounding infrastructure. Although I am studying Mechanical Engineering, I became quite involved with the civil engineering aspect, including discussions on surface build up and the creation of 3D ground models.*

*Another important aspect in day-to-day business was liaising with other staff members in addition to the clients and sub consultants. Being involved in live projects and having these varied tasks meant I learnt invaluable skills that can be applied once I am back at university. These include the use of new software, team work, effective communication and commercial design to state a few.*

*One of the highlights of my year was being given the opportunity to spend a day at Silverstone to complete an ARDS course which resulted in me receiving my national B racing licence. Consequently, I was allowed to participate in track days with the company BMW M3. During the year I went on two 'training' days, getting to drive around both Brands Hatch and Bedford Autodrome.*

*The placement has vastly improved my CV and I have gained invaluable experience within the engineering industry, making me more employable after university. I have also been fortunate enough to have been offered a job at Apex Circuit Design after I graduate, making the whole experience even more beneficial.*

*I would recommend when choosing a placement to first decide what you want to gain from the year and the type of industry that interests you. Then, always apply early and be open to something that you may not have thought of before. Never be put off by the size of the company, as I have found that by being placed within a small company meant more responsibilities and hence more experience gained.*



Find out what our students think:  
[go.bath.ac.uk/blog-placements](https://go.bath.ac.uk/blog-placements)

**Bath Blogs**

[go.bath.ac.uk/placements](https://go.bath.ac.uk/placements)

# Your global connections

Did you know you can study abroad as part of your undergraduate degree? Get to experience a new way of teaching; improve your communication skills and embrace a new culture. Alongside your improved language skills, you will be more marketable to future employers.



## Europe and the Erasmus+ Programme

The University has exchange agreements with partner institutions in a number of European countries and operates the European Credit Transfer System (ECTS) so your qualifications will be understood in other European countries. We also support the Erasmus+ programme which enables you to apply for funding to support your study abroad.

## Worldwide exchange programmes

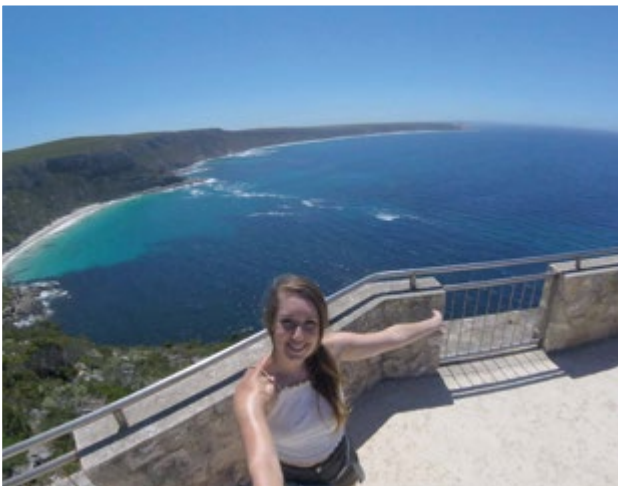
We have exchange agreements with partner institutions in Argentina, Australia, Canada, Chile, Hong Kong, Mexico, New Zealand, Singapore, South Africa, South Korea, USA and Uruguay.

[go.bath.ac.uk/study-abroad](http://go.bath.ac.uk/study-abroad)



Read about Emily Fallon's placement year and Zoe Martinez' Erasmus+ experience from these abridged versions of their 2017 blogs:

Emily Fallon, (BSc Sport and Exercise Science) spent her placement in Australia.



I have just got back from what's been a great 10 days at the Australian Institute of Sport (AIS) in Canberra.

A key part of being an intern or placement student is to have a proactive approach - seek out extra learning and networking opportunities, express interest in projects, and who knows what you could end up getting involved in!

This is exactly what I did at AIS when I first visited and, consequently, I ended up going back to help out as a lab assistant in a top sports nutrition study led by world class researchers and dieticians testing some of Australia's elite triathletes.

When I first arrived, I observed a performance trial, which was a simulated cycling race performed on stationary bikes in the lab. I then soon got really involved by assisting with taking blood from the athletes' during and after exercise for analysis and helping to run blood samples in the lab. I also assisted with the collection of gas from athletes to help determine whether they were metabolising carbohydrate or fat. After the testing, I collected ratings of perceived exertion, power output and heart rate to help quantify the session intensity.

Outside of the lab, I assisted the sports nutrition team too by helping to prepare and weigh snacks for the athletes on a strictly monitored diet. I also got to observe training sessions, ran by world famous coach Jamie Turner, which gave me an excellent insight to the life of a triathlete and the high demands of the sport.

Zoe Amador Martinez (French and ab initio Italian) spent a year abroad, split between a teaching placement in a little coastal town in Normandy, France and an Erasmus+ experience in Siena, Italy.

Today marks a month until I leave Siena, where I have been doing my Erasmus study exchange for five months as part of my Year Abroad. I don't want to leave. And I'm reflecting on all the things this year abroad has taught me.

More than the language side of things, I feel like my greatest achievement this year has been to discard my shyness and put myself out there. I had to do that when I first moved to England for university and, this year, I've had to do it twice, in completely different countries and I'm proud of myself for doing it.

It is much more about improving yourself than improving a language and it's up to you to challenge yourself. The best things I've gained this year are more confidence in myself and greater independence.

I've also realized that this year away is that it's not about the place you are in, it's about the people you meet along the way. It's an amazing opportunity to push your boundaries and to adapt to different lifestyles.

I've joined a student newspaper, acted in a French short film and given an improv speech in Italian!

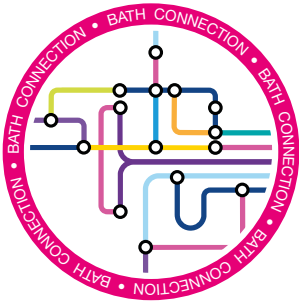
All in all, the Year Abroad is an opportunity to grow and have fun before the stress of final year. Hopefully you will also fall in love with the countries that host you and perhaps you will be back after you graduate.

Thank you everybody for making my Erasmus a great one!



# Making the Bath Connection

Network with graduates all around the world and receive careers support, CV advice and interview tips.



*"I am finding Bath Connection so useful and have already received lots of advice from people top in their field."*

Abena, Pharmacy student

Bath Connection is an online system which connects students with the wealth of expertise within our extensive graduate network. Through Bath Connection you will find profiles of thousands of graduates around the world to speak to, including high profile execs, start up owners and more.

From asking a quick question about working for a particular organisation to finding a mentor for ongoing support, you will learn from the experiences of someone who has 'been there already'. Everyone listed on the site is proud of their connection with the University, and wants to help you to succeed too.

Being a graduate of the University of Bath means being part of a global network, leveraging connections and developing your career.

[go.bath.ac.uk/alumni-bath-connection](http://go.bath.ac.uk/alumni-bath-connection)



Sonya Chowdhury did a BSc in Sociology and Social Work at the University of Bath in 1998. She is now CEO of Action for ME, the UK's leading charity for people with Myalgic Encephalomyelitis and their carers.

Sonya still lives in Bath and recently volunteered her time and expertise at one of our 'Get Connected' events for students and recent graduates.

She volunteered for Get Connected as she felt it was:

*"A great way to give something back but also to spark more interest in the voluntary sector which I have found so rewarding."*



Alumna Danielle Welch, who studied MEng Aerospace Engineering with French in 2007, made history in 2015 as the first – and last – woman to qualify as a Royal Navy ab initio Lynx helicopter pilot. She was awarded her wings by Prince Andrew.

Ab initio means training from start to finish in the same aircraft. She was the last woman to train in the helicopter as the squadron is being replaced with Wildcats.

She reflected :

*"This is something I have been trying to achieve for most of my life and when I found out I had been selected, it was brilliant. The course is tough. We started with six and ended up with four. Not everyone gets through it but to achieve it is wonderful."*

In 50 years we have welcomed more than 100,000 alumni into our community around the world, including around 500 remarkable men and women as honorary graduates.

Here are just a few of our most notable alumni and honorary graduates:



**David Bull CBE**  
(MSc Development Studies 1975, Hon LLD 2009)  
**Former Executive Director of UNICEF UK**



**Sir David Attenborough**  
(Honorary DSc 1981)



**Ash Atalla**  
(BSc Business Administration 1994)  
**TV producer responsible for The Office and The IT Crowd**



**Dame Maggie Smith**  
(Honorary DLitt 1986)



**Sir Ian McKellen**  
(Honorary DArts 2001)



**Tom Pellereau**  
(MEng Innovation & Engineering Design 2002)  
**Inventor and winner of The Apprentice**



**Sir Bobby Charlton**  
(Honorary LLD 2016)



**Amy Williams MBE**  
(Sports (Sports Performance) 2007, Hon LLD 2017) **Skeleton racer and 2010 Winter Olympics gold medallist**



**Jenson Button**  
(Honorary DSc 2016)

# International students

Over 100 nationalities are represented among our 3,500 international students and we embrace the diversity and multi-culturalism that our international students bring to Bath.

Starting university is a big step for anyone, and moving to a new country at the same time is an even bigger one. That's why our **Student Services team is here to support you along the way**. We will ensure that your transition to university is smooth and enjoyable.

## Before you leave for Bath

We will communicate with you regularly to help you plan for your journey to Bath, as well as advising you about life in the UK. We also suggest that you contact the British Embassy or High Commission/Consulate in your own country for advice for entry to the UK as a student.

If you are a national of the European Economic Area or Switzerland, you do not currently need immigration permission to enter the UK.

## Tier 4 visas

Many of our international students live outside the EEA and so will require a Tier 4 visa to study in the UK. We currently have around 2,500 Tier 4 students at the University of Bath.

It is important to seek advice early and prepare well for your visa application. Our Student Immigration Service is here to advise on all aspects of your Tier 4 visa application and to support you when you are here. We also offer 'check and send' appointments for visa applications.

The UK government site is also a helpful starting point at [www.gov.uk/tier-4-general-visa](http://www.gov.uk/tier-4-general-visa) and you can contact us direct: [go.bath.ac.uk/visa](http://go.bath.ac.uk/visa) or email: [student-immigration-advice@bath.ac.uk](mailto:student-immigration-advice@bath.ac.uk)

## Accommodation

All students, UK and non-UK, will need to submit an online application for accommodation once they have accepted an offer to study at the University. There are several great accommodation options to suit different needs and budgets, and more information can be found on pages 20 to 21.



Find out what our students think: [go.bath.ac.uk/blog-international](http://go.bath.ac.uk/blog-international)

**Bath Blogs**

## Extra support when you arrive

All our international students can expect a helping hand on arrival: we can collect you by bus from London Heathrow Airport and settle you into your new accommodation.

We organise a welcome programme of events for our international students, including information sessions, tours of the campus, city and social events

You can also speak to an adviser in person at one of our daily drop-in advice sessions in the Student Services Centre.

## Improving your English

If English is not your first language and you want to improve your language skills to help with your course, you may wish to apply for one of our pre-session courses. These run from January to September over a varying number of weeks, depending upon your level of English language.

These courses will help you to:

- communicate effectively in English
- develop your academic and study skills
- become a more independent and confident student.

You can find further information about pre-session courses, including dates and fees at:

[go.bath.ac.uk/pre-session-courses](http://go.bath.ac.uk/pre-session-courses)

## Get involved

We encourage all our students to get involved with activities outside of their lectures. Joining a society, a sports club or becoming a community volunteer are great ways to meet new friends, familiarise yourself with Bath and UK culture, develop your skills, and improve your conversational English.

[go.bath.ac.uk/international-students](http://go.bath.ac.uk/international-students)  
Email: [international-office@bath.ac.uk](mailto:international-office@bath.ac.uk)

## Skills development

Once you have started your degree you will have access to a comprehensive programme of skills development sessions, designed to complement your academic learning.

Find out more about the range of sessions on offer on page 7 or go to [go.bath.ac.uk/skills](http://go.bath.ac.uk/skills).

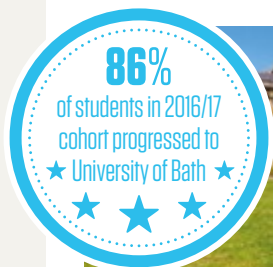




# International Foundation Year

The International Foundation Year (IFY) is a one-year course to prepare international students for entry to a University of Bath degree. From September until June you will study at our valued partner organisation, Bath College, to prepare you for your chosen undergraduate degree at the University of Bath.

Provided that you achieve the progression grades in the required subjects, you progress to the first year of your chosen undergraduate degree at the University of Bath the following September.



## What do I need to get on the course?

The IFY is suitable for those non-UK/non-EU students whose qualifications are not appropriate for direct entry, provided you have the required standard of English language (required for visa regulations).

You will need a minimum IELTS (or recognised equivalent) score of 6.0 with a minimum of 5.5 in each component for School of Management degrees, and 5.5 with a minimum of 5.0 in each component for other pathways.

## What will I study?

You will study three of the following academic subjects, depending on your chosen progression degree: **Biology, Business, Chemistry, Economics, English for Academic Purposes, Mathematics, Physics and Social Science.**



*"This course has been good for preparing me for degree level study. I think it would be too big a step to go straight from school to university. I've made friends with some students who are already studying mathematics at the University of Bath. It's been good*

*for me to learn about life in the UK too. I've joined a local sports club and I've also run in the Bath Half-Marathon race!"*

Austeja Petroskeviciute, target degree  
BSc Mathematics and Statistics

## How much contact time is there and how am I assessed?

There is an induction week at the start of the programme, then 30 weeks of taught classes and two exam weeks. Each week there are 21 timetabled hours, as well as time for independent study to support the classroom hours.

Typical **assessment methods** will comprise: coursework; written examination; practical work; oral assessment. Typical **delivery methods** will comprise: lectures; tutorials; laboratory sessions; online resources.

*"Bath is even better than I expected, it's small, beautiful and very friendly. The IFY classes were interesting and very different from school. It was good preparation for going to the University of Bath. I have had to learn to take care of myself for the first time and am lucky that the other students I share accommodation with are all very friendly and helpful"*

Berkay Heper, target degree, BSc Management

## How do I apply?

Applications are made directly to Bath College (you do not need to apply through UCAS) and you will find full details on the IFY website detailed below.

## What does it cost?

The tuition fee for the International Foundation Year starting in September 2019 will be published soon on the IFY website (tuition fees do not include accommodation, travel or living expenses).

## Where can I find out more?

All important information and contact details, can be found at: [www.bathfoundationyear.com](http://www.bathfoundationyear.com)

Alternatively, you can contact Bath College direct on **BathFoundationYear@bathcollege.ac.uk**  
tel. +44 (0)1225 328724



Find out what our students think: [go.bath.ac.uk/blog-international](http://go.bath.ac.uk/blog-international)

**Bath Blogs**

# Your new home

## Our campus

At Bath you will have access to excellent facilities for learning, accommodation, and leisure. We are continually investing in improving our campus. Bath is one of the safest campus sites in the UK, and the first university in the country to win a national police-approved security award.

In addition to our library, Sports Training Village, arts centre and award-winning Students' Union, we have much more all within five minutes' walk, including:

- Supermarkets
- Medical Centre
- Dental Centre
- Laundry
- Post Office
- Computer shop
- Sports shop
- Banks
- Restaurants, cafés and coffee shops
- Bars, pubs and a club
- Multi-faith Chaplaincy Centre and Muslim prayer room

From campus, you can hop on the bus (running 24 hours a day during term time) and explore the city centre.

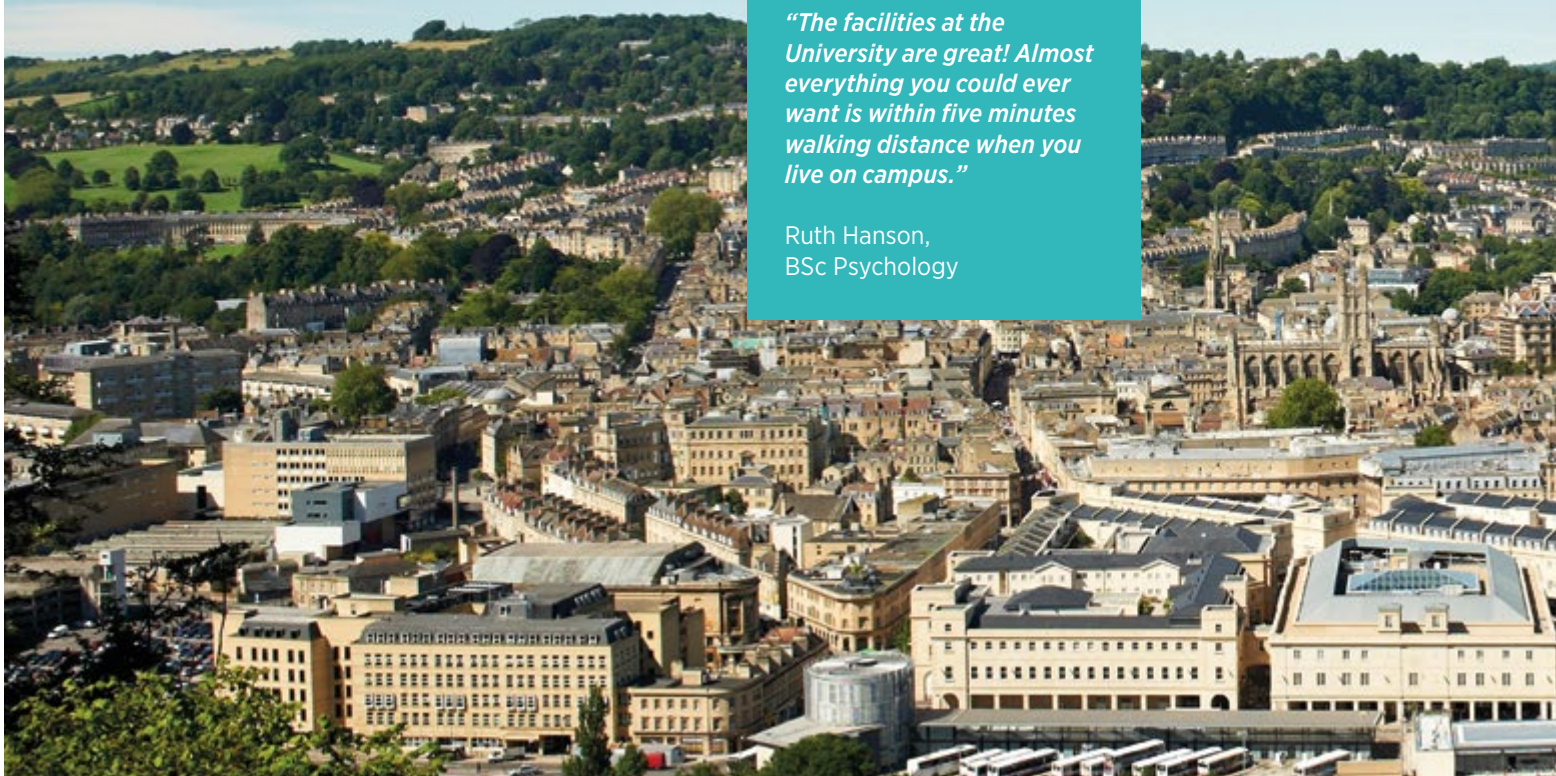
Find out what our students think:

[go.bath.ac.uk/blog-campus](http://go.bath.ac.uk/blog-campus)



*"The facilities at the University are great! Almost everything you could ever want is within five minutes walking distance when you live on campus."*

Ruth Hanson,  
BSc Psychology



# Our city

Renowned for its natural hot springs, striking architecture and fascinating history, modern Bath effortlessly blends the old and the new and offers something for everyone.

## Arts and culture

Bath has two cinemas and three theatres, including The Theatre Royal which frequently hosts plays straight from a West End run.

There are three large music venues including Komedia, the 2017 winner of Best Venue in West of England and Wales award, and the Pavilion, which often serves as a warm-up venue for acts on their way to Glastonbury. Bands that have played there include The Shires, Paloma Faith, Lily Allen, Oasis, and Coldplay.

There are also several nightclubs in Bath, plenty of pubs with open mic nights, and stylish cocktail bars playing tunes into the early hours.

## Food and drink

At the last count, Bath had over 400 restaurants and around 100 pubs and bars. That's not even counting the 100+ cafes and coffee shops!

While there are several well-known chains, Bath is all about promoting independent businesses, and new places pop up all the time. Restaurants and cafes have student promotions on throughout the year, so remember to keep your NUS card handy!

## Shopping

Bath's shops are scattered between the elegant Georgian parades, intriguing side streets and picturesque alleyways - all within easy walking distance of one another. Most of the high street stores can be found in the Southgate Centre, with quirky artisan and vintage shops just a ten minute walk away.

## Festivals and events

For a small city, Bath manages to host a huge amount of activities throughout the year. These include The Bath Festival (a ten day multi-arts event), The Film Festival, Comedy Festival, Literature Festival, Fringe Festival and Bath International Music Festival to name but a few.



Other events include the famous Bath Christmas Market, The Great Bath Feast, and our much-loved Bath Rugby Club hosts Premier League Rugby Union games throughout the season.

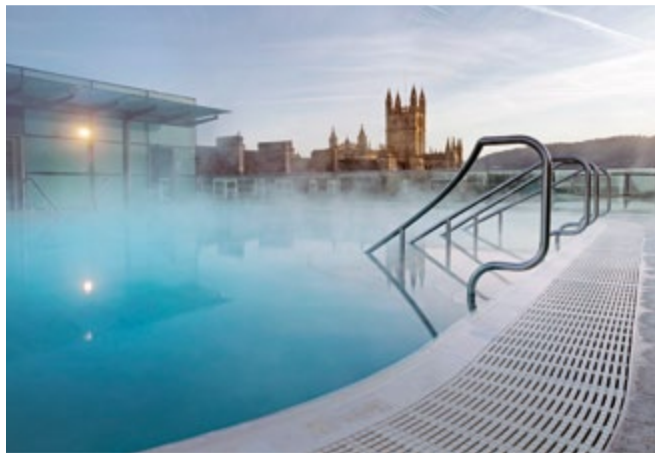
## Beyond Bath

Bath is surrounded by beautiful countryside and waterways. The Avon and Kennet canal is perfect for walking, running and cycling, and can be accessed directly from the city. The Two Tunnels Greenway trail opened in 2013 and takes you along a former train line and through one of the longest walkable tunnels in the UK.

If the sea calls, you can catch a direct train to both Weston-super-Mare and Weymouth for a day out.

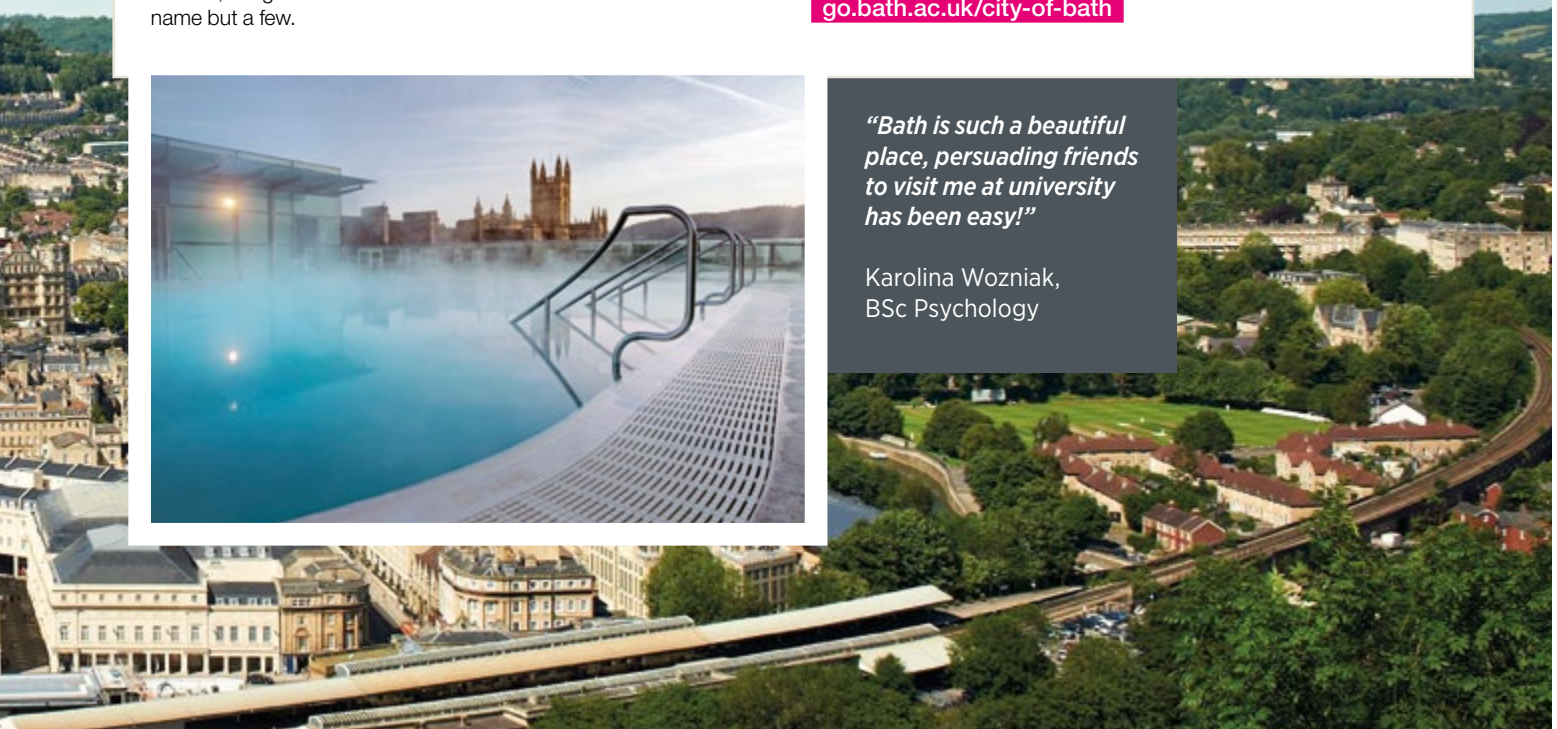
Want to explore a bigger city? By train it's just 85 minutes to London and 15 minutes to Bristol.

[go.bath.ac.uk/city-of-bath](http://go.bath.ac.uk/city-of-bath)



*"Bath is such a beautiful place, persuading friends to visit me at university has been easy!"*

Karolina Wozniak,  
BSc Psychology



# Accommodation

Choosing your accommodation is an exciting part of the student journey, helping you to quickly become part of our thriving student community.

## Our accommodation guarantee

We guarantee accommodation to all our full time Undergraduate students in their first year provided that we are your number one choice on UCAS, and your application is in before the deadline. We offer a range of rooms and set-ups to suit different budgets, living styles and needs.

## Applying for your accommodation

Once you've accepted Bath as your firm choice, you can apply for accommodation from early May in your year of entry. The exact date you can apply will appear online.

## About our accommodation

Three quarters of our first year accommodation is campus-based. The majority of accommodation is in self-catering houses or flats with student bedrooms grouped around communal kitchens or social spaces. You can apply to stay in catered or part catered accommodation where you can use our Eat and Drink Credit scheme at the cafés, bars or restaurants on, and off, campus.

All our accommodation options can only be accessed with secure access cards and have launderettes and secure bike storage nearby.

While groups are usually mixed gender, all-female or all-male accommodation can be arranged if you would prefer, subject to availability.

## Campus accommodation

All our campus accommodation is just a few minutes' walk away from the centre of campus, which is home to the library, lecture theatres and the Students' Union.

There are options to suit all tastes and budgets, from our Eastwood houses which offer fantastic communal living, to our state-of-the-art accommodation building, The Quads. Two of our accommodation options were featured in the 2017 top 50 student accommodation halls in the UK on the Times Higher Education website.

## City Centre accommodation

John Wood Building, John Wood Court and Carpenter House are the University's undergraduate accommodation options located in the heart of the City Centre. They are all self-catered and situated just minutes' from shops, cafes, restaurants, bars, pubs and attractions. All residences are located close to the railway station and bus station, making travel to the University quick and easy.

## Cost of our accommodation

For the 2017 academic year our accommodation prices started from just £70 for a shared standard room and £106.50 for a non-shared option. Our ensuite options started from £155. While these prices are likely to increase, we work hard to keep the costs, and contract lengths, as low as possible. Most our contracts are 38 weeks, so you aren't paying for accommodation when you no longer need it.

For the most up-to-date prices for each accommodation option, visit our website: [go.bath.ac.uk/accommodation-options](http://go.bath.ac.uk/accommodation-options)

You can find out more about our accommodation, and use 360 degree tours to explore the rooms at:

[go.bath.ac.uk/student-accommodation](http://go.bath.ac.uk/student-accommodation)

## Accommodation at-a-glance



- Over 4,000 bedrooms split over 12 buildings



- All accommodation prices include utilities, high speed WiFi, contents insurance, and paid TV licences where TVs are provided



- 24/7 security with a dedicated Accommodation Security team



- A Wellbeing Service that works within university accommodation to support new students

*"I have found student accommodation to be great. I think that you miss home a lot less than expected: at first it is new and exciting, and then it just feels like home and your flatmates are like family!"*

Jemima Smallwood, MPharm Pharmacy



## Finding your new home

We are always willing to listen, and after consulting with students we are pleased to be able to offer the following accommodation options:

### Alcohol-free accommodation

We can offer alcohol-free flats to new undergraduates subject to demand. If you choose this style of accommodation we ask that you and any guests keep the entire flat an alcohol-free environment. (You are allowed to store alcohol in your room and still drink alcohol when socialising outside of your flat).

You will not be placed in an alcohol-free flat unless you have specifically applied to do so.

### LGBTQ+ students

We understand that if you identify as LGBTQ+ you may be happier housed in specific accommodation.

### Mature student accommodation

If you are a new undergraduate aged 21 or over, you may wish to share with other mature students.

### Quiet accommodation

We offer designated quiet accommodation, subject to demand. In this accommodation we ask that you keep all noise to a minimum out of respect to flatmates and neighbours who have chosen to live in a quiet environment.

### Family accommodation

We are able to offer a limited amount of family accommodation in John Wood Building, one of our City centre buildings.

## What should you budget?

To help you work out what you will need, we've put together this rough estimate based on 2017/2018 entry:

### Accommodation

Rent, including utilities, in University accommodation is typically between £70-£180/week (not including meals).

### Course-related costs

In addition to the cost of text books you will need to cover the costs of photocopying, printing and binding at around £100 per year. Some courses involve visits away from University, and you may be required to pay the cost of travel, accommodation and subsistence. If undertaking a placement you will be responsible for your own travel, accommodation and living costs.

### Food

Around £35 to £60 per week.

### Social activities

From £10 to £40 per week.

### Personal costs

You will need to take into consideration costs of clothes, mobile phone, laundry, and trips home etc.

### Bus services

FirstGroup's UniBus service has a range of student offers to suit your needs, from discounted day returns to academic year passes.

[go.bath.ac.uk/money-blogs](http://go.bath.ac.uk/money-blogs)



Find out what our students think:  
[go.bath.ac.uk/blog-accommodation](http://go.bath.ac.uk/blog-accommodation)

**Bath Blogs**

# Outside your studies

The Students' Union is at the heart of student life at the University of Bath. The SU is a registered charity and everything we do is run by students, for students. We offer a wide range of student groups, services and activities to help you make the most out of your time at Bath.

## Groups

Whether you've spent years perfecting your yoga poses and want to take it to the next level, fancy trying something new like Ultimate Frisbee, or if you're simply keen to meet new people by bonding over the latest video games, then SU student groups have got it covered.

We have more than 160 student groups including, sport, societies, diversity and support, enterprise, media, politics and activism, postgraduate and international. All SU groups are open to every student.

## Experiences

Like most students, Bath students work hard and play hard. The SU gives you the chance to take on new adventures and explore all the opportunities that student life presents. There are so many opportunities to let your hair down and have fun, from music events, food fairs and cultural trips, through to the biggest and best club nights in Bath. The SU also runs the big, memorable events such as Freshers' Week and the renowned Summer Ball.

## Support

The SU has an independent Advice & Support Centre with professional advisors who are on-hand to guide and support you with any problems you may have during your time at Bath. They offer confidential, independent and non-judgemental, advice and support. There are also a number of support groups run by students who run campaigns and events for awareness or action purposes. The SU also offers peer support through peer mentors and peer assisted learning.

## Development

Your time at university is one to grow, develop and become the very best version of yourself. We encourage you to think ahead and start planning for the future as soon as you arrive, with part time jobs, volunteering, skills training and enterprise opening so many doors and introducing students to new experiences along the way.

## Your voice

Student representation is a big part of what The SU does; students tell us what they think and no matter how big or small, together we form part of a movement for positive change on campus and beyond. Students are encouraged to lead their own campaigns, become an academic rep to represent their course, join executive committees or even just voice ideas to improve The SU, University and the community.

Find out more: [thesubath.com](http://thesubath.com)

*"Getting involved with The SU is your chance to make your University experience the best it can possibly be. There are so many opportunities to try something new, help you meet friends, or get the support that you need throughout your time here Bath. The skills and experiences you create with us will last a lifetime."*

Ben Davies  
SU President 2017 – 2018





# Sport

We offer a fantastic range of sports, for the recreational and elite athlete alike. Our outstanding facilities and expertise are open to all, and we will work with you to achieve your goals.

**SPORTS UNIVERSITY  
OF THE YEAR 2018**  
The Times and The Sunday Times\*

\*Good University Guide 2018

We offer a huge range of recreational opportunities so everyone at the University can enjoy sport and exercise - regardless of ability.

We have one of the leading high-performance environments in Europe, hosting around 250 international-level athletes and national and regional squads across 10 sports.

We provide instruction and tuition in a range of activities. Our team of professional coaches, sports science, and sports medicine personnel work with a wide range of performers up to Olympic level.

Although we are open to the public there are dedicated times when only students can use our sports facilities. We have a student recreational sport programme (Bath Active), and offer personal development opportunities through coaching, volunteering and leadership schemes.

You will also have the opportunity to watch top sport on campus, as we play host to a range of high profile events including the Invictus Games GB team trials, European Modern Pentathlon Championships, Netball Superleague matches and Badminton England Championships amongst others.

[go.bath.ac.uk/sports](http://go.bath.ac.uk/sports)

## Our facilities

We have an extensive range of sports and recreation facilities for all students, whether you are part of a club or not. You will get a Sports Pass added to your library card when you start as a student here which gives you access to the Sports Training Village, Founders Complex and Sulis Sports Club (off-campus).

Take a look at what we have to offer:

- Newly-refurbished world-class gym
- New fitness suite opening in 2018, doubling our gym capacity
- 50m Olympic legacy swimming pool
- The UK's only outdoor bobsleigh/skeleton pushtrack
- A floodlit eight-lane all weather athletics track
- An indoor athletics hall featuring a 132m sprint straight
- Multipurpose sports hall including 12 badminton courts
- Eight-court indoor tennis hall plus four acrylic, four artificial clay and two clay outdoor tennis courts
- Hockey pitch
- All-weather pitch
- Several football and rugby pitches
- 300 square metre judo dojo
- Fencing salle including eight pistes
- 16-station air pistol range
- Two cricket squares and nets

Most of these are free to use but a charge may be made for some of the facilities, such as gym membership or membership of specific clubs.







## Sports Science and Medicine Team

The Physio and Sports Science Centre, located in the Sports Training Village, provides leading physiotherapy and massage services to athletes and the public. These services are available to students at a discounted rate. The Centre encompasses a range of services, including fitness and physiological testing, strength and conditioning support, sports nutrition advice, sports psychology, and video and performance analysis. Courses and workshops in various support service fields are also delivered during the academic year.

## Athlete support

The University is continually developing its range and quality of Sports Scholarships. In addition our Dual Career and Athlete Support Programme helps hundreds of athletes fulfil their sporting potential, by providing support from University 1st teams through to international level.

For further information please contact: [athletesupport@bath.ac.uk](mailto:athletesupport@bath.ac.uk)



## Students' Union sports\*

The SU offers a wide variety of sport; from competitive representation on behalf of the University, inter-halls and interdepartmental competitions, through to social and recreational activities. You will have access to volunteering and developmental opportunities, and can support or coach in any of our student-led sports clubs:

- **Athletic**
  - Athletics
  - Rowing
  - Swimming
  - Triathlon
- **Field**
  - American Football
  - Association Football and Futsal
  - Cricket
  - Golf
  - Hockey
  - Lacrosse
  - Riding
  - Rugby
  - Ultimate frisbee
- **Indoor**
  - Basketball
  - Boxing
  - Cheerleading
  - Cuesports
  - Darts Club
  - Dodgeball
  - Fencing
  - Floorball
  - Gymnastics
  - Handball
  - Latin and Ballroom Dance
  - Netball
  - Pool
  - Snooker
  - Trampoline
  - Volleyball
- **Martial arts**
  - Jiu Jitsu
  - Judo
  - Karate
  - Kickboxing
  - Taekwondo
- **Outdoor**
  - Archery
  - Cycling
  - Gliding
  - Motorsports
  - Mountaineering
  - Shooting
  - Skydiving
  - Snowsports
- **Racket**
  - Badminton
  - Squash
  - Table Tennis
  - Tennis
- **Watersports**
  - Canoe Club
  - Sailing
  - Surf
  - Water Polo

\*A fee may be charged for the use of some facilities and will be charged for membership of sports clubs. Please see our webpages for details.

*"The University offers me the support I need in order to combine my tennis commitments with my academic studies. As a dual career athlete, I am given the opportunity to access both world class sports and academic facilities every day."*

Emma Hurst, BSc Sports and Exercise Science



# Arts

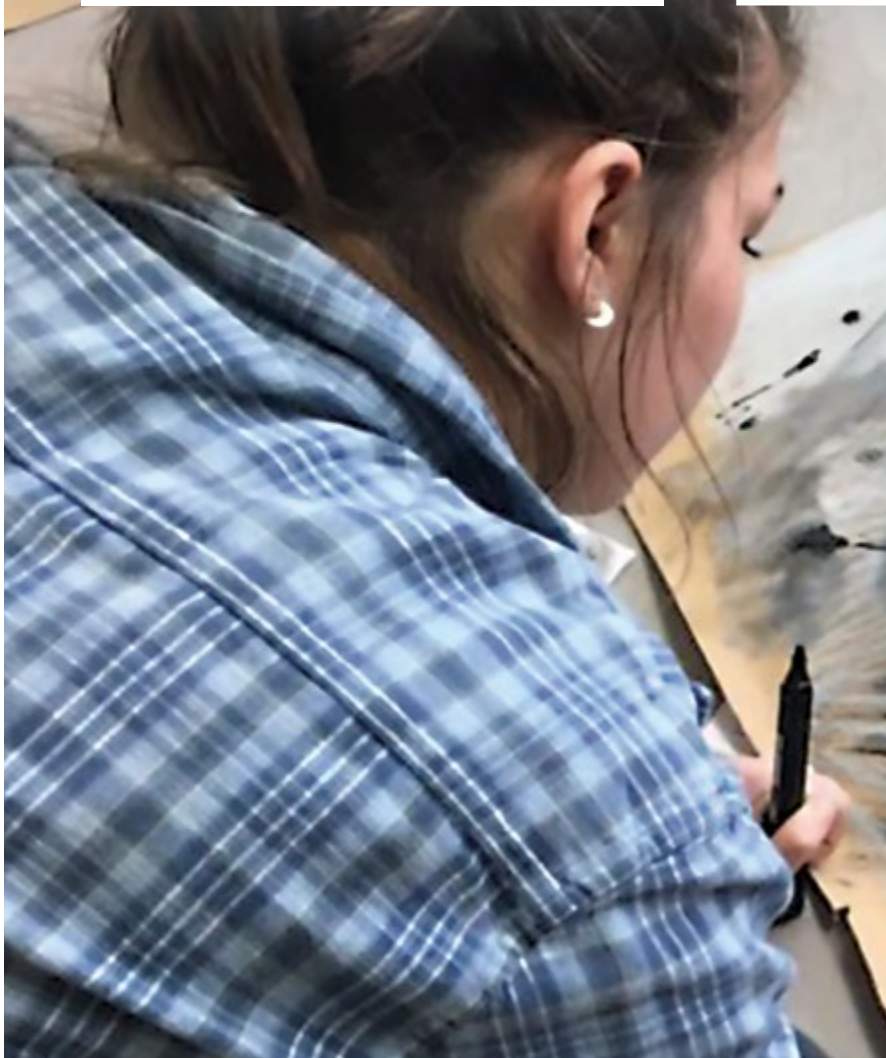
## The Edge: Art, Research, Adventure

The Edge is the hub of creative life on campus. Here you'll find opportunities to participate in arts, collaboration, and creative practice using top-class facilities. Classes are available in visual arts, music and dance, with purpose built rooms for rehearsal\* and gallery spaces to explore. Alongside your own creative pursuits, our professional programme encourages and nurtures art/research collaborations, from mechanical engineers and sculptors interested in moving structures, to architects working with artists, and inventors merging the lines between science and art.

The Edge Arts Community is exclusively for students, with opportunities to become more involved behind the scenes. Whatever your creative interests, The Edge is ready to assist you in realising them.

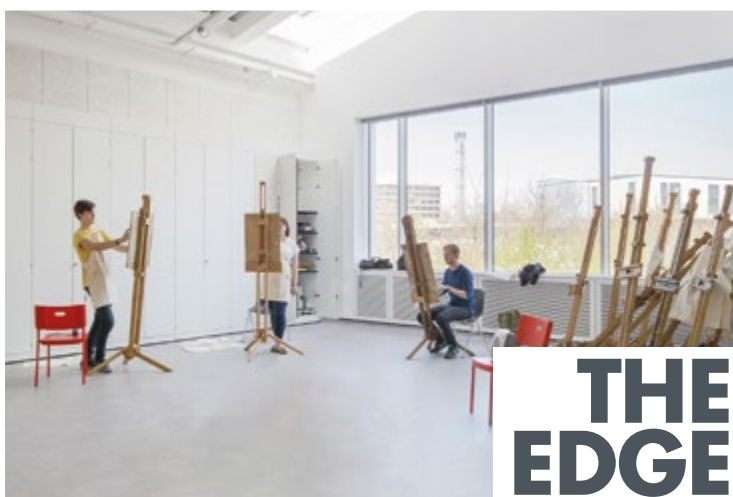
Edge Arts also offers a range of arts development platforms to facilitate excellence in creative ambition. Arts Scholarships, bursaries and awards are offered to support the best creative ideas and proposals. The Edge team also work alongside the Students' Union to provide space for the creative endeavours of student societies engaged with the arts, making the most of the fantastic facilities.

[edgearts.org](http://edgearts.org)



*"The Edge provides a great hub for arts on campus. For me, it's really provided a platform to continue practising my art alongside my degree, by taking part in their classes and impressive exhibitions."*

Isobel Tenison-Collins, BSc Natural Sciences with Industrial Placement



# THE EDGE

Brand new state-of-the-art facilities including music practice rooms, a purpose-built dance studio, three large galleries, theatre, performance studio and much more.



Find out what our students think  
[go.bath.ac.uk/blog-arts](https://go.bath.ac.uk/blog-arts)

**Bath Blogs**

\* A fee will be charged for some activities and events and the use of some facilities. Please see our website for details.

# Funding your studies

At the University of Bath we are committed to attracting the best and brightest students. We want you to benefit from everything a Bath education can offer, regardless of any financial constraints you may face. We are fortunate to be supported by a range of generous donors, many of whom are University alumni.

## UK students

UK Government support varies between nations. To find eligibility and application information for Government student loans or grants and other targeted support, refer to the online information:

### England

[www.gov.uk/student-finance](http://www.gov.uk/student-finance)

### Wales

[www.studentfinancewales.co.uk](http://www.studentfinancewales.co.uk)

### Scotland

[www.saas.gov.uk](http://www.saas.gov.uk)

### Northern Ireland

[www.studentfinanceneni.co.uk](http://www.studentfinanceneni.co.uk)

## EU and Islands students

EU/Islands undergraduate fees for students commencing study in, or prior to, 2018/19 will be the same as the UK undergraduate fee for the duration of their course. The UK Government has not yet issued guidance on the ongoing fee status of EU students entering UK Higher Education in 2019/20. We will update the fee information on our website once we have received this national guidance: [go.bath.ac.uk/ug-fees](http://go.bath.ac.uk/ug-fees)

## Overseas students

If your fee status is overseas, you will not normally be eligible for financial support from the UK Government. You must ensure that you have sufficient resources to cover your tuition and living expenses. The UK Council for International Student Affairs provides advice on fees, funding and student support for international students. See: [www.ukcisa.org.uk](http://www.ukcisa.org.uk)

### Tuition Fees 2018 entry

|  |         |
|--|---------|
| Home/EU/Islands (campus based courses)   | £9,250  |
| Home/EU/Islands (FdSc Addictions Counselling)  | £7,710  |
| Overseas (Faculty of Humanities and Social Sciences)<br><i>(Including BSc International Management and Modern Languages, NOT including BSc/MSci Sport and Exercise Science or BSc/MSci Physical Activity and Health)</i> | £15,900 |
| Overseas (School of Management)  | £17,700 |
| Overseas (Faculty of Engineering and Design, Faculty of Science)<br><i>(plus BSc/MSci Sport and Exercise Science and BSc/MSci Physical Activity and Health)</i>  | £19,800 |

For details of overseas fees for FdSc Addictions Counselling, please contact [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk)

## Tuition fee information

All students pay annual fees which cover tuition and some examination costs (re-examination fees are paid separately). Details of any course-specific costs are provided on individual course pages (see pages 33-123). The fees listed above are for the academic year 2018/19 only. Tuition fees are liable to increase annually for all University of Bath students.

## Home fees

Home fees are regulated by the UK Government and are liable to increase annually by an inflationary amount. We expect to charge the maximum fee permitted by the UK Government's regulations for each year of your study at the University.

## Overseas fees

You should budget for an increase of up to 5% for every further year of study. We will not increase your fees each year by more than this percentage and the amount will be set out on our fee pages by December for the following academic year.

## Placement and Study Abroad fees

A reduced fee is charged during your placement year/study abroad year. Placement fees for Home/EU undergraduates are currently capped by the Government at 20% of the full-time fee for work placements and 15% of the full-time fee for study abroad or if the placement is part of the Erasmus+ scheme (for information about Erasmus+ eligibility, please contact [erasmus@bath.ac.uk](mailto:erasmus@bath.ac.uk)).

Islands students are charged the same fees as Home/EU students. Overseas students pay a reduced fee during their placement year; the amount charged is dependent on the type of placement and programme undertaken. Please refer to [go.bath.ac.uk/ug-fees](http://go.bath.ac.uk/ug-fees) for full details.

For Home/EU/Islands students on thin sandwich courses the reduced fee is charged in the second placement period, normally in Year 3. For Overseas students on thin sandwich programmes the fees are pro-rata over the two placement years to reflect the periods of placement and full-time study.

Where a course offers an optional additional placement/study abroad period, usually in Year 4, please note this is not classed as a placement year for fees purposes and is subject to full fees. Please refer to [go.bath.ac.uk/ug-fees](http://go.bath.ac.uk/ug-fees)





### Bursaries and Scholarships

In 2018, our undergraduates will receive over £4 million in awards from the University.

Our scholarships and bursaries are typically paid directly into your bank account to help with your living or course-related costs.

For 2018, we have:

- The **Gold Scholarship Programme** worth up to £5,000 per year
- The **Bath Bursary** worth up to £3,000 per year
- Sponsored awards with **corporate partners** and **donors** worth up to £3,500 per year e.g. Lloyds, AB InBev, JP Morgan, Rotork, Moog
- **Arts** scholarships [www.edgearts.org/student](http://www.edgearts.org/student)
- **Sports** scholarships [www.teambath.com/athlete-zone/scholarships](http://www.teambath.com/athlete-zone/scholarships).

Awards are reviewed annually and new scholarships may become available. For the latest information and eligibility criteria for all of our awards, visit [go.bath.ac.uk/student-funding](http://go.bath.ac.uk/student-funding)

We will start sending out funding information emails to all our offer holders from early spring.

### The Gold Scholarship Programme

Up to 50 students per year have the opportunity to take part in this exciting scholarship programme. Established in 2016 to commemorate our 50th Anniversary it offers a £5,000 bursary per year of study (not including paid placement years), along with a range of activities to enhance your University of Bath experience and further develop your career aspirations.

#### Activities include:

- 50 hours of volunteering/fundraising/outreach each year
- Alumni mentoring
- Personal development, networking and skills training sessions
- Additional support with placements and internships
- Pastoral support networks

*“Everything fell into place when I found out I had been awarded a scholarship. My fortunes went from ‘not great’ to amazing in just 12 months. Being selected for a scholarship has definitely built my confidence.”*

Kieran Smith, BSc Social Work and Applied Social Studies

### Part-time work

As well as being a great way to get some extra money, part-time work experience can be really useful in gaining future employment. If you are already doing part-time work for a national company, it may be worth seeing if you can transfer to a branch local to Bath.

The University also employs over 2000 students in a variety of bars, cafés and shops on campus. Or you could become a Student Ambassador or Teaching Ambassador, supporting various outreach activities both on and off campus.

You can find out about local jobs and opportunities at [www.thesubath.com/joblink](http://www.thesubath.com/joblink)

Student Finance England and Save the Student are both good resources to learn more about student money: [www.gov.uk/student-finance](http://www.gov.uk/student-finance) and [www.savethestudent.com](http://www.savethestudent.com)

*“The benefits of working as an ambassador can hardly be exaggerated. The work is rewarding, interesting and well paid. Hours are scheduled flexibly and do not interfere with my learning. The experience and skills gained will look great on my CV and be highly valued in the graduate job selection process.”*

Oliver Au Yeung, BSc Politics with Economics

# Getting into Bath

People from all around the world apply to study at the University of Bath. We want to make sure that the process is as smooth as possible for you.

## Your application

Here at Bath, admissions decisions are made by a team of dedicated Admissions Selectors, whose job is to make fair and consistent decisions, reading and assessing each application in full. To provide the best possible service to you, you can get in touch with our team at any time.

## Interviews

We do not normally interview as part of our admissions process. However, we will interview where we need to assess suitability for a particular profession (such as Addictions Counselling, Pharmacy or Social Work courses) or if you are taking certain qualifications which are difficult to assess on a UCAS application alone (such as Access to HE Diplomas and some BTECs). If you are applying for our Sports Performance course you may also be invited to a trial as part of your application.

## Your personal statement

Your personal statement is an important opportunity for you to let us know more about you and why you have chosen your course of study. Our team of Admissions Selectors will read your personal statement in detail, and it is important that you demonstrate to us both why you are interested in your course as well as the skills you have gained to help you to succeed. The course descriptions in this prospectus, which tell you what the course is about and what it includes, may help you to decide what you want to write about and give you some inspiration to explore your chosen subject further.

For full details on what we are looking for in your personal statement we recommend you head online: [go.bath.ac.uk/personal-statements](http://go.bath.ac.uk/personal-statements)



This prospectus includes the details of a typical offer for students with either A levels (studied in the UK or internationally) or the International Baccalaureate, as these are the qualifications many of our students have studied. However, we accept a much wider range of qualifications for entry to our courses, such as **BTECs, Cambridge Technicals, Scottish Advanced Highers** and the **Access to HE Diploma** (within the UK) and many school leaver qualifications across the world including **Advance Placements (APs), the French Baccalaureate, the Indian Higher Secondary School Certificate (12th Standard), the Abitur, and the Titulo de Bachiller** amongst many others. Typical offers for many of these qualifications on our website, where you can find out what we might be expecting for your chosen degree: [go.bath.ac.uk/ug2019](http://go.bath.ac.uk/ug2019)

If we do not publish a typical offer for your qualification this does not necessarily mean that we will not accept it. In all cases, please contact the Admissions Team for more information: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk)

## Your project qualifications – EPQ and Welsh Baccalaureate

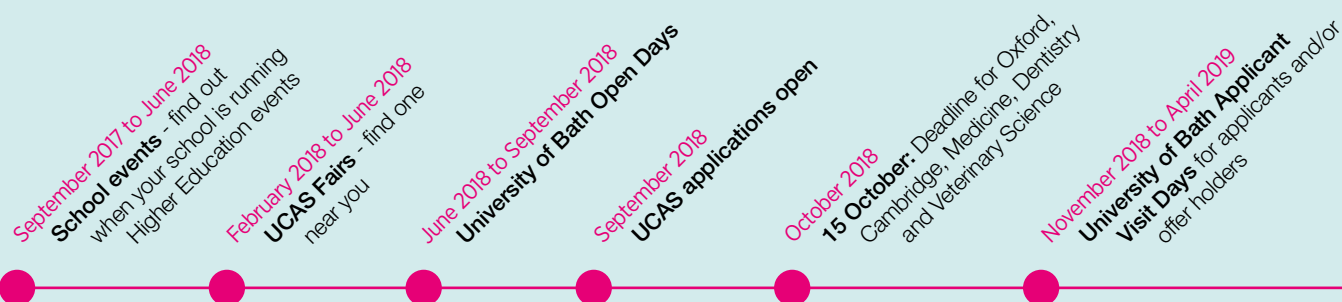
Project qualifications, such as the EPQ or Welsh Baccalaureate Skills Challenge Certificate, are an important way for you to gain and demonstrate useful skills which will prepare you for study at university. We want to recognise the value of these skills, and so, if you are taking A levels or the Cambridge Pre-U and are doing one of these project qualifications you will be eligible for both the typical offer listed here and an alternative offer including your project. The alternate offer is one grade lower than our typical offer (e.g. AAA instead of A\*AA) and you can secure your place if you meet either offer.

Project qualification offers are available for all our courses except Mathematics degrees – this is because we make alternative offers using STEP exams instead.

*“Project qualifications provide excellent preparation for study at university due to the independent writing skills and study that they help you to develop. They also support your transition to university-level study by developing time management and an approach to independent learning.”*

Mike Nicholson,  
Director of Admissions and Outreach

## Application timeline



### English language requirements

Every student has to prove they meet the English language requirement for their chosen course. To make things easier for you, we have grouped our courses into three categories based on the required English level, summarised in the below table. More accepted qualifications and further information is available online: [go.bath.ac.uk/english-requirements](http://go.bath.ac.uk/english-requirements)

|                   | GCSE or IGCSE | IELTS                                 | TOEFL IBT                             | Pearson PTE Academic       | IB Diploma   |
|-------------------|---------------|---------------------------------------|---------------------------------------|----------------------------|--|
| <b>Category A</b> | 6 or B        | 7.0 overall with 7.0 in all component | 100 overall with 27 in each component | 69 with 69 in each element | A pass in the IB Diploma including English taken at Standard or Higher Level |
| <b>Category B</b> | 4 or C        | 7.0 overall with 6.5 in all component | 100 overall with 24 in each component | 69 with 62 in each element |  |
| <b>Category C</b> | 4 or C        | 6.5 overall with 6.0 in all component | 90 overall with 21 in each component  | 62 with 59 in each element |  |
| <b>Category D</b> | 4 or C        | 6.0 with 5.5 in each component        | 87 overall with 19 in each component  | 58 with 55 in each element |  |

We generally only accept an English language qualification if you have completed it within 30 months of starting your degree (or 24 months for tests with an expiry date, such as IELTS, TOEFL IBT and Pearson PTE Academic).

### Your opportunities

We know that the opportunities available to you during your school career may be different from other students and your particular circumstances are important to us. As part of looking at each application as a whole, we not only consider your personal statement and predicted grades, but also the context in which you have been studying and the other qualities and experiences you have which will benefit you as a student.

We have dedicated staff in our Admissions Team who make sure the decision on your application fairly accounts for your socioeconomic and school or college background. We also take into consideration factors such as time spent in care, having a declared disability or refugee status. We never use this information to make either reduced or 'contextual' offers. However, we do use contextual information to help us decide whether or not we can make you an offer or confirm your place to study at Bath once you have received your results.

Separately, you may have experienced circumstances that have affected (or may go on to affect) your academic achievements. We always want to do our best to account for your individual circumstances, but can only do so if we are kept informed and aware. We would therefore strongly encourage you to get in touch using our dedicated form: [go.bath.ac.uk/mitigating-circumstances](http://go.bath.ac.uk/mitigating-circumstances)

### Mature students

We welcome applications from mature students, and you can find information about applying and studying as a mature student online: [go.bath.ac.uk/mature-students](http://go.bath.ac.uk/mature-students)

### Deferrals

We are happy to accept deferred applications, except for our Social Work and Addictions Counselling courses. This means that you can apply to enter following a gap year, or ask to defer your place after you have applied if your circumstances change.

### Joining university under age 18

If you are under 18 when your course starts the University will not have parental responsibility for you. Your parents or guardians will also be expected to complete additional forms which must be returned as part of the application process.



# Course finder

|  |   |   |
|--|---|---|
| <b>Accounting and Finance</b> 33                 | <b>Education</b> 66   | <b>Pharmacology</b> 96                              |
| Accounting and Finance 34                        | Education with Psychology 67                                | Pharmacology 97                                     |
| <b>Architecture</b> 35                           | <b>Electronic and Electrical Engineering</b> 68             | <b>Pharmacy</b> 98                                  |
| Architecture 36                                  | Computer Systems Engineering 69                             | Pharmacy 99   |
| <b>Biosciences</b> 37                            | Electrical and Electronic Engineering 70                    | <b>Physics</b> 100                                  |
| Biochemistry 38                                  | Electrical Power Engineering 71                             | Mathematics and Physics 101                         |
| Biology 39                                       | Electronic Engineering with 72                              | Physics 102   |
| Biomedical Sciences 40                           | Space Science and Technology 72                             | Physics with Astrophysics 103                       |
| <b>Business and Management</b> 41                | Electronic Systems Engineering 73                           | <b>Politics</b> 104                                 |
| Business Administration 42                       | Robotics Engineering 74                                     | Language and Politics 105                           |
| International Management 43                      | <b>Integrated Mechanical and Electrical Engineering</b> 75  | Politics and International Relations 107            |
| International Management and Modern Languages 44 | Integrated Mechanical and Electrical Engineering 76         | Politics with Economics 108                         |
| Management 45                                    | <b>International Development</b> 77                         | <b>Psychology</b> 109                               |
| Management with Marketing 46                     | International Development with Economics 78                 | Psychology 110                                      |
| <b>Chemical Engineering</b> 47                   | <b>Languages</b> 79   | <b>Social Work</b> 111                              |
| Chemical Engineering 48                          | Modern Languages and European Studies 80                    | Social Work and Applied Social Studies 112          |
| <b>Chemistry</b> 49                              | <b>Mathematical Sciences</b> 83                             | <b>Sociology, Social Policy and Criminology</b> 113 |
| Chemistry 50                                     | Mathematical Sciences 84                                    | Sociology 114                                       |
| Chemistry for Drug Discovery 51                  | Mathematics 85  | Social Policy 115                                   |
| Chemistry with Management 52                     | Mathematics and Statistics 86                               | Sociology and Social Policy 116                     |
| <b>Civil Engineering</b> 53                      | Statistics 87   | Social Sciences 117                                 |
| Civil and Architectural Engineering 54           | <b>Mechanical Engineering</b> 88                            | Criminology 118                                     |
| Civil Engineering 55                             | Aerospace Engineering 89                                    | <b>Sport, Exercise and Health</b> 119               |
| <b>Computer Science</b> 56                       | Integrated Design Engineering 90                            | Health and Exercise Science 120                     |
| Computer Science 57                              | Mechanical Engineering 91                                   | Sport and Exercise Science 121                      |
| Computer Science and Mathematics 58              | Mechanical Engineering with Manufacturing and Management 92 | Sport Management and Coaching 122                   |
| Computer Science with Business 59                | Mechanical with Automotive Engineering 93                   | Sport (Sports Performance) 123                      |
| <b>Counselling</b> 60                            | <b>Natural Sciences</b> 94                                  |   |
| Addictions Counselling 61                        | Natural Sciences 95   |   |
| <b>Economics</b> 62                              |   |   |
| Economics 63                                     |   |   |
| Economics and Mathematics 64                     |   |   |
| Economics and Politics 65                        |   |   |

All our courses are regulated by the Office for Students.

## Important information that you should know:

This prospectus is published for the guidance of students who wish to enter the University in the 2019-20 academic year. The information in the publication is correct at time of going to press. For the latest information about the University of Bath and its courses, see [go.bath.ac.uk/study2019](http://go.bath.ac.uk/study2019)

There may be occasions where due to unforeseen or unavoidable circumstances it becomes necessary to make significant changes to a course or to withdraw it or part of it, for example a particular unit/module. Such action could become necessary if for example the following were to occur:

- a member of staff leaves the University and we are unable to find a suitable replacement (e.g. with the requisite academic knowledge/experience);
- a professional body or regulator/accreditor requires changes to be made to a course or withdraws their accreditation of a course;
- changes have to be made to reflect legislative changes/requirements;
- changes have to be made to reflect changes in standards set by relevant regulators and/or in keeping with best practice or developments related to the particular discipline/subject area;
- student feedback clearly indicates that immediate changes be made to a course or unit;
- unexpected low recruitment to a course or unit/module means it is simply no longer viable or practical to run it.

Find out more about this and other important University terms and conditions: [go.bath.ac.uk/ugp-important-terms](http://go.bath.ac.uk/ugp-important-terms)



# Accounting and finance

**100%** student satisfaction (BSc (Hons) Accounting and Finance 4 year course) in the National Student Survey 2017

**Awarded Gold** for excellence in undergraduate teaching in the Teaching Excellence Framework

**2nd** for Accounting and Finance in The Times and Sunday Times University Guide 2018

#### Course for this subject

- Accounting and Finance

#### Accounting and finance combines the study of financial systems with the measurement and communication of this information.

Accounting and finance professionals are important to almost all functions of business. Learn to use your numerical abilities in a practical way to open up career opportunities in a wide range of sectors.

As well as a detailed understanding of financial systems, you'll develop your analytical skills. You can also gain a broad insight into other business areas including law, marketing and strategy.

In your final year you'll be able to apply for our International Academic Exchange programme - you'll gain international exposure by spending a semester studying abroad at one of our partner business schools.

If you choose our four year course, you'll be able to apply your skills in a practical business environment with a placement year. You will gain a distinct advantage in the graduate job market with this valuable experience.

The School of Management works with over 300 companies of all sizes across all business sectors.

#### Teaching

You'll learn from academics with expertise in accounting and finance. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

#### Careers

95% of our employed Accounting and Finance (four year) graduates are in a professional or managerial job within six months of graduating. Our average salary six months after the course is £29,000 - that's £5,000 more than the national average (Unistats 2018).

Recruiters include: Deloitte, Deutsche Bank, Goldman Sachs, KPMG, PwC and Royal Bank of Scotland. Many of our graduates continue their studies and pursue academic or research careers.

#### Have you thought about...?

- Business and Management - see page 41
- Economics - see page 63
- Economics and Mathematics - see page 64



"My degree gave me insight into many business areas. It enhanced my employability through knowledge but also by improving my confidence and interpersonal skills."

Rosalie Verge, BSc Accounting and Finance

## Accounting and Finance

NN34 | BSc (Hons) Three years  
 NN43 | BSc (Hons) Four years including placement year

**Gain a solid grounding in core management areas. You'll develop the knowledge and skills needed for a career in accounting, finance or business.**

Study one of the UK's top-ranked Accounting and Finance courses.

Year 1 covers the fundamentals of economics, finance and accounting. These core principles will provide context for the rest of your course.

From Year 2 onwards you'll specialise in accounting and finance, with a range of compulsory and optional units. Compulsory units will equip you with the contemporary knowledge and skills you'll need for a financial career. Final year units focus on advanced level accounting and finance.

After your first year, you'll be able to choose from a wide range of optional units. These let you explore other areas of interest like entrepreneurship, investment banking or leadership.

In your final year you can apply for our International Academic Exchange programme where you'll gain international exposure by spending a semester studying abroad at one of our partner business schools.

### Units

#### Year 1

- Introduction to business law
- Fundamentals of accounting
- Fundamentals of finance
- Introductory microeconomics
- Core skills for economists: introduction to statistics
- Core skills for economists: mathematics 1
- Introductory macroeconomics
- Business computing

#### Year 2

- Financial accounting and reporting
- Principles of finance
- Contemporary issues in accounting and finance practice
- Intermediate management accounting
- Advanced corporate finance
- Empirical finance
- Plus optional units

#### Placement year

#### Final year

- Optional units

Here are some examples of the units currently being studied by our students:

- UK tax and tax planning for the growing business
- Investment and trading
- Advanced macroeconomics
- Management consulting: data driven approaches
- Behavioural finance

### Professional accreditations and exemptions

Graduates are able to apply for professional qualification exemptions from:

- The Association of Chartered Certified Accountants (ACCA)
- Chartered Institute of Management Accountants (CIMA)
- Institute of Chartered Accountants in England and Wales (ICAEW)

### Placements

Apply your skills and knowledge in a practical business environment with a placement year. Placements are real jobs and usually paid. You will gain a distinct advantage in the graduate job market with this valuable experience.

Placement opportunities may not be guaranteed, but our dedicated Placements Team will liaise with employers, arrange interviews and help you apply.

The average UK salary of an accounting and finance placement student in 2017 was £22,000. The highest salary was £50,000. Recent employers include Goldman Sachs, UBS, EY and PwC.

### Assessment methods

- Coursework
- Written examination

### Delivery methods

- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 26% of your time in a lecture or seminar setting and 74% of the time in independent study. Your unit option choices will determine your future contact hours.

### Extra costs

If you choose to go on academic exchange in your final year you will have to pay for your own travel expenses and accommodation.

### Typical offer: AAA or A\*AB

### Entry requirements

#### GCSE

6 or B in English (or equivalent from category A – see page 30).

#### A level

AAA or A\*AB including A in Mathematics.

We prefer applicants who have studied both essay-based and numerical or analytical subjects at A level.

#### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in Mathematics.

You may be considered if you are taking Standard Level Mathematics.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/acc-fin](http://go.bath.ac.uk/acc-fin)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Architecture

**1st** for career after six months in the Guardian University Guide 2018

**1st** for Architecture in the Times and the Sunday Times Good University Guide 2018

**Awarded Gold** for excellence in undergraduate teaching

## Course for this subject

- Architecture

**Architecture is the practice of designing and building structures. Architects use science, art, technology and humanities to create built environments.**

Modern architecture integrates environmental and sustainable design principles with advanced technologies to produce functional and beautiful buildings. In our joint department, you'll work with civil engineering students to better understand how to build the spaces you imagine and design. Through complex design challenges, you'll explore what makes a good building and learn how cultural, historical and socio-economic factors influence design decisions.

## Teaching

You'll learn from academics with expertise in architecture and the built environment, including innovative materials and sustainable design. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

## Careers

Our course is fully prescribed and validated by the ARB and RIBA, giving you the educational basis and professional experience you need to complete the first step toward becoming a qualified Architect. Like many of our students, you can continue this journey with us on our Master of Architecture and RIBA part 3 courses.

A degree at Bath can open up a variety of career opportunities to you. The high standard of training in creative and analytical skills you graduate with will equip you to work in a range of industries.

95% of our architecture graduates are in employment or pursuing further study within six months of graduating (Unistats). You could also pursue a career in other design-related roles such as film-making or museum curation.

## Facilities

Our facilities are central to your study experience. Our 4 East South building opened in 2016 and houses purpose-built research and teaching space for our architecture students. You'll have 24/7 access to design studios that support your architectural work in drawing and modelling.

## Have you thought about...?

- Civil and Architectural Engineering - see page 54
- Civil Engineering - see page 55



"Our studio tutors and groups provide an encouraging atmosphere to learn and thrive in. My placements have prepared me for the working world and informed the basis of my future career path.

Joanna Burleigh, BSc Architecture

# Architecture

K100 | BSc (Hons) Four years with placements

## The professional training you need to practise as an architect, combining studio-based design with technical knowledge of materials and construction techniques.

Our course gives you the practical and creative skills you need to explore, analyse and communicate architectural proposals. You'll combine project work in design studios with a grounding in the historic and cultural theory of architecture. Through integrating science, mathematics and art, you'll learn how to control, manipulate and compose internal spaces and external forms.

At Bath, we focus your studies around studio work from the start. This is where you'll work collaboratively to produce integrated design solutions. And, more importantly, where you'll develop the practical skills to realise your creative potential.

Individual and group projects will challenge you to integrate the principles of structural, environmental and sustainable design into your work. Your knowledge of materials and the assembly of building elements will help inform how you approach design. Working with civil engineering students develops your understanding of the technical aspects of designing structures. This cross-discipline teamwork gives you an insight into the design problems and professional relationships you could experience in your career.

### Units

#### Year 1

- Design studio 1.1
- Design studio 1.2
- Building environment 1
- History and theory 1.1: vernacular architecture
- Structures 1A
- Detailed design 1
- History and theory of architecture 1.2: twentieth-century western architecture and design
- Practice, management and law 1
- Computer aided design 1

#### Year 2

- Design studio 2.1
- Structural and detailed design
- Environmental design
- Digital illustration
- History and theory of architecture 2: history of western architecture

Professional placement 1

#### Year 3

- Design studio 3.1
- History and theory 3.2: urban studies
- History and theory and architecture 3.1: Classicism and the foundation of modern design theory

Professional placement 2

#### Year 4

- Design studio 4.1
- History and theory 4: issues in contemporary architecture
- Practice, management and law 4
- Design studio 4.2

### Professional accreditations

- This course is currently prescribed by the Architects Registration Board (ARB), subject to period review, for the purposes of entry on to the United Kingdom Register of Architects.
- This course is fully validated by the Royal Institute of British Architects (RIBA) for the purposes of RIBA membership.

### Placements

Our course integrates two six-month placements into the second semesters of year 2 and year 3, making it easier for you to develop and transfer your skills between study and placement. You'll be able to apply your university learning in a practical context from an early stage and use your placement experience to feed into more mature designs later on your course.

You could go on placement at practices like FCB Studios, Kengo Kuma or Herzog & de Meuron.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Practical work
- Written examination

### Delivery methods

- Lectures
- Practical sessions
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 47% of your time in a lecture, seminar or practical/design studio setting and 53% of the time in independent study.

### Extra costs:

The following course-related costs are not included in your fees: Plotting of drawings, model making and the creation and binding of reports. You should allow for around £90 per year, payable as each drawing, model or report is required. Non-compulsory study visit to a European city: £250 payable at the start of your third year of study. This is based on current costs but may be subject to change.

### Typical offer: A\*AA

### Entry requirements

#### GCSE

6 or B in English (or equivalent from category A – see page 30).

#### A level

A\*AA in three A levels.

We prefer applicants who have studied the combination of Mathematics or Physics and Art or Design. Your offer can include Mathematics or Further Mathematics but not both.

#### International Baccalaureate

36 points and 7, 6, 6 in three Higher Level subjects.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/arch](http://go.bath.ac.uk/arch)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Biosciences

**Top ten** for graduate prospects for biological sciences in The Complete University Guide 2018

## Courses for this subject

- Biology
- Biochemistry
- Biomedical Sciences

**Biosciences is the study of living things from ecosystems down to their molecular interactions. It is a subject that has a significant impact on our daily lives.**

Modern Biosciences integrates knowledge and understanding of life over a range of scales and perspectives. You'll develop skills to analyse and interpret experimental data, drawing logical conclusions and asking sensible questions about areas of uncertainty and future research. You will also learn to effectively communicate your observations and evaluations to others.

## Teaching

You'll learn from researchers who specialise in different areas of the biosciences, including cell and developmental biology, evolution and biodiversity, infection and immunity, and medical and industrial biotechnology. Their international collaborations and interdisciplinary research activities feed directly into undergraduate teaching and contribute to your learning experience.

## Careers

You will develop the knowledge and skills enabling you to work in a variety of fields. These could include industries such as pharmaceutical, education, environment and biotechnology. You'll also be well suited to roles in agricultural, medical and chemical laboratories. Many of our graduates choose to go on to postgraduate study in preparation for academic or industry-based research careers.

The range of skills developed whilst taking a biosciences degree equips you for many other graduate careers, for example, business management and science teaching.

## Facilities

You will undertake practical classes in our well-equipped teaching laboratories, and will have access to specialist technology in a dedicated computer laboratory for bioinformatics. You'll be supported during your studies by regular small group tutorials and one-to-one meetings with a Personal Tutor. 91% of biosciences students agreed they had been able to contact staff when they needed to (National Student Survey 2017).

## Have you thought about...?

- Natural Sciences - see page 95
- Pharmacology - see page 97
- Sport and Exercise Science - see page 121



"The Biology course has really opened my eyes to the number of opportunities available to me once I graduate. Being taught by some of the top researchers in their fields has been truly inspiring."

Ellie McMullen, BSc Biology including placement year

## Biochemistry

C700 | BSc (Hons) Three years  
C703 | BSc (Hons) Four years including placement year

### Gain a fundamental understanding of life processes at a molecular level. You'll be prepared for a career examining the molecular basis of life.

Biochemistry involves solving biological problems through an understanding of the molecular basis of life. You will develop your knowledge, techniques and understanding at a fundamental level, preparing you for a wide range of academic, industrial and medically related careers.

In the first year, you'll study a broad introduction to biosciences. This will give you a foundation from which you will have the option to specialise in specific areas, such as neuroscience, cellular molecular biology, genomics and biotechnology. You will also gain hands-on experience of practical scientific techniques in dedicated undergraduate laboratories, as well as access to specialist technology in research labs.

In the final year, you'll undertake a research project, giving you first-hand experience as a researcher. Research areas include infection and immunity, industrial biotechnology, neuroscience and developmental biology. You'll learn from academics who are world-class experts in their field.

You'll graduate with a solid foundation for further study or graduate roles where a broader knowledge of molecular biosciences is needed. The academic and key skills you develop mean you will also be prepared for a vast array of alternative careers.

### Units

#### Year 1

- Practical research and academic skills
- Biochemistry 1
- Cell and molecular biology
- Genetics
- Introduction to biological chemistry
- Cell biology
- Biochemistry 2
- Proteins: purification and characterisation
- General chemistry

#### Year 2

- Protein structure
- DNA (making, breaking and disease)
- The dynamic cell 1
- Biochemical problems and bioinformatics
- Enzymology
- Practical molecular biology
- Plus optional units

#### Placement

#### Final year

- Final year project
- Protein synthesis, folding and turnover
- Plus optional units

Here are some examples of the units currently being studied by our students:

- Genomics 1
- Infection and immunity 1: microbiology
- Molecular genetics of vertebrate development
- Cell membranes
- Molecular immunology
- Enzymes: mechanisms, evolution and control in integrated biological systems

### Placements

You can gain a competitive edge in the graduate job market by taking a placement year. You'll work full-time in a role that might be undertaken by a graduate, where you'll broaden your experience and transferable skills. 97% of biosciences students agreed their placement was valuable in helping their learning (National Student Survey 2017).

You can choose from a wide range of roles to match your interests, from working in marketing for a pharmaceutical company to a lab-based role at a research institute. We have links with some leading employers including Cancer Research UK, GlaxoSmithKline, Public Health England, Lonza and the Science Technology and Facilities Council (STFC).

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Essay
- Multiple choice examination
- Practical work
- Seminar
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 27% of your time in a lecture, seminar or practical/lab setting and 73% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or A\*AB

### Entry requirements

#### GCSE

4 or C in Mathematics and 4 or C in English (or equivalent from category C – see page 30).

#### A level

AAA or A\*AB including A in Biology and Chemistry.

#### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in Biology and Chemistry.

You may be considered if you are taking Standard Level Biology.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/bio](http://go.bath.ac.uk/bio)

Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Biology

C100 | BSc (Hons) Three years  
C111 | BSc (Hons) Four years including placement year

### Develop the knowledge and skills to play a vital role as a practical scientist and interpreter of modern bioscience.

Gain a broad range of skills and knowledge by learning about life on all scales, from the molecular to global ecosystems. You'll study different topics in modern biosciences, ranging from molecular biology to ecosystems, as well as having the option to focus on a few specific areas.

In the first two years, you'll gain a foundation in the biosciences through a set of core units. You'll also gain hands-on experience of practical scientific techniques in dedicated undergraduate laboratories. In the final year, you'll undertake a research project, giving you first-hand experience as a researcher and the opportunity to contribute to some of the world-leading research in the Department.

Specialist teaching is influenced by the expertise of academics in the Department and include areas such as cell biology, biodiversity and ecology, evolutionary biology, genomics, plant science, microbiology and immunology. World-leading evolutionary research is also carried out in our new Milner Centre for Evolution, the UK's first ever centre for evolutionary biology research.

You'll graduate with a solid foundation for further study or graduate roles where a broader knowledge of biosciences is needed. The academic and key skills you develop will also prepare you for a wide range of other careers.

### Units

#### Year 1

- Practical research and academic skills for biologists
- Cell and molecular biology
- Genetics
- Ecology and evolution 1
- The life of Earth 1
- Cell biology
- The life of Earth 2
- Ecology and evolution 2
- Biochemistry for biologists

#### Year 2

- Practice of science
- Data interpretation
- Plus optional units

#### Placement

#### Final year

- Final year project
- Plus optional units

Here are some examples of the units currently being studied by our students:

- The dynamic cell 1
- Genomics 1
- Concepts in evolution
- Concepts in systems biology
- Infection and immunity 1: microbiology
- Plant biotechnology and the environment
- Sexual conflict

### Placements

You can gain a competitive edge in the graduate job market by taking a placement year. You'll work full-time in a role that might be undertaken by a graduate, where you'll broaden your experience and transferable skills. 97% of biosciences students agreed their placement was valuable in helping their learning (National Student Survey 2017).

You can choose from a wide range of roles to match your interests, from working in marketing for a pharmaceutical company to a lab-based role at a research institute. We have links with some of industry's leading companies. Recent employers include Lilly, Field Studies Council, Royal Botanic Gardens Kew, Oxford Gene Technology, AstraZeneca, Genesys and LifeArc.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Essay
- Multiple choice examination
- Practical work
- Seminar
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 30% of your time in a lecture, seminar or practical/lab setting and 70% of the time in independent study. Your unit option choices will determine your future contact hours.

### Extra costs:

Optional field course to Gower, South Wales: £300, or to Algarve, Portugal: £330, payable during the first semester of the second year. If you are in receipt of a University of Bath bursary these charges will be waived.

### Typical offer: AAA or A\*AB

### Entry requirements

#### GCSE

4 or C in Mathematics and 4 or C in English (or equivalent from category C – see page 30).

#### A level

AAA or A\*AB including A in Biology and a second science or mathematics subject.

#### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in Biology and a second science or mathematics subject.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/bio](http://go.bath.ac.uk/bio)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Biomedical Sciences

55TG | BSc (Hons) Three years  
1JKI | BSc (Hons) Four years including placement year

### Gain an understanding of human health and the causes, prevention and treatment of disease. You'll be prepared for roles in biomedical research.

This course is for you if you'd like to work in a field that tackles global health challenges such as curing cancer and Parkinson's disease. You'll be trained to be a research scientist of the future by exploring aspects of modern biosciences related to humans and medical research.

The curriculum covers a broad range of topics, including human genetics and genomics, physiology, cancer biology, pathology, anatomy, immunology, molecular and cellular biology, biochemistry and pharmacology. This course has been developed specifically for Biomedical Sciences students with the Department for Health at Bath to give you a greater exposure to subjects in human biology.

In the first two years, you will study a set of core units from the Departments of Biology & Biochemistry, Pharmacy & Pharmacology and Health. In the final year, you'll have the opportunity to carry out a research project within the Department of Biology & Biochemistry or Health. You'll also be able to choose from a broad range of final year units.

This course has a research career focus and is not intended for subsequent registration by the Health and Care Professions Council. Instead, you'll develop fundamental scientific and experimental skills, preparing you for work as a practical scientist in biomedical research.

### Units

#### Year 1

- Practical research and academic skills
- Human physiology
- Biochemistry 1
- Cell and molecular biology
- Functional anatomy
- Cell biology
- Biochemistry 2
- Human molecular genetics

#### Year 2

- DNA (making, breaking and disease)
- The dynamic cell 1
- Pathology
- Introduction to receptor biology
- Infection and immunity II: immunology
- Molecular medicine
- Medical microbiology
- Plus optional units

#### Placement

#### Final year

- Final year project
- Plus optional units

Here are some examples of the units currently being studied by our students:

- Human physiology in health and disease
- Pharmacology of the central nervous system
- Molecular and cellular neuroscience
- Cancer therapeutics
- Stem cell biology and regenerative medicine
- Genetic basis of inherited diseases

### Placements

You can gain a competitive edge in the graduate job market by taking a placement year. You'll work full-time in a role that might be undertaken by a graduate, where you'll broaden your experience and transferable skills. 97% of biosciences students agreed their placement was valuable in helping their learning (National Student Survey 2017).

You can choose from a wide range of roles to match your interests, from working in marketing for a pharmaceutical company to a lab-based role at a research institute. Recent employers include Cancer Research UK, GlaxoSmithKline, Pfizer Inc, Lilly, Sanofi and Anthony Nolan.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Essay
- Multiple choice examination
- Practical work
- Seminar
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 28% of your time in a lecture, seminar or practical/lab setting and 72% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or A\*AB

#### Entry requirements

##### GCSE

4 or C in Mathematics and 4 or C in English (or equivalent from category C – see page 30).

##### A level

AAA or A\*AB including A in Biology and Chemistry.

##### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in Biology and Chemistry.

You may be considered if you are taking Standard Level Biology.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/bio](http://go.bath.ac.uk/bio)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019



# Business and management

**1st** for Marketing in the Complete University Guide 2018

**2nd** for Business and Management Studies in the Complete University Guide 2018

**2nd** for Business, Management and Marketing in the Guardian University Guide 2018

#### Courses for this subject

- Business Administration
- International Management
- International Management and Modern Languages (Spanish/French/German)
- Management
- Management with Marketing



**Our business and management courses explore how organisations operate. They cover core disciplines such as marketing, operations management and leadership.**

Combining theory, practice and placements, our courses will give you an excellent working knowledge of business. Flexible course structures allow you to explore features relevant to your chosen career path.

You'll develop a broad set of skills and an understanding of the international business environment. You'll graduate with the skills and knowledge to help launch your career.

#### Teaching

You'll learn from academics with expertise in business and management. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

#### Careers

Our graduates have an excellent record of success. 85% of employed Business Administration and 100% of employed International Management with Modern Language students are in a professional

or managerial job within six months of graduating (Unistats 2018). Recruiters include: Accenture, BMW, Danone, GlaxoSmithKline, Google, Vodafone.

Our Management courses launched in 2014 and we do not have career data yet.

#### Have you thought about...?

- Accounting and Finance - see page 34
- Economics - see page 63
- Language and Politics - see page 105



"Each opportunity changed me in a positive way. I have enhanced my knowledge and become more aware of and confident in my own potential."

Stefana Covalciuc,  
BSc Business Administration

## Business Administration

N100 | BSc (Hons) Four years including placements

**This popular and practical course will prepare you for a variety of business roles. You'll gain a good grounding in business and develop transferable skills.**

This highly-ranked and flexible business degree is different from many others. You will complete two six-month placements with separate companies rather than 12 months with one. Experience of two roles will help you decide on your future career direction.

You'll also interact with businesses through practical research including the Final Year Project. You will enjoy teaching informed by the latest research and our industry links.

Year 1 covers the core subjects relevant for business. These principles will provide context for the rest of your course.

From Year 2 onwards you can customise your degree with optional units. These let you explore other areas of interest from a wide range of topics.

In your final year you can apply for our International Academic Exchange programme. You'll gain international exposure by spending a semester studying abroad at one of our partner business schools.

### Units

#### Year 1

- Introduction to business law
- Business and society
- Business economics
- Business data analysis
- People and organisations 1
- Accounting for managers
- Quantitative methods
- People and organisations 2
- Corporate finance and investment appraisal

#### Year 2

- Semester 1: **Six-month placement 1**
- Semester 2: Research project
- Plus optional units

#### Year 3

- Semester 1: Social entrepreneurship action project
- Semester 2: **Six-month placement 2**
- Plus optional units

#### Year 4

- Final year project
- Plus optional units

Here are some examples of the units currently being studied by our students:

- Business and marketing in a digital world
- Business-to-business marketing
- Doing business in China: opportunities and challenges
- Management consulting: data driven approaches
- Decision making

### Placements

Placements are real jobs and usually paid. The average salary in 2017 was £22,000 and the highest was £47,000. Placement opportunities may not be guaranteed, but our dedicated Placements Team will liaise with employers, arrange interviews and help you apply.

### Assessment methods

- Coursework
- Oral assessment
- Practical work
- Written examination
- Other

### Delivery methods

- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 27% of your time in a lecture or seminar setting and 73% of the time in independent study. Your unit option choices will determine your future contact hours.

### Extra costs

If you choose to go on academic exchange in your final year you will have to pay for your own travel expenses and accommodation.

### Typical offer: AAA or A\*AB

#### Entry requirements

##### GCSE

6 or B in Mathematics and 6 or B in English (or equivalent from category A – see page 30).

##### A level

AAA or A\*AB in three A levels.

We prefer applicants who have studied both essay-based and numerical or analytical subjects at A level. Your offer can include A level Mathematics or Further Mathematics, but not both.

##### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/mgt](http://go.bath.ac.uk/mgt)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# International Management

NN12 | BSc (Hons) Four years including year abroad

## Learn the key business functions and understand how they operate in a global context. Spend 12 months abroad and gain practical international experience.

Year 1 covers core subjects such as marketing, finance and operations. These principles will provide context for the rest of your course. During this first year, you'll study with Management and Management with Marketing students.

In Year 2 you'll develop your understanding of global business. You will study advanced subjects such as international market development and finance. Optional units allow you to explore other areas of interest.

In Year 3 you will go abroad for up to 12 months. You'll have the flexibility to choose a work placement, International Academic Exchange or a combination of both. Subject to approval, students can spend part of their year abroad in the UK working in an international context.

In your final year you will learn about strategy and to analyse objectives and policies of whole businesses.

## Units

### Year 1

- Business analytics
- Business context
- Accounting for managers
- Introduction to business economics
- Principles of organisational behaviour
- Introduction to the international business environment
- Introduction to managing people
- Introduction to finance
- Operations management
- Principles of marketing

### Year 2

- Foundations for international business
- Business and strategy in emerging markets
- Managing finance in a multinational company
- Managing the multinational enterprise
- Accounting and decision making for managers
- Managing across cultures and contexts
- Foundations of entrepreneurship and innovation
- Intermediate business analytics
- Plus optional units

### Year abroad

### Final year

- Strategy
- Entrepreneurship and innovation in the international context
- International strategy in practice
- Contemporary international business issues
- Plus optional units

Here are some examples of the units currently being studied by our students:

- International business law
- International marketing management
- Investment banking
- Advanced consumer research
- Privacy, trust and security in information systems

## Year abroad

We run academic exchanges with business schools in Asia, Europe, Australia, South Africa and North and South America.

Work placements are real jobs and are usually paid. You'll gain an advantage in the job market with this valuable experience. Placement opportunities may not be guaranteed, but our dedicated Placements Team will liaise with employers, arrange interviews and help you apply.

## Assessment methods

- Coursework
- Written examination

## Delivery methods

- Lectures
- Seminars
- Tutorials

## Contact time with staff\*

In your first year, you should expect to spend 31% of your time in a lecture or seminar setting and 69% of the time in independent study. Your unit option choices will determine your future contact hours.

## Typical offer: AAA or A\*AB

## Entry requirements

### GCSE

6 or B in Mathematics and 6 or B in English (or equivalent from category A – see page 30).

### A level

AAA or A\*AB in three A levels.

We prefer applicants who have studied both essay-based and numerical or analytical subjects at A level. Your offer can include A level Mathematics or Further Mathematics, but not both.

### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects.

## Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/mgt](http://go.bath.ac.uk/mgt)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## International Management and Modern Languages

NR21 | BSc (Hons) French Four years including year abroad

NR22 | BSc (Hons) German Four years including year abroad

NR24 | BSc (Hons) Spanish Four years including year abroad

### Learn to function effectively in an international business environment. Fulfil the current demand for business leaders with management and language skills.

This distinctive degree combines business and management with language skills. It is delivered by the School of Management and the Department of Politics, Languages and International Studies. You'll benefit from the expertise of two leading departments.

The first two years cover core management subjects while developing your language. We deliver several units in your chosen language and you'll learn about the country's business environment. This prepares you for your year abroad.

In Year 3 you will spend up to 12 months in a French, Spanish or German-speaking country.

In your final year you'll choose from a range of management units and continue to build your expertise in your chosen language.

### Units

#### Year 1

- French/German/Spanish written and spoken language 1A
- Business economics
- Quantitative methods and data analysis
- National business environment of UK - legal aspects
- French/German/Spanish business environment 1: economic and industrial environment
- French/German/Spanish written and spoken language 1B
- The UK macroeconomic environment
- Accounting for managers
- French/German/Spanish business environment 2: legal environment
- Political and social background of France/Germany/Spain

#### Year 2

- Contemporary politics and society of France/Germany/Spain and Latin America
- French/German/Spanish written and oral communication in the business context 2A
- People and organisations
- Principles of marketing
- European business environment: European integration and legal structure
- French/German/Spanish written and oral communication in the business context 2B
- French/German/Spanish comparative employee relations
- Plus optional units

#### Year abroad

#### Final year

- French/German/Spanish written and spoken language in the international business context 3A
- The internationalisation of business
- French/German/Spanish written and spoken language in the international business context 3B
- France/Germany/Spain and Latin America in the global economy
- Plus optional units

### Year abroad

You'll have the flexibility to choose a work placement, International Academic Exchange or a combination of both.

You will immerse yourself in social, political and cultural life during your year abroad, preparing you for a career in an international environment.

Work placements are real jobs and are usually paid. You'll gain an advantage in the job market with this valuable experience.

Placement opportunities may not be guaranteed, but our dedicated Placements Team will liaise with employers, arrange interviews and help you apply.

### Assessment methods

- Coursework
- Practical work
- Written examination

### Delivery methods

- Lectures
- Seminars

### Contact time with staff\*

In your first year, you should expect to spend 23% of your time in a lecture or seminar setting and 77% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAB or ABB

### Entry requirements

#### GCSE

6 or B in Mathematics and 6 or B in English (or equivalent from category A – see page 30).

#### French

**A level:** AAB including A in French.

**International Baccalaureate:** 36 points and 6, 6, 5 in three Higher Level subjects including 6 in French.

#### German

**A level:** AAB including A in German.

**International Baccalaureate:** 35 points and 6, 6, 5 in three Higher Level subjects including 6 in German.

#### Spanish

**A level:** AAB including A in Spanish.

**International Baccalaureate:** 36 points and 6, 6, 5 in three Higher Level subjects including 6 in Spanish.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/mgt](http://go.bath.ac.uk/mgt)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Management

N200 | BSc (Hons) Three years  
 N201 | BSc (Hons) Four years including placement year

**Develop advanced knowledge and skills in a range of business functions. Gain the practical experience you need for a variety of management careers.**

Year 1 covers the core subjects relevant for business such as marketing, accounting, finance and operations. These principles will provide context for the rest of your course. During this first year, you'll study with International Management and Management with Marketing students.

In Year 2 you'll build on this foundation, developing your knowledge of these subjects. You will be able to customise your studies with optional units. These let you explore other areas of interest such as digital marketing and management consulting.

In your final year you will study strategy and take part in the entrepreneurship project (optional on the four year course). You'll apply what you've learned to developing a business plan and putting it into action.

### Units

#### Year 1

- Business analytics
- Business context
- Accounting for managers
- Introduction to business economics
- Principles of organisational behaviour
- Introduction to the international business environment
- Introduction to managing people
- Introduction to finance
- Operations management
- Principles of marketing

#### Year 2

- UK business law
- Intermediate business analytics
- Managing the multinational enterprise
- Foundations of entrepreneurship and innovation
- Consumer psychology
- Managing finance in a multinational company
- Plus optional units

#### Placement year

#### Final year

- Entrepreneurship project (optional on four year course)
- Strategy
- International strategy in practice
- Plus optional units

Here are some examples of the units currently being studied by our students:

- E-business
- Corporate responsibility: principles and perspectives
- Virtual organising: understanding group behaviour online
- Doing business in China: opportunities and challenges
- UK tax and tax planning for the growing business

### Placements

Apply your skills and knowledge in a practical business environment with a placement year. Placements are real jobs and usually paid. You will gain a competitive advantage in the graduate job market with this valuable experience. We have links with over 300 companies of all sizes across a variety of sectors.

The average salary of a management student in 2017 was £18,000 and the highest salary was £35,000. Recent employers include Unilever, eBay, Zurich and Accenture.

Placement opportunities may not be guaranteed, but our dedicated Placements Team will liaise with employers, arrange interviews and help you apply.

### Assessment methods

- Coursework
- Multiple choice examination
- Written examination

### Delivery methods

- Lectures
- Seminars
- Tutorials

### Contact time with staff\*

In your first year, you should expect to spend 31% of your time in a lecture or seminar setting and 69% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or A\*AB

#### Entry requirements

##### GCSE

6 or B in Mathematics and 6 or B in English (or equivalent from category A – see page 30).

##### A level

AAA or A\*AB in three A levels.

We prefer applicants who have studied both essay-based and numerical or analytical subjects at A level. Your offer can include A level Mathematics or Further Mathematics, but not both.

##### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/mgt](http://go.bath.ac.uk/mgt)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Management with Marketing

NN25 | BSc (Hons) Four years including placement year

**Gain a solid grounding in the major areas of business practice. You'll also develop specialist knowledge and skills for a career as a marketing professional.**

Year 1 covers core subjects such as marketing, finance and operations. These principles will provide context for the rest of your course.

During this first year, you'll study with Management and International Management students.

In Year 2 you'll develop the depth of your marketing knowledge. You will be able to customise your studies with optional units. These let you explore other areas of interest such as business law and emerging markets.

In Year 3 you'll apply your skills and knowledge on a placement year. This will be a marketing role and is usually paid. You'll gain a competitive advantage in the job market with this valuable experience.

In your final year you will grow your marketing expertise with specialist units. You'll develop a product from a brief, prototype it, and plan a launch. These skills will help you to excel in a professional marketing role.

### Units

#### Year 1

- Business analytics
- Business context
- Accounting for managers
- Introduction to business economics
- Principles of organisational behaviour
- Introduction to the international business environment
- Introduction to managing people
- Introduction to finance
- Operations management
- Principles of marketing

#### Year 2

- Strategic marketing communications
- Brand management
- Consumer psychology
- Intermediate business analytics
- Project management
- Managing the multinational enterprise
- Foundations of entrepreneurship and innovation
- Plus optional units

#### Placement year

#### Final year

- Advanced advertising management
- Marketing and society
- Developing new products and services - theory
- International marketing management
- Business and marketing in a digital world
- Developing new products and services - practice
- Plus optional units

Here are some examples of the units currently being studied by our students:

- Corporate responsibility: principles and perspectives
- Depth psychology of the consumer
- E-business
- Business-to-business marketing
- Economics of strategy: rivalry

### Placements

Recent employers include Unilever, L'Oréal and HelloFresh. The average salary in 2017 was £18,000 and the highest was £22,000.

Placement opportunities may not be guaranteed, but our dedicated Placements Team will liaise with employers, arrange interviews and help you apply.

### Assessment methods

- Coursework
- Essay
- Oral assessment
- Practical work
- Written examination

### Delivery methods

- Lectures
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 31% of your time in a lecture or seminar setting and 69% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or A\*AB

### Entry requirements

#### GCSE

6 or B in Mathematics and 6 or B in English (or equivalent from category A – see page 30).

#### A level

AAA or A\*AB in three A levels.

We prefer applicants who have studied both essay-based and numerical or analytical subjects at A level. Your offer can include A level Mathematics or Further Mathematics, but not both.

#### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/mgt](http://go.bath.ac.uk/mgt)

Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Chemical engineering

**3rd** for course satisfaction in the Guardian University Guide 2018

**Top 5** for Chemical Engineering in the 2018 Complete University Guide

**Awarded TEF Gold** for excellence in undergraduate teaching

#### Course for this subject

- Chemical Engineering

## Chemical engineering benefits society and the environment by combining science, mathematics and engineering to develop new technologies, processes and products.

Chemical engineers change the world by transforming ideas into products and services in an ethical, safe, responsible and efficient way.

With a chemical engineering degree, you could make an impact by tackling important social challenges and improving quality of life. You could have a part in providing clean water and sanitation, recovering valuable materials and energy from waste, developing and delivering food, or improving healthcare and chemical products.

We've designed our courses to give you the specialist knowledge and transferable skills to pursue a challenging career in chemical engineering. When you graduate, you'll be able to adapt to a variety of roles in an evolving world and discipline.

### Teaching

Our department's great staff and student community provides a friendly and supportive environment to learn in. We deliver teaching complemented by guest lectures from practitioners to give you a professional and practical perspective on the subject. You'll learn from expert academic staff whose industrial collaborations, research and entrepreneurial activities feed into our teaching and contribute to your learning experience.

### Careers

By becoming a chemical engineer, you'll be able to make a valuable difference to the world around you. You could be part of building a better future through delivering clean water, designing greener products, or researching new ways to generate energy. You'll also be joining one of the highest-paid professions in the UK.

With a chemical engineering degree from Bath, you can be confident that you'll graduate with the specific engineering knowledge and transferable skills to help start your career. You could take on technical and managerial roles across industry and commercial sectors. For example, you could follow a career in alternative fuels, healthcare industries, water treatment, production of consumables such as

foodstuffs and toiletries in the fast moving consumer goods industries, and oil and gas.

### Specialist facilities

Specialist facilities are central to your study experience. Our laboratory facilities range from bench scale to pilot scale and are specially equipped to enhance your education in becoming a chemical engineer.

You'll have access to:

- our newly developed undergraduate teaching labs, containing continuous reactors, microbial bioreactors and a range of other bespoke equipment designed to highlight core chemical engineering concepts
- reaction engineering research labs where the next generation of sustainable products are being produced
- advanced separation research laboratories focused on the synthesis and characterisation of low-cost membrane technology
- high-spec biochemical engineering labs where the fuels and foods of the future are being developed

### Have you thought about...?

- Chemistry - see page 50
- Natural Sciences - see page 95
- Mechanical Engineering - see page 91



"I am more focused in terms of getting a job after university. I know more about what I want to achieve in my career, I have expanded my network and I have significantly more motivation."

Berenice Dalrymple, MEng Chemical Engineering with placement year

## Chemical Engineering

- H813 | BEng (Hons) Three years  
 H814 | BEng (Hons) Four years including placement year  
 H803 | MEng (Hons) Four years  
 H804 | MEng (Hons) Five years including placement year

### Gain the technical and professional skills to pursue a wide range of careers as a chemical engineer.

Our course gives you a thorough grounding in the principles and practices of chemical engineering. It develops your professional skills in engineering, mathematics, science, information technology, research, design, communication, and management.

Throughout the course, you'll reinforce lecture material with practical lab sessions, learning how to gather and analyse data to develop industrial strategies. You'll explore new technologies and gain a comprehensive understanding of process design. Your studies will give you the confidence to critically apply scientific and engineering principles.

You'll also develop transferable skills such as problem solving, teamwork and resource management. Integrating these with your technical knowledge, you'll learn how to tackle complex, and often ambiguous, engineering problems.

Projects are a key feature of your studies and a chance for you to develop scientific ideas from the bench scale to process scale. You'll apply your engineering knowledge to a full chemical process such as designing an anaerobic digestion plant, a water treatment facility for a refugee camp, or a biofuel production plant.

Choosing the MEng route gives you an advanced study experience where you can explore topics in more depth through a research project that can be completed at Bath, a university abroad or in industry. Topics include advanced separations, nanotechnology, biorefining, biomedical engineering, and catalysis. Graduating with an MEng also fulfils the educational requirements you need to become a Chartered Engineer.

#### Topics BEng route

- Advanced biochemical engineering
- Advanced chemical engineering
- BEng design project
- Bioprocess engineering fundamentals
- Chemical engineering principles (conservation, transformation & separation)
- Chemical engineering skills & practice
- Engineering thermodynamics
- Environmental management
- Mathematics
- Process dynamics and control
- Process management and economics
- Reaction engineering
- Safety and ethics
- Science for chemical engineering
- Separations processes
- Transport phenomena
- Optional topics

#### Topics MEng route

- Advanced biochemical engineering
- Advanced chemical engineering
- Advanced modelling
- Bioprocess engineering fundamentals
- Chemical engineering principles (conservation, transformation & separation)
- Chemical engineering skills & practice
- Engineering thermodynamics
- Environmental management
- Mathematics
- MEng design project
- MEng research project
- Particle technology and solids handling
- Process dynamics and control
- Process management and economics
- Reaction engineering
- Safety and ethics
- Science for chemical engineering
- Separations processes
- Transport phenomena
- Optional topics

#### Professional accreditations

- **BEng:** Accredited by the Institution of Chemical Engineers (IChemE) under licence from the UK regulator, the Engineering Council, for the purpose of partially meeting the educational requirements for a Chartered Engineer.

**MEng:** Accredited by the Institution of Chemical Engineers (IChemE) under licence from the UK regulator, the Engineering Council, for the purpose of fully meeting the educational requirements for a Chartered Engineer.

#### Placements

A placement gives you the chance to gain experience and develop skills in a commercial or industrial environment, and can count towards becoming chartered. The professional knowledge you gain can benefit the rest of your degree and improve your career prospects. It is also an opportunity to earn a salary during your degree.

Our students have worked at companies such as GSK, Unilever, Mondelez, Wessex Water, Biobean, BP and Exxon Mobil.

On our courses, you can decide whether you want to go on placement up until the end of your second year. Placement opportunities cannot be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

#### Assessment methods

- Coursework
- Essay
- Oral assessment
- Practical work
- Written examination

#### Delivery methods

- Computer-based learning
- Laboratory sessions
- Lectures
- Practical sessions
- Problem-centred learning
- Seminars
- Tutorials
- Workshops

#### Contact time with staff\*

In your first year, you should expect to spend 29% of your time in a lecture, seminar or practical/lab setting and 71% of the time in independent study. Your course options will determine your future contact hours.

#### Typical offer: A\*AA

#### Entry requirements

##### GCSE

4 or C in English (or equivalent from category C – see page 30).

##### A level

A\*AA including Chemistry and Mathematics with A\* in Chemistry or Mathematics (or Further Mathematics if applicable).

##### International Baccalaureate

36 points and 7, 6, 6 in three Higher Level subjects including Chemistry and Mathematics.

You may be considered if you are taking Standard Level Chemistry.

#### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/chem-eng](http://go.bath.ac.uk/chem-eng)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019



# Chemistry

**Top ten** for course satisfaction for chemistry in the Guardian University Guide 2018

**94%** student satisfaction rate in the National Student Survey 2017

#### Courses for this subject

- Chemistry
- Chemistry for Drug Discovery
- Chemistry with Management

#### Chemists study the synthesis, properties and structure of matter. Learn how to make the materials we use in our daily lives.

Explore a range of topics and move seamlessly between areas such as nanotechnology, drug development, forensics and new materials. You'll develop practical and interdisciplinary skills useful in a wide variety of careers. You can play your part in helping to understand and maybe even solve some of the critical issues of the 21st century.

#### Teaching

You'll learn from academics with expertise in all branches of chemistry, including organic, inorganic, physical and computational chemistry. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

You'll be supported during your studies by weekly small group tutorials with an Academic Tutor and regular one-to-one meetings with a Personal Tutor. 95% of chemistry students agreed they were able to contact staff when they needed to (National Student Survey 2017).

#### Careers

A wealth of career opportunities are open to you as a chemistry graduate. You'll develop the skills and knowledge to work in technical areas or scientific research and development in materials, pharmaceuticals, energy and the environment.

You'll also be well suited to broader roles in education, scientific publishing, administration, banking and finance. Many of our graduates choose to go on to postgraduate study in preparation for academic or industry-based research careers.

#### Facilities

You'll learn core experimental skills in our well-equipped undergraduate teaching laboratories. You can also access our Chemical Characterisation and Analysis Facility, and our Microscopy and Analysis Suite to familiarise yourself with spectroscopy and other techniques.

You'll receive a free lab coat and safety glasses to use throughout your course when you start.

#### Have you thought about...?

- Biochemistry - see page 38
- Natural Sciences - see page 95
- Pharmacology - see page 97



"Bath is a fantastic university if you are willing to work hard and try anything. It offers so much more than a simple degree, it gives you the chance to make yourself into whoever you want to be."

Jonathan Fred Markanday, MChem Chemistry including placement year

## Chemistry

|      |  |   |
|------|--|---|
| F100 |  | BSc (Hons) Three years                              |
| F101 |  | BSc (Hons) Four years including placement year      |
| F107 |  | BSc (Hons) Four years including study year abroad   |
| F103 |  | MChem (Hons) Four years                             |
| F104 |  | MChem (Hons) Four years including placement year    |
| F105 |  | MChem (Hons) Four years including study year abroad |

### Develop practical and theoretical skills across all areas of chemistry, leading to a broad range of chemical and non-chemical careers.

As a chemist, you can move seamlessly between areas such as forensics, drug development and nanotechnology. You'll be able to keep your options open on which area to specialise in until later in the degree. All of our chemistry degrees have the same core units in the first year which gives you the flexibility to switch courses.

In the first two years, you'll get a broad introduction to all areas of chemistry while developing the practical and theoretical skills modern chemists need. This includes understanding the theories of chemical behaviour and how they are applied. You will also develop skills in experimental chemistry and in designing experiments to test hypotheses. As well as becoming an expert in chemical science, you will be a numerate, critical thinker, well-prepared for a wide range of careers in research, academia and industry.

You can specialise in a particular field in later years through optional units and a final year project. You'll draw upon the expertise of academics in the Department and could even contribute to the world-leading research being carried out. You'll also have the opportunity to take part in public engagement events and work in schools.

The Master of Chemistry (MChem) provides you with the same core skills and knowledge of the bachelor's but with a greater exposure to research and advanced practical techniques, including a major research project throughout the final year.

### Units BSc route

#### Year 1

Atomic structure, bonding and the Periodic Table; Fundamentals of organic chemistry; From molecules to materials; Foundation chemistry laboratory; General practical chemistry; Plus optional units

#### Year 2

Inorganic synthesis, structure and reactivity; Organic synthesis, reaction mechanisms and spectroscopy; Principles of physical chemistry; Inorganic chemistry laboratory 2; Analytical chemistry; Physical chemistry laboratory 2; Computational chemistry laboratory; Organic chemistry laboratory 2; Symmetry and group theory; Introduction to computational chemistry

#### Placement/study abroad

#### Final year

General chemistry; Advanced practical chemistry; Topics in inorganic chemistry; Topics in organic chemistry I; Topics in physical chemistry I; Plus optional units

Students must select one of the following project choices: Dissertation; University ambassadors scheme: science; Chemistry project; Engaging the public in chemistry research

### Units MChem route

#### Year 1

Atomic structure, bonding and the Periodic Table; Fundamentals of organic chemistry; From molecules to materials; Foundation chemistry laboratory; General practical chemistry; Plus optional units

#### Year 2

Inorganic synthesis, structure and reactivity; Organic synthesis, reaction mechanisms and spectroscopy; Principles of physical chemistry; Inorganic chemistry laboratory 2; Analytical chemistry; Physical chemistry laboratory 2; Computational chemistry laboratory; Organic chemistry laboratory 2; Symmetry and group theory; Introduction to computational chemistry

#### Year 3

General chemistry; Advanced practical chemistry; Topics in inorganic chemistry I; Topics in organic chemistry I; Topics in physical chemistry I; Analytical chemistry in context; Chemistry project; Plus optional units

#### Placement/study abroad

#### Final year

Advanced chemistry research; Advanced structural and theoretical methods; Preparation for chemistry research; Topics in inorganic chemistry II; Topics in organic chemistry II; Topics in physical chemistry II; Topics in computational chemistry; Plus optional units

### Professional accreditations

- Accredited by The Royal Society of Chemistry for partially meeting the academic requirements for Chartered Chemist (CChem).

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/chem](http://go.bath.ac.uk/chem)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

### Placements

Apply your skills and knowledge to a year working in industry. You'll be employed full-time in a role to match your future career ambitions. It will broaden your experience and transferable skills, giving you a competitive edge when applying for graduate jobs. We have links with some of the industry's leading companies. Recent employers include GlaxoSmithKline, Syngenta, AkzoNobel and Pfizer.

### Study abroad

Broaden your horizons with a year studying at a university abroad. You'll experience another culture whilst studying a course that complements your studies at Bath. We have links with universities in the United States, Canada, Australasia, Asia and Europe, including the Simon Fraser University, National University Singapore, University of Western Australia and the University of Helsinki.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement or study year abroad.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Written examination

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 36% of your time in a lecture, seminar or practical/lab setting and 64% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or AAB

### Entry requirements

#### GCSE

6 or B in Mathematics and 4 or C in English (or equivalent from category C – see page 30).

Our typical offer varies depending on how much science and mathematics you study in your A levels or Higher Level subjects.

#### A level

AAB including A in Chemistry plus two subjects from Biology, Further Mathematics, Mathematics and Physics.

AAA including Chemistry plus one subject from Biology, Further Mathematics, Mathematics or Physics.

#### International Baccalaureate

36 points and 6, 6, 5 in three Higher Level subjects including 6 in Chemistry plus two subjects from Biology, Mathematics and Physics.

36 points and 6, 6, 6 in three Higher Level subjects including 6 in Chemistry plus one subject from Biology, Mathematics or Physics.

You may be considered if you are only taking Higher Level Chemistry with Standard Level Biology, Mathematics or Physics.

## Chemistry for Drug Discovery

|      |  |   |
|------|--|---|
| F151 |  | BSc (Hons) Three years                              |
| F152 |  | BSc (Hons) Four years including placement year      |
| F153 |  | BSc (Hons) Four years including study year abroad   |
| F154 |  | MChem (Hons) Four years                             |
| F155 |  | MChem (Hons) Four years including placement year    |
| F156 |  | MChem (Hons) Four years including study year abroad |

### Combine your passion for chemistry with a desire to make a real contribution to the world of pharmaceuticals.

You'll gain a solid foundation in chemistry which you will use to understand how drugs and medicines are designed and made, how they work and why they are successful. Major pharmaceutical companies have contributed to the design of the course so you can be sure that you will gain experience in areas that are of interest to industry. Our chemistry degrees have the same core units in the first year giving you the flexibility to switch courses.

You'll gain an in-depth knowledge of the pharmaceutical industry as well as the skills to carry out experimental and computational drug discovery projects. The broad range of topics covered will give you the option of a career in the pharmaceutical industry as well as a wide range of careers in research, academia and industry.

The Master of Chemistry (MChem) provides you with the same core skills and knowledge of the bachelor's but with a greater exposure to research and advanced practical techniques, including a major research project throughout the final year.

#### Units BSc route

##### Year 1

Atomic structure, bonding and the Periodic Table; Fundamentals of organic chemistry; From molecules to materials; Foundation chemistry laboratory; Chemistry of the cell; General practical chemistry; The chemistry of physiology and drug properties

##### Year 2

Inorganic synthesis, structure and reactivity; Organic synthesis, reaction mechanisms and spectroscopy; Principles of physical chemistry; Inorganic chemistry laboratory 2; Analytical chemistry; Physical chemistry laboratory 2; Organic chemistry laboratory 2; Major therapeutic areas; Computational chemistry laboratory

#### Placement/study abroad

##### Final year

General chemistry; Advanced practical chemistry; Techniques in drug discovery; Topics in inorganic chemistry I; Topics in organic chemistry I; Topics in physical chemistry I; Blockbuster drugs; Synthesis of medicinal compounds; Biosynthesis and biotransformations; Future of drug discovery; Organic and inorganic aspects of homogeneous catalysis; Plus optional units

Students must select one of the following project choices: Dissertation; University ambassadors scheme: science; Chemistry project; Engaging the public in chemistry research

#### Professional accreditations

- Accredited by The Royal Society of Chemistry for partially meeting the academic requirements for Chartered Chemist (CChem).

#### Units MChem route

##### Year 1

Atomic structure, bonding and the Periodic Table; Fundamentals of organic chemistry; From molecules to materials; Foundation chemistry laboratory; Chemistry of the cell; General practical chemistry; The chemistry of physiology and drug properties

##### Year 2

Inorganic synthesis, structure and reactivity; Organic synthesis, reaction mechanisms and spectroscopy; Principles of physical chemistry; Inorganic chemistry laboratory 2; Analytical chemistry; Physical chemistry laboratory 2; Organic chemistry laboratory 2; Major therapeutic areas; Computational chemistry laboratory

##### Year 3

General chemistry; Advanced practical chemistry; The chemical literature; Techniques in drug discovery; Topics in organic chemistry I; Synthesis of medicinal compounds; Chemistry project; Biosynthesis and biotransformations; Organic and inorganic aspects of homogeneous catalysis; Plus optional units

#### Placement/study abroad

##### Final year

Advanced chemistry research; Advanced structural methods; Preparation for chemistry research; Topics in organic chemistry II; Topics in computational chemistry; Blockbuster drugs; Future of drug discovery; Plus optional units

#### Placements

Apply your skills and knowledge to a year working in industry. You'll be employed full-time in a role to match your future career ambitions. It will broaden your experience and transferable skills, giving you a competitive edge when applying for graduate jobs. We have links with some of the industry's leading companies. Recent employers include GlaxoSmithKline, Syngenta, AkzoNobel and Pfizer.

#### Study abroad

Broaden your horizons with a year studying at a university abroad. You'll experience another culture whilst studying a course that complements your studies at Bath. We have links with universities in the United States, Canada, Australasia, Asia and Europe, including the Simon Fraser University, National University Singapore, University of Western Australia and the University of Helsinki.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement or study year abroad.

#### Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Written examination

#### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

#### Contact time with staff\*

In your first year, you should expect to spend 36% of your time in a lecture, seminar or practical/lab setting and 64% of the time in independent study. Your unit option choices will determine your future contact hours.

#### Typical offer: AAA or AAB

#### Entry requirements

##### GCSE

6 or B in Mathematics and 4 or C in English (or equivalent from category C – see page 30).

Our typical offer varies depending on how much science and mathematics you study in your A levels or Higher Level subjects.

##### A level

AAB including A in Chemistry plus two subjects from Biology, Further Mathematics, Mathematics and Physics.

AAA including Chemistry plus one subject from Biology, Further Mathematics, Mathematics or Physics.

##### International Baccalaureate

36 points and 6, 6, 5 in three Higher Level subjects including 6 in Chemistry plus two subjects from Biology, Mathematics and Physics.

36 points and 6, 6, 6 in three Higher Level subjects including 6 in Chemistry plus one subject from Biology, Mathematics or Physics.

You may be considered if you are only taking Higher Level Chemistry with Standard Level Biology, Mathematics or Physics.

#### Further information and contact details

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Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Chemistry with Management

- F145 | BSc (Hons) Three years  
 F146 | BSc (Hons) Four years including placement year  
 F1N2 | BSc (Hons) Four years including study year abroad  
 F1NF | MSci (Hons) Four years  
 F1NG | MSci (Hons) Five years including placement year

### Gain a broad education in chemistry and the business environment in which it is used. You'll be prepared for a career in scientific or management areas.

Combine your love of chemistry with an interest in business. As well as gaining a broad education in chemistry, you will study topics taught by the School of Management. You'll develop an understanding of the social, legal and economic implications of the decisions that managers in chemical and related industries need to make. On graduation, you'll be suited to roles in scientific industries, as well as areas such as marketing, administration and finance.

A broad introduction to chemistry will help you to develop the practical and theoretical skills modern chemists need. You'll gain an understanding of the theories of chemical behaviour and how they are applied. You will also develop skills in experimental chemistry and in designing experiments to test hypothesis. Our chemistry degrees have the same core units in the first year giving you the flexibility to switch courses.

You can specialise in a particular field in later years. You'll draw upon the expertise of academics in both the School of Management and Department of Chemistry, and could even contribute to the world-leading research being carried out.

The Master of Science (MSci) course provides you with the same core skills and knowledge of the bachelor's but with a greater exposure to research and advanced practical techniques.

### Units BSc route

#### Year 1

Atomic structure, bonding and the Periodic Table; Fundamentals of organic chemistry; From molecules to materials; Foundation chemistry laboratory; Business economics; General practical chemistry; Introduction to accounting

#### Year 2

Inorganic synthesis, structure and reactivity; Organic synthesis, reaction mechanisms and spectroscopy; Principles of physical chemistry; Plus optional units

Placement/study abroad

### BSc final year

Advanced practical chemistry; General chemistry; Plus optional units  
 Students must select one of the following project choices: Dissertation; University ambassadors scheme: science; Chemistry project; Engaging the public in chemistry research

### Units MSci route

#### Year 1

Atomic structure, bonding and the Periodic Table; Fundamentals of organic chemistry; From molecules to materials; Foundation chemistry laboratory; Business economics; General practical chemistry; Introduction to accounting

#### Year 2

Inorganic synthesis, structure and reactivity; Organic synthesis, reaction mechanisms and spectroscopy; Principles of physical chemistry; Plus optional units

Placement/study abroad

### MSci penultimate year

Advanced practical chemistry; General chemistry; Chemistry projects; Plus optional units

### MSci final year

Chemistry research 2; Operations management; Business analytics; Strategies for sustainability; Plus optional units

### Professional accreditations

- Accredited by The Royal Society of Chemistry for partially meeting the academic requirements for Chartered Chemist (CChem).

### Placements

Apply your skills and knowledge to a year working in industry. You'll be employed full-time in a role to match your future career ambitions. It will broaden your experience and transferable skills, giving you a competitive edge when applying for graduate jobs. We have links with some of the industry's leading companies. Recent employers include GlaxoSmithKline, Syngenta, Deloitte and PwC.

### Study abroad

Broaden your horizons with a year studying at a university abroad. You'll experience another culture whilst studying a course that complements your studies at Bath. We have links with universities in the United States, Canada, Australasia, Asia and Europe, including the Simon Fraser University, National University Singapore, University of Western Australia and the University of Helsinki.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement or study year abroad.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Portfolio
- Practical work
- Seminar
- Written examination

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 35% of your time in a lecture, seminar or practical/lab setting and 65% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or AAB

### Entry requirements

#### GCSE

6 or B in Mathematics and 4 or C in English (or equivalent from category C – see page 30).

Our typical offer varies depending on how much science and mathematics you study in your A levels or Higher Level subjects.

#### A level

AAB including A in Chemistry plus two subjects from Biology, Further Mathematics, Mathematics and Physics.

AAA including Chemistry plus one subject from Biology, Further Mathematics, Mathematics or Physics.

#### International Baccalaureate

36 points and 6, 6, 5 in three Higher Level subjects including 6 in Chemistry plus two subjects from Biology, Mathematics and Physics.

36 points and 6, 6, 6 in three Higher Level subjects including 6 in Chemistry plus one subject from Biology, Mathematics or Physics.

You may be considered if you are only taking Higher Level Chemistry with Standard Level Biology, Mathematics or Physics.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/chem](http://go.bath.ac.uk/chem)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Civil Engineering

**1st** for teaching satisfaction in the Guardian University Guide 2018

**Top 5** for Civil Engineering in the 2018 Complete University Guide

**Top 5** for Civil Engineering in The Times and Sunday Times University Guide 2018

#### Courses for this subject

- Civil and Architectural Engineering
- Civil Engineering

## The design, construction and maintenance of the built environment, covering not only buildings and infrastructure, but also the modification of the natural environment.

Civil engineers shape our built environment from bridges, tunnels and roads to canals, railways and airports. By becoming a civil engineer, you can take on the challenge of designing and building the world in which we live and work, in a sustainable way that is fit for the future.

At Bath, we offer you a different experience from most universities. Our civil engineering courses draw on the strengths of a joint department with architecture. You'll work with architecture students and tutors as well as professionally qualified engineers throughout your degree.

The best new ideas depend on the contribution of deep engineering expertise. You'll learn the mathematical and scientific foundation needed to develop designs and ensure they can be built safely. You'll also develop your own imaginative style, breadth of outlook, and ability to work creatively with other disciplines. These are essential for you to use initiative and generate new ideas.

The flexible nature of our courses lets you move between our civil and civil and architectural engineering courses, and placement year option, up to the end of your second year.

#### Teaching

You'll learn from academics with expertise in civil and architectural engineering, and from those doing the work you are learning about. Their national and international collaborations in industry and research feed into undergraduate teaching and contribute to your learning experience.

#### Careers

As a Bath civil engineering graduate, you'll possess a high level of creative ability and excellent people skills. Most of our graduates pursue their ambitions to make the world a better place by working

as designers in the construction industry. Many work in construction companies as construction and project managers, where their breadth of outlook, creativity, and people skills are highly valued. Civil engineering roles tackle complex design problems in multidisciplinary groups, working on sites anywhere in the world. Some of our graduates continue their studies with us or at other universities for a career in academia or research.

#### Facilities

You'll have access to a range of laboratories to support you throughout your civil engineering studies. These include structures, hydraulics, soils and natural building materials laboratories, and a timber workshop and computer laboratories. We'll also teach you to use specialist model-making equipment such as woodworking machinery, 3D printers and laser cutters. Most importantly, you'll develop your creative abilities in purpose built design studios.

#### Have you thought about...?

- Architecture - see page 36
- Mechanical Engineering with Manufacturing and Management - see page 93



"We are encouraged to solve problems using our intuition, judgement, and curiosity instead of simply learning mathematical equations."

Gemma Andrews, MEng Civil Engineering

## Civil and Architectural Engineering

H202 | MEng (Hons) Four years

H203 | MEng (Hons) Five years including placement year

### Integrate architectural and engineering design to construct buildings and infrastructure. Develop creative and sustainable solutions to engineer the future.

Our course is for engineers who want to contribute to a sustainable future by designing buildings that work well in every respect. You'll learn how to do this by integrating the practices of architectural and engineering design. Using good design to minimise the energy needed to make buildings comfortable for their users will be a key focus of your study.

In your first two years, you'll learn fundamental engineering skills in design and management. You'll develop a detailed understanding of mechanics, geotechnical and structural engineering theory and analysis. Throughout your degree, you'll use the creativity and communication skills that are essential in the challenging environment of civil engineering design. You'll work with architecture students to mirror the professional and interdisciplinary team relationships you will experience in your future career.

In your final years, you'll explore building aspects that affect the internal environment and energy use, learning to integrate structural and environmental engineering with architectural design.

Studying an MEng adds depth and breadth to your education with advanced taught units and substantial challenging design projects. It also meets the full educational requirements you need to become a Chartered Engineer.

### Units

#### Year 1

Structures 1A; Building environment 1; Geology; History and theory 1.1; Vernacular architecture; Design studio 1.1; Structures 1B; Computer applications; Mathematics 1; Surveying; Materials science 1

#### Year 2

Civil engineering hydraulics 1; Civil engineering management 1; Mathematics 2; Structures 2; Surveying and geology field course; Building environment 2; Transportation infrastructure engineering; Foundation design; Structural design and construction

#### Placement

#### Penultimate year

Dissertation; Geotechnical engineering; Civil engineering hydraulics 2; Structures 3; Year 3 joint design project; Bridge engineering; Building environment 3; Coastal and water engineering; Materials science 2

#### Final year

Group design project: civil and architecture; Structures 4, Building environmental design project; Façade engineering; Plus optional units

### Professional accreditations

- Accredited by the Joint Board of Moderators on behalf of ICE, IStructE, CIHT, and IHE as fully satisfying the academic base for a Chartered Engineer and an Incorporated Engineer, under the provisions of UK-SPEC.

### Placements

Going on placement gives you the chance to apply the skills you've developed at university to the workplace. You'll gain insight into the construction industry and develop your confidence and standing as an engineer. Having professional experience can benefit the rest of your degree and improve your career prospects. Our students have worked at small and large, internationally known companies including Arup, Atkins, Buro Happold and Laing O'Rourke.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Practical work
- Written examination
- Oral assessment
- Other

### Delivery methods

- Design projects
- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials

### Contact time with staff\*

In your first year, you should expect to spend 40% of your time in a lecture, seminar or practical/lab setting and 60% of the time in independent study. Your unit option choices will determine your future contact hours.

### Extra costs

The following course-related costs are not included in your fees: Plotting of drawings, model making and the creation and binding of reports. Allow for around £100 per year, payable as each drawing, model or report is required. Compulsory field course: £130 payable at the start of your second year of study. This is based on current costs and could be subject to change.

### Typical offer: A\*AA

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category C – see page 30).

#### A level

A\*AA including Mathematics.

#### International Baccalaureate

36 points and 7, 6, 6 in three Higher Level subjects including Mathematics.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/civ-eng](http://go.bath.ac.uk/civ-eng)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Civil Engineering

- H204 | BEng (Hons) Three years  
 H201 | BEng (Hons) Four years including placement year  
 H200 | MEng (Hons) Four years  
 H205 | MEng (Hons) Five years including placement year

### Develop practical and technical skills to design and build structures and infrastructure. Use integrated and creative solutions to engineer a sustainable future.

Our course is for inquisitive engineers who want to answer the difficult questions about the future of civil engineering. You'll want to push the boundaries of design and construction to generate new ideas and possibilities.

In your first two years, you'll learn fundamental engineering skills in design and management. This includes a detailed understanding of mechanics, geotechnical and structural engineering theory and analysis. From the start, you'll develop and use the ingenuity and communication skills that are essential in the challenging environment of civil engineering design. You'll explore building aspects that affect the internal environment and energy use, learning to integrate structural and environmental engineering with architectural design.

Group work with architecture students gives you a taster of the professional team relationships you'll experience in your career. This will help you to develop the imaginative approaches and people skills that are just as important in the wide range of civil engineering projects that don't involve architects. Working in interdisciplinary teams will teach you how to find creative and well-rounded solutions to civil engineering challenges.

Studying an MEng adds depth and breadth to your education with advanced taught units and substantial challenging design projects. It also meets the full educational requirements you need to become a Chartered Engineer.

### Units

#### Year 1

Structures 1A; Building environment 1; Geology; History and theory 1.1; Vernacular architecture; Design studio 1.1; Structures 1B; Computer applications; Mathematics 1; Surveying; Materials science 1

#### Year 2

Soil mechanics; Civil engineering hydraulics 1; Civil engineering management 1; Mathematics 2; Structures 2; Surveying and geology field course; Building environment 2; Transportation infrastructure engineering; Foundation design; Structural design and construction

#### Placement

#### Penultimate year

Dissertation; Geotechnical engineering; Civil engineering hydraulics 2; Structures 3; Year 3 joint design project; Bridge engineering; Building environment 3; Coastal and water engineering; Materials science 2

#### Final year

Group design project; Structures 4; Civil infrastructure design project; Advanced geotechnical engineering; Plus optional units

### Placements

Going on placement gives you the chance to apply the skills you've developed at university to the workplace. You'll gain insight into the construction industry and develop your confidence and standing as an engineer. Having professional experience can benefit the rest of your degree and improve your career prospects. Our students have worked at small and large, internationally known companies including Arup, Atkins, Buro Happold and Laing O'Rourke.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Oral assessment
- Practical work
- Written examination
- Other

### Delivery methods

- Design projects
- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 40% of your time in a lecture, seminar or practical/lab setting and 60% of the time in independent study. Your unit option choices will determine your future contact hours.

### Extra costs

The following course-related costs are not included in your fees: Plotting of drawings, model making and the creation and binding of reports. Allow for around £100 per year, payable as each drawing, model or report is required. Compulsory field course: £130 payable at the start of your second year of study. This is based on current costs and could be subject to change.

### Typical offer: A\*AA

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category C – see page 30).

#### A level

A\*AA including Mathematics.

#### International Baccalaureate

36 points and 7, 6, 6 in three Higher Level subjects including Mathematics.

### Professional accreditations

- **BEng:** Accredited by the Joint Board of Moderators on behalf of ICE, IStructE, CIHT and IHE as partly satisfying the academic base for a Chartered Engineer and fully satisfying the academic base for an Incorporated Engineer, under the provisions of UK-SPEC.
- **MEng:** Accredited by the Joint Board of Moderators on behalf of ICE, IStructE, CIHT and IHE as fully satisfying the academic base for a Chartered Engineer and fully satisfying the academic base for an Incorporated Engineer, under the provisions of UK-SPEC.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/civ-eng](http://go.bath.ac.uk/civ-eng)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Computer science

**Top ten** for computer science in the Complete University Guide 2018

**1st** for graduate prospects for computer science in the Times and Sunday Times Good University Guide 2018

**Top five** for employability for computer science & information systems in the Guardian University Guide 2018

#### Courses for this subject

- Computer Science
- Computer Science and Mathematics
- Computer Science with Business

**Computer science is the science behind much of the technology we use in our daily lives. Programming is a core topic but there is so much more to learn.**

Join us in a supportive, well-equipped and creative environment to reach your full potential.

You'll develop a sound knowledge base and a range of skills that are valuable to a career in computer science. You will learn to analyse, integrate and apply new ideas and techniques to solve computing problems.

#### Teaching

You'll learn from active researchers with expertise in important areas of computer science, including artificial intelligence, human computer interaction, mathematical foundations and visual computing. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

As a student here you'll have lots of opportunities to get involved in societies and events such as hackathons, coding competitions and conferences.

#### Careers

We currently work with around 200 companies and recent graduates have gone on to a wide variety of careers including as Product Manager at Atos, Cyber Security Analyst at Selex ES, Software Tester at Fujitsu and Software Developer at Imagination Technologies.

You'll also be well suited to roles in business, education and administration. Many of our graduates choose to go on to postgraduate study in preparation for academic or industry-based research careers.

#### Facilities

You'll have access to purpose-built teaching labs, including a dedicated prototyping lab, allowing you to create and experiment with software-driven systems and devices. Complex, data-intensive processes can be analysed over high-speed networks with our High-Performance Computing facility 'Balena'. You'll have the opportunity to access our specialist labs 24/7.

You'll be assigned a Personal Tutor to provide help and advice throughout your studies. 94% of computer science students agreed they were able to contact staff when they needed to (National Student Survey 2017).

#### Have you thought about...?

- Computer Systems Engineering - see page 69
- Management - see page 45
- Mathematics - see page 85



"The course is a perfect balance of stimulating challenges and support. Everyone's always buzzing about the next app they'll develop, the next problem they'll solve, the next project they'll undertake."

Riccardo Broggi, BSc Computer Science



## Computer Science

|      |  |   |
|------|--|---|
| G400 |  | BSc (Hons) Three years                              |
| G401 |  | BSc (Hons) Four years including placement year      |
| I10C |  | BSc (Hons) Four years including study year abroad   |
| G403 |  | MComp (Hons) Four years                             |
| G404 |  | MComp (Hons) Five years including placement year    |
| I101 |  | MComp (Hons) Five years including study year abroad |

### Develop sound theoretical and practical abilities in software design, development and experimentation, to become an innovative computing professional.

This course will give you the skills and knowledge necessary to apply valid computer science methods to new and emerging computing problems. These abilities are highly valued by employers.

You'll gain a solid foundation in computer science with rigorous theory and practical experience. The course combines software systems design, software development, interaction design, artificial intelligence, computational mathematics, computer graphics and vision.

In the first year, you'll learn the basics of computer science, including mathematics and programming skills, followed by more advanced and specialised units in later years. In the second year, you will complete a group project with other students to design and build an interactive application. In the final year, you will choose optional units alongside an individual project that combines your interests in a specific area of computer science.

The Master of Computing (MComp) course provides you with the same core skills and knowledge as the BSc but with a greater exposure to and integration with research groups in the Department.

#### Units BSc route

##### Year 1

- Computing as a science and engineering discipline
- Principles of programming 1
- Computer systems architecture 1
- Discrete mathematics for computation
- Principles of programming 2
- Computer systems architecture 2
- Analytical mathematics for applications

##### Year 2

- Human computer interaction
- Integrated group-based project
- Foundations of computation
- Fundamentals of visual computing
- Data structures and algorithms
- Databases
- Fundamentals of machine learning
- Artificial intelligence
- Comparative programming languages
- Functional programming

Placement/study abroad

##### Final year

- Individual project
- Plus optional units

#### Units MComp route

##### Year 1

- Computing as a science and engineering discipline
- Principles of programming 1
- Computer systems architecture 1
- Discrete mathematics for computation
- Principles of programming 2
- Computer systems architecture 2
- Analytical mathematics for applications

##### Year 2

- Human computer interaction
- Integrated group-based project
- Foundations of computation
- Fundamentals of visual computing
- Data structures and algorithms
- Databases
- Fundamentals of machine learning
- Artificial intelligence
- Comparative programming languages
- Functional programming

##### Year 3

- Entrepreneurship
- Individual project
- Plus optional units

Placement/study abroad

##### Final year

- Research project
- Plus optional units

#### Professional accreditations

- Accredited by the Chartered Institute for IT (BCS)
- This course offers the Euro-Inf Bachelor Quality Label, licensed by EQANIE.

#### Placements

Apply your skills and knowledge to a year working in industry. You'll be employed full-time in a role to match your future career ambitions. It will broaden your experience and transferable skills, giving you a competitive edge when applying for graduate jobs. Most of our students go on placement and about half of them get a job offer from their placement employer.

We have links with some of the industry's leading companies. Recent employers include Accenture, Imagination Technologies, Goldman Sachs, Microsoft and Google. The average salary of computer science placement students in 2016/17 was £23,690 and the highest salary was £40,000.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

#### Study abroad

Broaden your horizons with a year studying at a university abroad. You'll experience another culture while studying a course that complements your studies at Bath.

We have links with universities in the United States, Canada, Australia, New Zealand and Europe, currently including Binghamton University, University of Nebraska, University of Canterbury, TU Vienna and National University Singapore.

#### Assessment methods

- Coursework
- Dissertation
- Essay
- Written examination

#### Delivery methods

- Laboratory sessions
- Lectures
- Tutorials

#### Contact time with staff\*

In your first year, you should expect to spend 31% of your time in a lecture, seminar or practical/lab setting and 69% of the time in independent study. Your unit option choices will determine your future contact hours.

#### Typical offer: AAA or A\*AB

#### Entry requirements

##### GCSE

4 or C in English (or equivalent from category B – see page 30).

##### A level

AAA or A\*AB including A in Mathematics.

##### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in Mathematics.

You may be considered if you are taking Standard Level Mathematics alongside another highly numerate Higher Level subject.

#### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/comp-sci](http://go.bath.ac.uk/comp-sci)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Computer Science and Mathematics

|      |  |   |
|------|--|---|
| G4GD |  | BSc (Hons) Three years                              |
| G4GA |  | BSc (Hons) Four years including placement year      |
| I10B |  | BSc (Hons) Four years including study year abroad   |
| G4G1 |  | MComp (Hons) Four years                             |
| GLG1 |  | MComp (Hons) Five years including placement year    |
| G4GC |  | MComp (Hons) Five years including study year abroad |

### Develop skills in mathematics and software development, preparing you for roles that involve computational analysis, modelling and simulation.

Computer science and mathematics are closely linked. Many of the leading applications of computing are mathematical and computers are fundamentally logic engines.

This joint degree course is for you if you enjoy and excel at computing but want to combine that with a very strong interest in mathematics.

In the first two years, you'll study a mix of mathematics and computing units, including computational approaches to finding patterns in data and the generation of computational models. You will also share lectures with Mathematical Sciences students to study fundamental algebra and mathematical analysis. In the final year, you can choose to specialise in areas of numerical computer science and mathematics.

Computer scientists with good mathematical knowledge are in great demand worldwide. On graduation, you can apply what you've learnt to roles in software development that rely on a combination of mathematical and computational modelling, such as data analysis and forecasting.

The Master of Computing (MComp) course provides you with the same core skills and knowledge of the BSc but with a special exposure to research topics and methods.

### Units BSc route

#### Year 1

- Computing as a science and engineering discipline
- Analysis 1
- Principles of programming 1
- Algebra 1A
- Principles of programming 2
- Algebra 1B

#### Year 2

- Integrated group-based project
- Foundations of computation
- Databases
- Algebra 2A
- Analysis 2A
- Comparative programming languages
- Functional programming
- Algebra 2B
- Analysis 2B
- Plus optional units

Placement/study abroad

#### Final year

- Individual project
- Plus optional units

### Units MComp route

#### Year 1

- Computing as a science and engineering discipline
- Analysis 1
- Principles of programming 1
- Algebra 1A
- Principles of programming 2
- Algebra 1B

#### Year 2

- Integrated group-based project
- Foundations of computation
- Databases
- Algebra 2A
- Analysis 2A
- Comparative programming languages
- Functional programming
- Algebra 2B
- Analysis 2B
- Plus optional units

#### Year 3

- Individual project
- Plus optional units

Placement/study abroad

#### Final year

- Research project
- Plus optional units

### Placements

Apply your skills and knowledge to a year working in industry. You'll be employed full-time in a role to match your future career ambitions. It will broaden your experience and transferable skills, giving you a competitive edge when applying for graduate jobs. Most of our students go on placement and about half of them get a job offer from their placement employer.

We have links with some of the industry's leading companies. Recent employers include Accenture, Imagination Technologies, Goldman Sachs, Microsoft and Google. The average salary of computer science placement students in 2016/17 was £23,690 and the highest salary was £40,000.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Study abroad

Broaden your horizons with a year studying at a university abroad. You'll experience another culture whilst studying a course that complements your studies at Bath.

We have links with universities in the United States, Canada, Australia, New Zealand and Europe, currently including Binghamton University, University of Nebraska, University of Canterbury, TU Vienna and National University Singapore.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Written examination

### Delivery methods

- Laboratory sessions
- Lectures
- Tutorials

### Contact time with staff\*

In your first year, you should expect to spend 31% of your time in a lecture, seminar or practical/lab setting and 69% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or A\*AB

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category B – see page 30).

#### A level

AAA or A\*AB including A in Mathematics and Further Mathematics.

Alternative offers are available online if you have not studied A level Further Mathematics.

#### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in Mathematics.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/comp-sci](http://go.bath.ac.uk/comp-sci)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Computer Science with Business

- G4N1 | BSc (Hons) Three years  
 G4NC | BSc (Hons) Four years including placement year  
 I10A | BSc (Hons) Four years including study year abroad

### Develop skills in analysis, design and development of software systems. You'll also gain management skills for computing careers in business environments.

Computer software technology is now a thoroughly integrated part of most business and government organisations. This course combines the majority of our mainstream Computer Science course with specially selected units from the School of Management. You'll learn about software innovation in context and contemporary management practices. Your studies will enhance the main technical and mathematical topics of computer science with an introduction to core business topics.

In the first two years you'll gain a solid theoretical foundation on the study of computer science and practical methods for designing, developing and validating software systems. Business topics include the study of organisations and their management. You will also look at business strategy to appreciate the role and impact of computer systems within organisations.

In the final year, you can choose from a range of optional units in computer science and management to match your future career plans. You'll graduate with a unique set of skills and knowledge which you can use to analyse, design, develop and deploy effective computer-based systems.

### Units

#### Year 1

- Computing as a science and engineering discipline
- Principles of programming 1
- Discrete mathematics for computation
- Organisational behaviour
- Principles of programming 2
- Analytical mathematics for applications
- Introduction to accounting

#### Year 2

- Human computer interaction
- Integrated group-based project
- Computer systems architecture 1
- Data structures and algorithms
- Databases
- Managing human resources
- Computer systems architecture 2
- Artificial intelligence
- Comparative programming languages
- Managing enterprise information systems

Placement/study abroad

#### Final year

- Individual project
- Plus optional units

### Professional accreditations

- Accredited by the Chartered Institute for IT (BCS).
- This course offers the Euro-Inf Bachelor Quality Label, licensed by EQANIE.

### Placements

Apply your skills and knowledge to a year working in industry. You'll be employed full-time in a role to match your future career ambitions. It will broaden your experience and transferable skills, giving you a competitive edge when applying for graduate jobs. Most of our students go on placement and about half of them get a job offer from their placement employer.

Recent employers include Accenture, Imagination Technologies, Goldman Sachs, Microsoft and Google. The average salary of computer science placement students in 2016/17 was £23,690 and the highest salary was £40,000.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Study abroad

Broaden your horizons with a year studying at a university abroad. You'll experience another culture whilst studying a course that complements your studies at Bath.

We have links with universities in the United States, Canada, Australia, New Zealand and Europe, currently including Binghamton University, University of Nebraska, University of Canterbury, TU Vienna and National University Singapore.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Written examination

### Delivery methods

- Laboratory sessions
- Lectures
- Tutorials

### Contact time with staff\*

In your first year, you should expect to spend 26% of your time in a lecture, seminar or practical/lab setting and 74% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or A\*AB

#### Entry requirements

##### GCSE

4 or C in English (or equivalent from category B – see page 30).

##### A level

AAA or A\*AB including A in Mathematics.

##### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in Mathematics.

You may be considered if you are taking Standard Level Mathematics alongside another highly numerate Higher Level subject.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/comp-sci](http://go.bath.ac.uk/comp-sci)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Counselling



## Course for this subject

- Addictions Counselling

### Addictions counselling involves many different therapeutic interventions to support the treatment of addiction.

There is currently demand for capable practitioners that can help those with problems relating to addiction.

Our course in Addictions Counselling is delivered by Action on Addiction. This is a University of Bath franchised course taught at the Centre for Addiction Treatment Studies in Warminster.

Action on Addiction is a national charity which provides treatment and help for those affected by addiction. They also provide education and professional development for practitioners.

### Teaching

You'll learn from academics and practitioners with expertise in addictions counselling. Their research activities feed into your teaching and contribute to your learning experience.

### Careers

Our graduates have gone on to work as addictions counsellors in both residential and community-based settings. They have also worked in related fields such as the prison service, mental health and homelessness.

On successful completion of the foundation degree, you may be able to progress on to a third-year top-up course and earn a Bachelor of Science qualification.

### Facilities

As a student on this course, you will be able to use the facilities at both the University of Bath and the Centre for Addiction Treatment Studies. At the University of Bath, this includes the campus library and the sports and recreation facilities. You are also eligible to join the University of Bath Students' Union.

### Have you thought about...?

- Social Work and Applied Social Studies - see page 111
- Education with Psychology - see page 66
- Health and Exercise Science - see page 120



"I cannot express how much I've gained from the degree, and can only thank the tutors and the staff at the Centre for Addiction Treatment Studies for helping me begin my career."

Molly Wrobel, FdSc Addictions Counselling

# Addictions Counselling

B940 | FdSc Two years (franchised)

**Develop the vocational skills required to become a practitioner in addictions counselling. You'll learn through academic study and work-based learning.**

This two year foundation degree enables you to deliver safe and effective interventions for those with problems due to addiction. You'll gain the skills to plan and deliver treatment for addictive behaviours. You will also learn about the latest developments in addictions treatment.

In the course, you'll learn through a variety of statutory and voluntary settings. You'll also gain experience through working with multidisciplinary teams and service users. You'll develop your ability to gather and test information from a range of sources. This will enable you to draw reasoned conclusions for application in practice.

In consultation with your Course Tutor, you will find a suitable work-based learning placement on this course. You will observe the treatment tasks by qualified staff and receive direction in carrying out the tasks yourself. This enables you to gain essential experience in the field.

The course is delivered by Action on Addiction and teaching will take place at the Centre for Addiction Treatment Studies in Warminster. Each unit is taught in three, four and five day blocks, so you don't need to relocate for this course. You will benefit from teaching by academic staff and practitioners who are experts in their field.

On completion of the foundation degree to the required academic standard, you may have the opportunity to progress to the one year BSc (Hons) Addictions Counselling course.

## Units

### Year 1

- Study skills
- Alcohol and drug problems and societal responses
- Treatment and counselling approaches and models of recovery
- Counselling skills in an addictions context
- Diversity issues in addictions treatment
- Introduction to assessment
- Introduction to treatment planning
- Interpersonal group therapy
- Personal and professional development 1
- Motivational interviewing

### Year 2

- Personal and professional development 2
- Research project
- Harm reduction approaches
- The 12 step programme
- Cognitive therapy and substance misuse
- Understanding the research literature
- Preparing a small scale research project
- Working with the family and significant others
- Relapse prevention
- Dual diagnosis and complex needs

### Year 3 (BSc route)

- Research methods
- Supervision
- Motivational interviewing and Cognitive Behavioural Therapy for addictions – theory, models and research
- Developing motivational interviewing
- Work-based research project
- Developing cognitive-behavioural counselling
- Meeting stakeholder and quality requirements
- Managing performance
- Developing group leadership

## Professional accreditations

- Federation of Drug and Alcohol Practitioners.

## Assessment methods

- Work-based placement
- Coursework
- Dissertation
- Essay
- Oral assessment
- Portfolio
- Practical work
- Seminar
- Other

## Delivery methods

- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

## Contact time with staff\*

In your first year, you should expect to spend 26% of your time in a lecture or seminar setting, 66% of the time in independent study and 8% on a workbased placement.

## Extra costs:

Transportation and accommodation: Teaching on this course is delivered in three, four and five day blocks in Warminster. You will be responsible for payment of your transportation and accommodation costs.

## Typical offer: CD

## Entry requirements

### GCSE

4 or C in English (or equivalent from category C – see page 30).

### A level

CD in two A levels.

### Access to HE Diploma

A pass in the Access to HE Diploma in a relevant subject area including passes in 45 credits at Level 3.

### BTEC

PPP in any Level 3 Extended Diploma (QCF or RQF).

### Accreditation of experiential learning (APEL)

We may be able to consider you without formal qualifications if you have a minimum of two years' relevant work experience.

You will need to obtain an Enhanced Disclosure and Barring Service (DBS) check during this course. If you are a student who requires a Tier 4 visa to study you will not be able to join this course.

## Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/addictions-counselling](http://go.bath.ac.uk/addictions-counselling)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Economics

**1st** for Career after six months for Economics in The Guardian University Guide 2018

**2nd** for Graduate Prospects for Economics in The Complete University Guide 2018

**Top ten** for Economics in The Guardian University Guide 2018

#### Courses for this subject

- Economics
- Economics and Mathematics
- Economics and Politics

#### Economics is a social science that examines why and how people make choices to improve their wellbeing and wealth.

Economics helps us answer questions, such as: How should the banking system be regulated to prevent another credit crisis? Should we raise taxes to reduce pollution? How can economic policy support investment and growth?

You will learn how to analyse complex data and solve economic problems. You will be able to review economic theory and apply quantitative techniques to understand behaviour.

#### Teaching

You'll learn from academics with expertise across the breadth of economics. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

#### Careers

Our economics graduates are very successful in today's competitive labour market. They pursue a range of careers in both the private and public sectors.

Many of our graduates work as economists, financial or business analysts, researchers, accountants and tax professionals. They have worked for organisations such as: Deloitte, Google, Bank of England, Morgan Stanley and AXA.

#### Facilities

Our computer network enables you to access the up-to-the-minute data on economics. You will use the latest economics based software to improve your ability to conduct analysis.

#### Have you thought about...?

- International Development with Economics - see page 78
- Politics with Economics - see page 108
- Accounting and Finance - see page 34



"The course has a nice balance between theory and applications and is quite flexible; you can specialise in areas you find interesting, such as public policy, game theory and econometrics."

Ludi Wang, BSc Economics

## Economics

- L100 | BSc (Hons) Three years  
 L101 | BSc (Hons) Four years including placement year  
 L104 | BSc (Hons) Four years including study year abroad  
 L105 | BSc (Hons) Four years including combined placement and study year abroad

**Gain the skills you need to solve a variety of complex economic issues. You'll learn core economic theory and become acquainted with chosen specialist areas.**

In this degree, you will study the foundation of economic theory and its application to decisions to the real world. You'll explore the connections between economic issues, such as business and rational human behaviour.

The course will teach you how to manipulate economic theory, enabling you to solve complex economic problems. You'll develop your knowledge of UK and global economics which will enable you to understand how economic decisions and policies are made.

Your first year is concerned with key concepts in microeconomic and macroeconomic theory. You'll further your skills in core mathematics, statistics and data analysis. In Year 2, you'll build on this through intermediate study of economic theory. The study of econometrics will enable you to understand economic systems. The final year will teach you advanced economic theory. A selection of optional units will enable you to tailor your expertise.

### Units

#### Year 1

- Introductory microeconomics
- Core skills for economists: mathematics 1
- The modern world economy
- Core skills for economists: introduction to probability and statistics
- Introductory macroeconomics
- Core skills for economics: statistics and data analysis
- Core skills for economists: mathematics 2
- Economic policy in the UK
- Plus optional units

#### Year 2

- Introduction to econometrics
- Intermediate microeconomics 1
- Intermediate macroeconomics 1
- Intermediate microeconomics 2
- Intermediate macroeconomics 2
- Plus optional units

#### Placement/study abroad

#### Final year

- Advanced macroeconomics
- Advanced microeconomics
- Plus optional units

Examples of current optional units:

- Public economics
- International economics
- Economics of banking
- Growth theory
- Industrial organisation

### Placements

The placement year is an opportunity for you to use the theory you have learnt in a practical context. You will learn about an organisation and its area of work. This is an excellent opportunity to test potential career paths. Sometimes permanent jobs are offered to our students. You'll develop skills such as teamwork, planning, problem solving, decision making and project management.

Employers value a year of professional work and you'll gain an advantage in the job market. Sometimes it is possible for you to acquire additional professional qualifications, particularly in accountancy, whilst on placement. Our students have taken placements in a wide range of organisations in the public and private sectors such as Morgan Stanley, Amazon, Microsoft, Bank of England, Welsh Assembly and the Cabinet Office.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Study abroad

You will have the opportunity to study abroad at an approved highly ranked partner institution. You could combine study abroad with an international work placement. This opportunity will enhance your skills and prepare you for employment in the competitive global graduate market. The study abroad option is currently available in Singapore, Hong Kong and South Africa, and we seek to expand these. Study abroad opportunities are limited and are subject to availability at our partner institutions.

### Assessment methods

- Coursework
- Dissertation
- Multiple choice examination
- Written examination

### Delivery methods

- Lectures
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 24% of your time in a lecture or seminar setting and 76% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: A\*AA

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category B – see page 30).

#### A level

A\*AA including Mathematics.

#### International Baccalaureate

36 points and 7, 6, 6 in three Higher Level subjects including Mathematics.

You may be considered if you are taking Standard Level Mathematics.

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/econ](http://go.bath.ac.uk/econ)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Economics and Mathematics

- L102 | BSc (Hons) Three years
- L103 | BSc (Hons) Four years including placement year
- L106 | BSc (Hons) Four years including study year abroad
- L107 | BSc (Hons) Four years including combined placement and study year abroad

### Achieve a grounding in economic theory while learning the statistical means for the analysis of economic data.

This course is for those that want an understanding of the tools and key theories within economics and mathematics. You'll study the core elements of economics, including microeconomic theory, macroeconomic theory and econometrics.

You will develop methodological and statistical tools for the analysis of complex data. Throughout your studies, you will be immersed in a wide variety of quantitative topics. This will enable you to develop and apply your advanced mathematical skills.

The first year has a mathematical focus to develop your theoretical skills. In Year 2 you'll further your knowledge of economics from this foundation in the first year. In the final year, you will study advanced economic theory. A selection of optional units will enable you to tailor your studies. By the end of the course, you'll be able to understand the complexities of global economic problems and data.

### Units

#### Year 1

- Analysis 1
- Introductory microeconomics
- Algebra 1A
- Probability and statistics 1A
- Methods and applications 1A
- Introductory macroeconomics
- Mathematical economics
- Algebra 1B
- Probability and statistics 1B

#### Year 2

- Introduction to econometrics
- Intermediate microeconomics 1
- Intermediate macroeconomics 1
- Intermediate microeconomics 2
- Intermediate macroeconomics 2

#### Placement/study abroad

#### Final year

- Advanced macroeconomics
- Advanced microeconomics
- Plus optional units

Examples of current optional units:

- Algebra
- Statistics
- Economics of financial markets
- Economics of incentives
- Time series

### Placements

The placement year is an opportunity for you to gain practical experience in the use of economics. You'll develop skills such as teamwork, planning, problem solving, decision making and project management. Employers place a high value on the placement as they are keen to recruit graduates who have professional experience in the workplace.

You will benefit from our excellent and long-standing links with the financial sector, industry, government and international organisations. These have been developed through the placement schemes and research activities of the Department of Economics and the Department of Mathematical Sciences. Our students have taken placements in a wide range of organisations such as HSBC, UBS, Dyson and Union Bancaire Privée.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Study abroad

You will have the opportunity to study abroad at an approved highly ranked partner institution. You could combine study abroad with an international work placement. This opportunity will enhance your skills and prepare you for employment in the competitive global graduate market. The study abroad option is currently available in Singapore, Hong Kong and South Africa, and we seek to expand these. Study abroad opportunities are limited and are subject to availability at our partner institutions.

### Assessment methods

- Coursework
- Dissertation
- Multiple choice examination
- Written examination

### Delivery methods

- Lectures
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 34% of your time in a lecture or seminar setting and 66% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: A\*AA

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category C – see page 30).

#### A level

A\*AA in Mathematics and Further Mathematics plus either A in a third A level or B in a third A level and grade 2 in any STEP.

We prefer applicants with A level Further Mathematics. Alternative offers are available online if you have not studied Further Mathematics at A level.

#### International Baccalaureate

36 points and 7, 6, 6 in three Higher Level subjects including 6 in Mathematics or 7, 6, 5 in three Higher Level subjects including 7 in Mathematics.

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/econ](http://go.bath.ac.uk/econ)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019



## Economics and Politics

- LL12 | BSc (Hons) Three years
- LLC2 | BSc (Hons) Four years including placement year
- LLC3 | BSc (Hons) Four years including study year abroad
- LLC4 | BSc (Hons) Four years including combined placement and study year abroad

**Understand the complex interactions between economic and political factors. You'll gain the skills to manipulate economic theory to solve global problems.**

In this course, you'll examine the challenges facing individuals, countries and the international community.

You will develop an understanding of government and society through core concepts such as power, justice, order, conflict, legitimacy, accountability, obligation, sovereignty and decision making. You will develop strong numeracy skills in statistics and information technology. You will explore the institutional, UK and global context within which economic decisions and policy formation takes place.

In your first year, you will gain a secure base in microeconomic and macroeconomic theory. You will study the exercise of power in societies, and the resolution of conflict between power and policies. This will be integrated into economic analysis. You will also develop your understanding of international relations, and issues of conflict and security. In the final year, you will be able to choose from a selection of optional units. By the end of the course, you will have an appreciation of the interface between economics and political science.

### Units

#### Year 1

- Introductory microeconomics
- Core skills for economists: mathematics 1
- Core skills for economists: introduction to probability and statistics
- Introduction to politics: theory and analysis
- Introductory macroeconomics
- Core skills for economists: statistics and data analysis
- Introduction to international relations
- Plus optional units

#### Year 2

- Economic thought and policy
- International comparative politics
- Intermediate microeconomics 1
- Intermediate macroeconomics 1
- Economics of politics
- Plus optional units

#### Placement/study abroad

#### Final year

- Optional units

Examples of current optional units:

- Money and finance
- Public finance - economics of taxation
- International trade
- American politics
- Political economy
- Modern silk roads: international trade in a global economy

### Placements

The placement year is an opportunity for you to gain practical experience in the use of economics and/or politics. You'll develop skills such as teamwork, planning, problem solving, decision making and project management. Industrial training is an option on all of our economics courses.

Employers place a high value on the placement as they are keen to recruit graduates who have professional experience in the workplace. You will benefit from our long and valued history of cooperation with government, industry and research organisations. Our students have taken placements in: Nomura, EY, Microsoft, Pension Protection Fund, BP, UBS, Morgan Stanley, and Amazon.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Study abroad

You will have the opportunity to study abroad at an approved highly ranked partner institution. You could combine study abroad with an international work placement. This opportunity will enhance your skills and prepare you for employment in the competitive global graduate market. The study abroad option is currently available in Singapore, Hong Kong and South Africa, and we seek to expand these. Study abroad opportunities are limited and are subject to availability at our partner institutions.

### Assessment methods

- Coursework
- Dissertation
- Multiple choice examination
- Written examination

### Delivery methods

- Lectures
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 22% of your time in a lecture or seminar setting and 78% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: A\*AA

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category B – see page 30).

#### A level

A\*AA including Mathematics.

#### International Baccalaureate

36 points and 7, 6, 6 in three Higher Level subjects including Mathematics.

You may be considered if you are taking Standard Level Mathematics.

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/econ](http://go.bath.ac.uk/econ)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Education

**1st** for Psychology in The Guardian University Guide 2018

**2nd** for Social Work in The Guardian University Guide 2018

This course uses data grouped by league tables under the broad categories of Social Work and Psychology.

#### Course for this subject

- Education with Psychology

**Education is concerned with how people develop and learn throughout their lives. It involves critiquing the teaching methods and environments in which we learn.**

The study of education enables you to identify and challenge the purposes, practices and functions of education in different contexts.

You'll explore government priorities relating to children's lives and wellbeing, and the role of education in these. You will learn how to question the role that education plays in addressing fundamental issues relating to inequality, citizenship and the environment.

Our course in this subject is delivered by our departments of Education and Psychology enabling you to benefit from two academic disciplines.

#### Teaching

You'll learn from academics with expertise in education. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

#### Careers

This degree prepares you for employment within a range of services for children and young people.

With further studies you could go into teaching, counselling, youth work or special needs support. It also enables you to work with

non-governmental organisations whose concern is the welfare of children, their families and young people. You could also go on to pursue further study or an academic career in the social sciences.

#### Have you thought about...?

- Psychology - see page 110
- Social Work - see page 111
- Sociology, social policy and criminology - see page 113



"I've absolutely loved my time at Bath. It's allowed me to grow as a person and it's let me understand where I want to be and given me the tools to get there."  
Joyce Meloni, BA Education with Psychology

## Education with Psychology

LX5H | BA (Hons) Three years

LXM3 | BA (Hons) Four years including placement year

### Explore how young children and adolescents learn and develop. You'll focus on contemporary society, both globally and in the UK.

In this course, you'll study a range of social science content from the disciplines of education, psychology and sociology.

You'll study the social and developmental contexts of childhood and youth in depth. During the degree, you'll also explore government priorities relating to children's lives and wellbeing, and the role of education.

In the first year, you'll study core introductory units in education, psychology and research methods. In your second year, you'll be able to choose from a diverse range of optional units. You will also study advanced topics in education and psychology.

The final year provides an opportunity to specialise according to your interests. This includes writing a dissertation.

### Units

#### Year 1

- Mind and behaviour
- Introduction to research methods 1
- Education and schooling: an introduction
- Children's rights: a global approach
- Representations of childhood and youth
- Education and social justice philosophical and sociological perspectives
- Learning: theory and context
- Deviance: psychological and sociological perspectives
- The family as educator: cross-cultural issues

#### Year 2

- Introduction to research methods 2
- Intervention, organisation and practice
- Psychology and educational policy: a critical perspective
- Social psychology: traditional and critical approaches
- Educational psychology
- Developmental psychology
- Education inequalities in low-income contexts
- Contemporary issues in childhood and youth 1: theoretical perspectives
- Plus optional units

### Placement

#### Final year

- Dissertation part 1
- Contemporary issues in childhood and youth 2: policy and practice
- Contemporary educational psychology
- Developmental psychopathology
- Dissertation part 2
- Children and technology: a global perspective
- Place and space in schooling and education
- Plus optional units

Examples of current optional units:

- Talk and learning
- Education inequality in high-income countries

### Placements

A placement year will give you excellent hands-on experience and help you decide where your specific interests lie. You'll develop your knowledge and understanding and be able to consider more deeply your interests and preferences in preparation for future employment. You will gain a competitive advantage when applying for jobs.

Our students have previously spent their placement year working in the UK or overseas at charities, research institutes and at local, national and international schools.

Some of the places our students have worked include: The Hermitage Museum (St Petersburg); Autism UK; Families Effective Learning and Literacy (FELL) Research Group (University of Oxford); Trauma Recovery Centre (Bath); Tamagawa International School (Tokyo); Wesley Intermediate School (New Zealand).

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Oral assessment
- Written examination

### Delivery methods

- Lectures
- Seminars

### Contact time with staff\*

In your first year, you should expect to spend 20% of your time in a lecture or seminar setting and 80% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: ABB

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category B – see page 30).

#### A level

ABB in three A levels.

#### International Baccalaureate

35 points and 6, 5, 5 in three Higher Level subjects.

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/edu-psych](https://go.bath.ac.uk/edu-psych)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Electronic and electrical engineering

**Joint first** for career after six months for electronic and electrical engineering in the Guardian University Guide 2018

**Top 10** for electronic and electrical engineering in the Complete University Guide 2018

**Awarded TEF Gold** for excellence in undergraduate teaching

## Courses for this subject

- Computer Systems Engineering
- Electrical and Electronic Engineering
- Electrical Power Engineering
- Electronic Engineering with Space Science and Technology
- Electronic Systems Engineering
- Robotics Engineering



**Electronic and electrical engineering is the study of electricity and its application in modern systems and devices, underpinning most technological advances in industry and society.**

Electronic and electrical engineering is the driving force behind many of our systems, infrastructure and technologies. In a sector that is rapidly evolving, engineers need to combine design creativity with scientific analysis to develop the next products and applications.

At Bath, we want to give you the knowledge and confidence to not just keep up with these advances, but to be at the forefront of them. On our courses, you'll discover the technology behind communications, healthcare, transport and energy. You'll learn how to use technical knowledge and creativity to design and build electronic devices and advanced electrical and electronic systems.

When you graduate, you could be developing the next smartphone, finding better ways to detect cancer, developing renewable micro-grids, or leading the robotics revolution.

## Teaching

You'll learn from academics with expertise in electronic and electrical engineering. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

## Careers

We work with industrial partners to make sure our course content reflects the needs of global engineering industries. You'll graduate with the technical expertise and transferable skills that will open up employment opportunities for you. You can pursue a career in high-technology industries in electronics, power, aerospace,

communications, robotics or manufacturing. Or you could find employment in other sectors such as IT, financial services, accountancy, the armed forces or business. Many of our graduates continue their studies to pursue an academic or research career.

## Facilities

You'll have access to facilities specially equipped for your degree. Our laboratories are designed to be similar to industrial workspaces so you gain an insight into what it is like to work in a professional environment. These include laboratories for tomography, superconductivity, autonomous systems and robotics. We also have facilities for optoelectronics and circuit board prototyping, and a mechanical workshop.

## Have you thought about...?

- Computer Science - see page 57
- Integrated Mechanical and Electrical Engineering - see page 75
- Integrated Design Engineering - see page 90



"Bath stood out from other universities for its industrial placements."

Mafalda Ribeiro, MEng (Hons) Electrical and Electronic Engineering with placement year

# Computer Systems Engineering

GH46 | BEng (Hons) Three years  
 GHK6 | BEng (Hons) Four years including placement year  
 HG64 | MEng (Hons) Four years  
 HGP4 | MEng (Hons) Five years including placement year

## Combine electronic engineering expertise with advanced knowledge of computer hardware and software skills to develop the computer systems of tomorrow.

Our course prepares you for a career in an advancing field at the interface of engineering and computing. You'll gain in-depth knowledge of modern computer systems, software engineering, computer graphics and embedded programming to become a systems-level expert.

Learning the foundations of electronic, electrical and computer principles gives you a broad understanding of the subject. Later in your degree, you can specialise in an area of choice with units including embedded electronic systems, computational intelligence or electronic design.

Working with the latest digital technology, you'll design systems such as embedded microprocessors, programmable integrated circuits or high-performance computers. You'll learn how to use industry standard programming and hardware design languages, operating systems and applications. Group and individual projects give you the technical, business and management skills to solve engineering problems relevant to industry.

Choosing the MEng route gives you a more in-depth study experience through advanced taught units and semester-long individual and group project work. It also gives you the educational requirements you need to become a Chartered Engineer.

### Units BEng route

#### Year 1

Introduction to programming in MATLAB; Electronic laboratory techniques and professional engineering practice 1; Circuit theory; Engineering physics; Mathematics 1; Signals, systems and communications; Microprocessors and interfacing; Digital electronics; Mathematics 2; Electronic systems design and manufacture 1

#### Year 2

Data structures and algorithms; Electronic devices and circuits; Digital systems design; Signal processing; Structured programming; Artificial intelligence; Communication principles; Electronic systems design and manufacture 2; Group design and professional engineering practice 2; Control systems

Placement

#### Final year

Fundamentals of visual computing; Digital networks and protocols; Digital audio and signal processing; BEng group project; BEng individual project; Plus optional units

### Units MEng Route

#### Year 1

Introduction to programming in MATLAB; Electronic laboratory techniques and professional engineering practice 1; Circuit theory; Engineering physics; Mathematics 1; Signals, systems and communications; Microprocessors and interfacing; Digital electronics; Mathematics 2; Electronic systems design and manufacture 1

#### Year 2

Data structures and algorithms; Electronic devices and circuits; Digital systems design; Signal processing; Structured programming; Artificial intelligence; Communication principles; Electronic systems design and manufacture 2; Group design and professional engineering practice 2; Control systems

Placement

#### Penultimate year

Fundamentals of visual computing; Digital networks and protocols; Digital audio and signal processing; Group design and business project 1; Group design and business project 2; Plus optional units

#### Final year

Digital image processing; Computational intelligence; Satellite, terrestrial and mobile communication systems; MEng individual project; Plus optional units

### Professional accreditations

- **BEng:** Accredited by the Institute of Engineering and Technology, licensed by the Engineering Council, as partly satisfying the educational requirements for a Chartered Engineer.
- **MEng:** Accredited by the Institute of Engineering and Technology, licensed by the Engineering Council, to fulfil the educational requirements for a Chartered Engineer.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/electrical-elec-eng](http://go.bath.ac.uk/electrical-elec-eng)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

### Placements

Going on placement lets you apply theoretical knowledge to the workplace and develop skills in a professional environment. Your placement experience can benefit the rest of your degree and boost your career prospects after graduation. It is also an opportunity to earn a salary during your degree.

Our students have worked at companies including Intel, Surrey Satellite Technology, Samsung and Siemens.

You are free to move between full-time and placement option courses up until the end of your second year.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice exam
- Oral assessment
- Practical work
- Seminar
- Written examination

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 35% of your time in a lecture, seminar or practical/lab setting and 65% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or A\*AB

#### Entry requirements

##### GCSE

4 or C in English (or equivalent from category C – see page 30).

##### A level

AAA or A\*AB including A in Mathematics a second science or technology subject.

##### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in Mathematics and a second science or technology subject.

## Electrical and Electronic Engineering

|      |  |   |
|------|--|---|
| H603 |  | BEng (Hons) Three years                         |
| H604 |  | BEng (Hons) Four years including placement year |
| H600 |  | MEng (Hons) Four years                          |
| H601 |  | MEng (Hons) Five years including placement year |

### Learn the latest theoretical, hardware and software skills to pursue a professional career as an engineer.

Our course gives you a broad and flexible education in electrical and electronic engineering. The choice of advanced engineering units lets you keep your career options open and tailor your degree to what you want to excel in.

From your first day, you'll build on your understanding of electrical and electronic principles and gain an appreciation for new engineering techniques. Learning about the practical technologies used in industry will give you insight into current practices in professional engineering.

Group and individual projects give you the chance to develop your technical, teamwork, business and management skills. Combining theory and practice, you'll take creative approaches to solve engineering problems relevant to industry. Your projects could be on topics such as virtual reality tracking systems, medical sensors or next-generation LEDs.

Our partnerships with the UK Electronics Skills Foundation and the IET Power Academy give you access to scholarships with leading companies such as ARM, National Grid and Rolls Royce.

Choosing the MEng route gives you a more in-depth study experience through advanced taught units and semester-long individual and group project work. It also gives you the educational requirements you need to become a Chartered Engineer.

### Units BEng route

#### Year 1

Introduction to programming in MATLAB; Electronic laboratory techniques and professional engineering practice 1; Circuit theory; Engineering physics; Mathematics 1; Signals, systems and communications; Microprocessors and interfacing; Digital electronics; Mathematics 2; Electronic systems design and manufacture 1

#### Year 2

Electronic devices and circuits; Digital systems design; Signal processing; Structured programming; Electromagnetics; Communication principles; Electronic systems design and manufacture 2; Electrical systems and power electronics; Group design and professional engineering practice 2; Control systems

#### Placement

#### Final year

BEng group project; BEng individual project; Plus optional units

### Units MEng Route

#### Year 1

Introduction to programming in MATLAB; Electronic laboratory techniques and professional engineering practice 1; Circuit theory; Engineering physics; Mathematics 1; Signals, systems and communications; Microprocessors and interfacing; Digital electronics; Mathematics 2; Electronic systems design and manufacture 1

#### Year 2

Electronic devices and circuits; Digital systems design; Signal processing; Structured programming; Electromagnetics; Communication principles; Electronic systems design and manufacture 2; Electrical systems and power electronics; Group design and professional engineering practice 2; Control systems

#### Placement

#### Penultimate year

Group design and business project 1; Group design and business project 2; Plus optional units

#### Final year

MEng individual project; Plus optional units

### Professional accreditations

- **BEng:** Accredited by the Institute of Engineering and Technology, licensed by the Engineering Council, as partly satisfying the educational requirements for a Chartered Engineer.
- **MEng:** Accredited by the Institute of Engineering and Technology, licensed by the Engineering Council, to fulfil the educational requirements for a Chartered Engineer.

### Placements

Going on placement lets you apply theoretical knowledge to the workplace and develop skills in a professional environment. Your placement experience can benefit the rest of your degree and boost your career prospects after graduation. It is also an opportunity to earn a salary during your degree.

Our students have worked at companies including Intel, Jaguar Land Rover, Thales and McLaren Electronics.

You can decide whether going on placement is right for you up until the end of your second year.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Essay
- Oral assessment
- Practical work
- Written examination

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 35% of your time in a lecture, seminar or practical/lab setting and 65% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or A\*AB

#### Entry requirements

##### GCSE

4 or C in English (or equivalent from category C – see page 30).

##### A level

AAA or A\*AB including A in Mathematics a second science or technology subject.

##### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in Mathematics and a second science or technology subject.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/electrical-elec-eng](http://go.bath.ac.uk/electrical-elec-eng)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Electrical Power Engineering

- H630 | BEng (Hons) Three years  
 H631 | BEng (Hons) Four years including placement year  
 H632 | MEng (Hons) Four years  
 H633 | MEng (Hons) Five years including placement year

### Gain the theoretical and practical skills in power generation and distribution to pursue a career in electrical power industries.

Our course develops your expertise in areas where power engineers are in demand such as smart grids, micro-generation and renewable energy.

Your first two years provide you with a grounding in the principles of electrical engineering science before specialising in power engineering. You'll develop an understanding of the technical, industrial and economic challenges of designing and manufacturing modern electrical power devices and systems. Combining theory and practice, you'll learn how to use advanced technologies to conceptualise, design and operate power and energy systems.

Project work is a key part of your study experience at Bath. Industry-focused group and individual projects give you the opportunity to put theory into practice. They also help you develop other professional skills in management, communication and business. You could work on specialist topics such as smart metering, electrical drives, or advanced signal processing. The technical, teamwork and management knowledge you gain will prepare you for a career in the power industry.

Our partnership with the Institute of Engineering and Technology (IET) Power Academy gives you access to scholarships and placements with top companies.

If you want a more in-depth study experience, you could consider applying for our MEng courses in Electrical Power Engineering. Your four years of study will include more advanced taught units and semester-long individual and group project work. Taking this route also gives you the educational requirements you need to become a Chartered Engineer.

### Units BEng route

#### Year 1

Introduction to programming in MATLAB; Electronic laboratory techniques and professional engineering practice 1; Circuit theory; Engineering physics; Mathematics 1; Signals, systems and communications; Microprocessors and interfacing; Digital electronics; Mathematics 2; Electronic systems design and manufacture 1

#### Year 2

Electronic devices and circuits; Digital systems design; Signal processing; Structured programming; Electromagnetics; Communication principles; Electronic systems design and manufacture 2; Electrical systems and power electronics; Group design and professional engineering practice 2; Control systems

#### Placement

#### Final year

Control engineering; Power electronics and drives; Power system plant; Power system fundamentals; BEng Group project; BEng Individual project; Plus optional units

### Units MEng Route

#### Year 1

Introduction to programming in MATLAB; Electronic laboratory techniques and professional engineering practice 1; Circuit theory; Engineering physics; Mathematics 1; Signals, systems and communications; Microprocessors and interfacing; Digital electronics; Mathematics 2; Electronic systems design and manufacture 1

#### Year 2

Electronic devices and circuits; Digital systems design; Signal processing; Structured programming; Electromagnetics; Communication principles; Electronic systems design and manufacture 2; Electrical systems and power electronics; Group design and professional engineering practice 2; Control systems

#### Placement

#### Penultimate year

Control engineering; Power electronics and drives; Power system plant; Power system fundamentals; Group design and business project 1; Group design and business project 2; Plus optional units

#### Final year

Energy management systems; Power electronics and machines; Power system protection; MEng individual project; Plus optional units

### Professional accreditations

- BEng:** Accredited by the Institute of Engineering and Technology, licensed by the Engineering Council, as partly satisfying the educational requirements for a Chartered Engineer.
- MEng:** Accredited by the Institute of Engineering and Technology, licensed by the Engineering Council, to fulfil the educational requirements for a Chartered Engineer.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/electrical-elec-eng](http://go.bath.ac.uk/electrical-elec-eng)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

### Placements

Going on placement lets you apply theoretical knowledge to the workplace and develop skills in a professional environment. Your placement experience can benefit the rest of your degree and boost your career prospects after graduation. It is also an opportunity to earn a salary during your degree.

Our students have worked at companies including RWE npower, Visteon and National Grid.

You can decide whether going on placement is right for you up until the end of your second year.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Essay
- Oral assessment
- Practical work
- Written examination

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 35% of your time in a lecture, seminar or practical/lab setting and 65% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or A\*AB

#### Entry requirements

##### GCSE

4 or C in English (or equivalent from category C – see page 30).

##### A level

AAA or A\*AB including A in Mathematics a second science or technology subject.

##### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in Mathematics and a second science or technology subject.

## Electronic Engineering with Space Science and Technology

H6H4 | BEng (Hons) Three years

H6H7 | BEng (Hons) Four years including placement year

H6HK | MEng (Hons) Four years

H6H5 | MEng (Hons) Five years including placement year

### Design, operate and build electronic systems for the space environment. Gain the engineering skills needed for a career in the space industry.

Our course takes you beyond the conventional engineering challenges of designing equipment for use on Earth's surface. You'll develop the skills needed to design and build systems and vehicles for the hostile space environment.

Your first two years develop your knowledge of the principles of electrical engineering science before specialising in space science and technology. You'll study electronics and communications technologies with elements of space and planetary science. Your learning will be informed by the latest theory and practice in spacecraft engineering, space electronics, Earth observation, the space environment and weather.

You'll have opportunities to put what you learn in lectures into practice through project work. Group and individual projects give you the chance to work on specialist topics such as systems-level designs for satellites and planetary landers. You'll apply business, teamwork and management skills to solve industry-focused engineering challenges. Your ability to combine professional and technical engineering knowledge will prepare you for a career in the space industry.

#### Units BEng route

##### Year 1

Introduction to programming in MATLAB; Electronic laboratory techniques and professional engineering practice 1; Circuit theory; Engineering physics; Mathematics 1; Signals, systems and communications; Microprocessors and interfacing; Digital electronics; Mathematics 2; Electronic systems design and manufacture 1

##### Year 2

Electronic devices and circuits; Digital systems design; Signal processing; Structured programming; Electromagnetics; Communication principles; Electronic systems design and manufacture 2; Electrical systems and power electronics; Group design and professional engineering practice 2; Control systems

#### Placement

##### Final year

Digital networks and protocols; Radio and optical waves for communication; Spacecraft systems engineering; BEng Group project; BEng Individual project; Plus optional units

#### Units MEng Route

##### Year 1

Introduction to programming in MATLAB; Electronic laboratory techniques and professional engineering practice 1; Circuit theory; Engineering physics; Mathematics 1; Signals, systems and communications; Microprocessors and interfacing; Digital electronics; Mathematics 2; Electronic systems design and manufacture 1

##### Year 2

Electronic devices and circuits; Digital systems design; Signal processing; Structured programming; Electromagnetics; Communication principles; Electronic systems design and manufacture 2; Electrical systems and power electronics; Group design and professional engineering practice 2; Control systems

#### Placement

##### Penultimate year

Digital networks and protocols; Radio and optical waves for communication; Spacecraft systems engineering; Group design and business project 1; Group design and business project 2; Plus optional units

##### Final year

Satellite, terrestrial and mobile communication systems; Radar systems and remote sensing; Satellite based navigation systems; MEng Individual project; Plus optional units

#### Professional accreditations

- **BEng:** Accredited by the Institute of Engineering and Technology, licensed by the Engineering Council, as partly satisfying the educational requirements for a Chartered Engineer.
- **MEng:** Accredited by the Institute of Engineering and Technology, licensed by the Engineering Council, to fulfil the educational requirements for a Chartered Engineer.

#### Placements

Going on placement gives you the chance to apply your theoretical knowledge to the workplace. Having professional experience can benefit the rest of your degree as well as improve your career prospects. It is also an opportunity to earn a salary during your degree.

Our students have worked at companies including Intel, Surrey Satellite Technology, Samsung and Siemens.

You can decide whether going on placement is right for you up until the end of your second year.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

#### Assessment methods

- Coursework
- Essay
- Oral assessment
- Practical work
- Written examination

#### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

#### Contact time with staff\*

In your first year, you should expect to spend 35% of your time in a lecture, seminar or practical/lab setting and 65% of the time in independent study. Your unit option choices will determine your future contact hours.

#### Typical offer: AAA or A\*AB

#### Entry requirements

##### GCSE

4 or C in English (or equivalent from category C – see page 30).

##### A level

AAA or A\*AB including A in Mathematics a second science or technology subject.

##### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in Mathematics and a second science or technology subject.

#### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/electrical-elec-eng](http://go.bath.ac.uk/electrical-elec-eng)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019



# Electronic Systems Engineering

|      |  |   |
|------|--|---|
| H640 |  | BEng (Hons) Three years                         |
| H641 |  | BEng (Hons) Four years including placement year |
| H622 |  | MEng (Hons) Four years                          |
| H623 |  | MEng (Hons) Five years including placement year |

## Become an expert in electronic hardware and systems. Develop the technical skills and initiative to make an impact as a professional electronics engineer.

Our course gives you a combination of fundamental skills in electronic engineering with advanced knowledge of systems engineering.

You'll design, make and test electronic systems and get hands-on experience in integrated circuit design and advanced printed circuit boards. Throughout your study, you'll develop a strong theoretical and practical knowledge of the subject. This basis will help you become proficient in a range of systems including marine, land and airborne platforms, embedded software systems, and navigation systems. You can gain professional experience by going on placement during your degree.

Group and individual projects are a key feature of your degree. They encourage you to explore new areas of engineering while solving industry-focused challenges. You could specialise in topics such as sensors, autonomous systems or electric vehicles. The technical, teamwork and management skills you gain will prepare you for a career as a systems engineer in industry.

Our partnership with the UK Electronics Skills Foundation gives you access to scholarships with leading companies such as ARM, Ericsson and Qualcomm.

If you want a more in-depth study experience, you could consider applying for our MEng courses. Your four years of study will include more advanced taught units and semester-long individual and group project work. Taking this route also gives you the educational requirements you need to become a Chartered Engineer.

### Units BEng route

#### Year 1

Introduction to programming in MATLAB; Electronic laboratory techniques and professional engineering practice 1; Circuit theory; Engineering physics; Mathematics 1; Signals, systems and communications; Microprocessors and interfacing; Digital electronics; Mathematics 2; Electronic systems design and manufacture 1

#### Year 2

Electronic devices and circuits; Digital systems design; Signal processing; Structured programming; Electromagnetics; Communication principles; Electronic systems design and manufacture 2; Electrical systems and power electronics; Group design and professional engineering practice 2; Control systems

#### Placement

#### Final year

Microelectronic systems; BEng Group project; BEng Individual project; Plus optional units

### Units MEng Route

#### Year 1

Introduction to programming in MATLAB; Electronic laboratory techniques and professional engineering practice 1; Circuit theory; Engineering physics; Mathematics 1; Signals, systems and communications; Microprocessors and interfacing; Digital electronics; Mathematics 2; Electronic systems design and manufacture 1

#### Year 2

Electronic devices and circuits; Digital systems design; Signal processing; Structured programming; Electromagnetics; Communication principles; Electronic systems design and manufacture 2; Electrical systems and power electronics; Group design and professional engineering practice 2; Control systems

#### Placement

#### Penultimate year

Microelectronic systems; Group design and business project 1; Group design and business project 2; Plus optional units

#### Final year

Advanced microelectronic system design; MEng individual project; Plus optional units

### Professional accreditations

- **BEng:** Accredited by the Institute of Engineering and Technology, licensed by the Engineering Council, as partly satisfying the educational requirements for a Chartered Engineer.
- **MEng:** Accredited by the Institute of Engineering and Technology, licensed by the Engineering Council, to fulfil the educational requirements for a Chartered Engineer.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/electrical-elec-eng](http://go.bath.ac.uk/electrical-elec-eng)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

### Placements

Going on placement lets you apply theoretical knowledge to the workplace and develop skills in a professional environment. Your placement experience can benefit the rest of your degree and boost your career prospects after graduation. It is also an opportunity to earn a salary during your degree.

Our links with industry mean that we have access to placement opportunities with major companies, smaller businesses and government research organisations. Our students have worked at companies including Intel, Motorola, Orange and Thales.

You can decide whether going on placement is right for you up until the end of your second year.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Essay
- Oral assessment
- Practical work
- Written examination

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 35% of your time in a lecture, seminar or practical/lab setting and 65% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or A\*AB

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category C – see page 30).

#### A level

AAA or A\*AB including A in Mathematics a second science or technology subject.

#### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in Mathematics and a second science or technology subject.

## Robotics Engineering

H652 | MEng (Hons) Four years  
 H653 | MEng (Hons) Five years including placement year

### Be part of the robotics revolution. Study a progressive area of engineering to pursue a career in robotics and automation.

Our course is for aspiring engineers who want to contribute to the future of an expanding industry. You'll advance your knowledge in areas of robotics, artificial intelligence and electronics systems at the forefront of engineering and design.

In your first two years, you'll learn the underlying principles of electronic, electrical and mechanical engineering. You'll combine this with aspects of computer science to give you a comprehensive overview of robotics engineering.

Project work is central to your learning experience and helps you develop your technical design skills. Group projects challenge you to work in teams to solve practical engineering problems. As well as gaining hands-on experience, you'll also develop valuable managerial and business skills. You can join one of our student teams who compete annually. These include Team Bath Racing Electric, Bath Drones and the autonomous underwater systems team.

When you graduate, you'll have an in-depth understanding of the operation, components and techniques of robotics engineering. Your studies will prepare you for a career in robotics and automation in areas such as robotic systems design, autonomous systems and medical robotics.

Studying an MEng gives you a more in-depth study experience through advanced taught units and semester-long individual and group project work.

### Units

#### Year 1

Introduction to programming in MATLAB; Solid mechanics 1; Circuit theory; Robotics design; Mathematics 1; Signals, systems and communications; Microprocessors and interfacing; Digital electronics; Robotics and mechatronic systems; Mathematics 2

#### Year 2

Electronic devices and circuits; Digital systems design; Signal processing; Design and manufacture of electromechanical systems; Electromagnetics; Communication principles; Solid mechanics 2; Electrical systems and power electronics; Artificial intelligence; Integrated control system design

#### Placement

#### Penultimate year

Robotics and autonomous systems; Group design and business project 1; Group design and business project 2; Plus optional units

#### Final year

Robotics Engineering; MEng individual project; Plus optional units

Here are some examples of the units currently being studied by our students:

- Spacecraft systems engineering
- Integrated engineering
- Biosensors and bioelectronics
- Electrical vehicle design
- Biomimetics

### Placements

Going on placement gives you the chance to apply your theoretical knowledge to the workplace and learn about the technologies and processes used in industry. Having professional experience can benefit the rest of your degree as well as improve your career prospects. It is also an opportunity to earn a salary during your degree.

You can decide on whether going on placement is right for you up until the end of your second year.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Seminar
- Written examination

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 33% of your time in a lecture, seminar or practical/lab setting and 67% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or A\*AB

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category C – see page 30).

#### A level

AAA or A\*AB including A in Mathematics and Physics.

#### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in Mathematics and Physics.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/electrical-elec-eng](http://go.bath.ac.uk/electrical-elec-eng)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Integrated mechanical and electrical engineering

**95%** overall student satisfaction for Integrated Mechanical and Electrical Engineering in the National Student Survey (NSS) 2017

**Joint 1st** for career after six months in electrical and electronic engineering in the Guardian University Guide 2018

**Awarded TEF Gold** for excellence in undergraduate teaching

#### Course for this subject

- Integrated Mechanical and Electrical Engineering

**This subject combines the core elements of both engineering sciences. Learn about the design and manufacture of electrical and mechanical devices, technologies and systems.**

Mechanical and electrical engineering underpin many of the modern technologies we use. They support the infrastructure of our lives: transport, energy, communication.

To advance these technologies, industries need more from their engineers than expertise in one discipline. They want graduates who understand how to combine mechanical and electrical engineering to tackle complex problems.

Our course brings together these two subjects to give you the multidisciplinary skills needed to work in engineering industries and research worldwide.

When you graduate, you'll have the integrated knowledge to make a valuable contribution to a range of industries. You could be developing the next electric car, designing unmanned air vehicles for humanitarian aid, or finding ways to make sustainable energies more efficient.

#### Teaching

You'll learn from academics with expertise in mechanical and electrical engineering across a wide range of areas. These include biomechanics control, tomography, automotive engineering, and advanced sensors. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

#### Careers

We work with industrial partners to make sure our course content reflects the needs of engineering industries. When you graduate, you'll have the interdisciplinary skills needed across a wide range of engineering professions. You could go on to pursue successful careers

in high-technology industries including electronics, power, automotive, robotics, aerospace or manufacturing. Some of our graduates continue their studies with us or at other universities for a career in academia or research.

#### Facilities

You'll have access to facilities specially equipped for the application of electrical and mechanical engineering. Our laboratories are designed to be similar to industrial work spaces so you gain an insight into what it is like to work in a professional environment. These include laboratories for electric vehicles, robotics and autonomous systems design, rapid prototyping and a mechanical workshop.

#### Have you thought about...?

- Electrical and Electronic Engineering - see page 70
- Mechanical Engineering - see page 91
- Integrated Design Engineering - see page 90
- Robotics Engineering - see page 74



“The course offered me lots of options and exposure to up-and-coming technologies. I felt it would open more doors for me than a single-discipline degree.”

Will Smith, MEng Integrated Mechanical and Electrical Engineering

## Integrated mechanical and electrical engineering

HHJ6 | MEng (Hons) Four years

HH3Q | MEng (Hons) Five years including placement year

### Develop a core knowledge of systems engineering across both mechanical and electrical engineering to boost your career prospects in industry.

Our course gives you a unique chance to balance an understanding of mechanical, electrical and electronic engineering sciences with a focus on systems engineering. You'll develop a comprehensive knowledge of mechanics, materials, electrical and electronic systems and circuits. And you'll explore the theory and practice of modern mechanical and electrical technologies.

Being able to apply what you've learnt is an important part of your study at Bath. You'll use theory in coordinated projects and laboratory work where you'll design and develop products and systems.

Group and individual projects are a chance to explore creative approaches to engineering problems. You could design and build robotics, medical devices or sports and games equipment. You'll also develop valuable skills to add to your technical and scientific knowledge. The teamwork, problem solving and management experience you gain will prepare you for working in professional environments.

Studying an MEng degree gives you a more in-depth study experience through advanced taught units and semester-long individual and group project work. It also meets the educational requirements you need to become a Chartered Engineer.

### Units

#### Year 1

Circuit theory; Mathematics 1; Thermodynamics; Solid mechanics 1; Robotics design 1; Digital electronics; Robotics and mechatronic systems; Mathematics 2; Solid mechanics 2; Integrated design and materials

#### Year 2

Electronic devices and circuits; Digital systems design; Electromagnetics; Modelling techniques 1; Design and manufacture of electromechanical systems; Signals, systems and communications; Electrical systems and power electronics; Integrated control systems design; Fluid mechanics; Modelling techniques 2

### Placement

#### Penultimate year

Control engineering; Power electronics and drives; Integrated engineering; Mechanical engineering group business and design project 1 and Mechanical engineering group business and design project 2

#### OR

Electrical engineering group design and business project 1 and Electrical engineering group design and business project 2

#### OR

Aerospace group business and design project 1 and Aerospace group business and design project 2

#### OR

External integrated project unit (if approved by the Director of Studies)

Plus optional units

#### Final year

Robotics engineering; Integrated engineering final year project; Plus optional units

### Professional accreditations

- Accredited by the Institute of Engineering and Technology, licensed by the Engineering Council, to fulfil the educational requirements for a Chartered Engineer.
- Accredited by the Institution of Mechanical Engineers (IMechE), licensed by the Engineering Council, to fully meet the academic requirements for a Chartered Engineer.

### Placements

Going on placement gives you the chance to apply your theoretical knowledge to the workplace and learn about the technologies and processes used in industry. It is also an opportunity to earn a salary during your degree. You'll develop your skills in a professional environment and learn about sophisticated engineering systems. This experience can benefit the rest of your degree as well as improve your career prospects.

Our students have worked at companies including OC Robotics, Renishaw, BAE Systems and Jaguar Land Rover.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Seminar
- Written examination

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 33% of your time in a lecture, seminar or practical/lab setting and 67% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or A\*AB

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category C – see page 30).

#### A level

AAA or A\*AB including A in Mathematics and Physics.

#### International Baccalaureate

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in Mathematics and Physics.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/int-mech-elec](http://go.bath.ac.uk/int-mech-elec)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# International development

**Top 50** for Development Studies in the QS World University Rankings 2017

## Course for this subject

- International Development with Economics

**International development concerns the global challenge of how to enable people to live secure and fulfilled lives, particularly those in poorer regions.**

Why is rising material prosperity not shared equally amongst the world's nations and people? Are current ways of living and models of growth sustainable?

The study of international development examines and finds solutions to these issues. You'll explore case studies and research relating to Africa, Asia and Latin America.

You'll become proficient in analysing development-related problems from a range of disciplinary perspectives and working with different kinds of data.

You will acquire skills in applying economic, social and political theories to development problems, which are relevant to working in many fields.

## Teaching

You'll learn from academics with expertise in international development. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

## Careers

The study of international development will provide you with an academic foundation for a career in a range of fields. These could include: governmental and international agencies, non-governmental

organisations, development consultancies, international businesses (especially in emerging markets). It also provides a solid foundation for postgraduate training for journalism, teaching and business.

## Facilities

You will be able to benefit from the research taking place within our Centre for Development Studies. This will allow you to engage with research informing international policy and practice.

## Have you thought about...?

- Politics with Economics - see page 108
- International Management - see page 43
- Social Policy - see page 115



"I've enjoyed drawing on lots of different subject areas. The interdisciplinary nature of it means I get to follow things I find really interesting in many different fields."

Robin Guy, BSc International Development with Economics

## International Development with Economics

53H3 | BSc (Hons) Three years

L407 | BSc (Hons) Four years including placement year

**Understand the opportunities and constraints to international development. Explore the study of economic, political, social and anthropological aspects.**

This is an interdisciplinary degree where you will study the economic, political and social aspects of development. During the course you will be able to specialise in any of these aspects according to your interests. A focus on economics is maintained throughout because of its importance to international development as a field of work and the transferable work skills it provides.

In the first year you'll gain an understanding of international development from a range of disciplinary perspectives.

In the second year you will develop qualitative and quantitative skills with more advanced theoretical perspectives. You will apply these to a range of contexts and development challenges.

The final year allows you to specialise and select topics that most interest you. You will apply practical and research skills and perspectives to current problems of development. You can also maintain a focus on economic analysis.

### Units

#### Year 1

- Introductory economics
- Introduction to international development
- Thinking and working cross-culturally: introduction to social analysis of development
- The modern world economy
- Academic and research skills 1: introduction to qualitative methods
- Development economics: microeconomic perspective
- Introduction to politics of development
- Academic and research skills 2: introduction to quantitative methods

#### Year 2

- Qualitative social research methods
- Researching social change
- Development economics: macroeconomic perspective
- Quantitative data analysis
- International politics of development
- Development policy and practice
- Plus optional units

### Placement

#### Final year

- International development dissertation
- Global inequality: economic and political perspectives
- Development finance
- Plus optional units

Examples of current optional units:

- International development fieldwork project
- Civil society and NGOs in the developing world
- The social science of climate change
- Understanding migrations: between transnational governance and lived experience
- Social policy, welfare and the state.

### Placements

The placement year offers you valuable real life experience of issues that you will have been studying. A year of professional work is highly valued by employers and may give you a strong advantage in the competitive job market when you graduate.

You can take placements in a governmental organisation or a non-governmental organisation (NGO) to match your personal and academic interests.

Our students have taken placements at: Development Initiatives, Londell Mills, World Hope International, HSBC and the Good Economy partnership.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Seminar
- Written examination
- Other

### Delivery methods

- Lectures
- Tutorials

### Contact time with staff\*

In your first year, you should expect to spend 22% of your time in a lecture or seminar setting and 78% of the time in independent study. Your unit option choices will determine your future contact hours.

### Extra costs

The following course-related costs are not included in your fees: Optional Field Trip - You will have the opportunity to go on an optional overseas fieldwork trip in your final year, which you will be expected to pay for.

### Typical offer: AAB

### Entry requirements

#### GCSE

7 or A in Mathematics and 6 or B in English (or equivalent from category A – see page 30).

#### A level

AAB in three A levels.

We prefer applicants who have studied a humanities or social sciences subject, such as Economics, History, Religious Studies, Geography, Sociology, Politics, Philosophy or Psychology.

#### International Baccalaureate Diploma

36 points and 6, 6, 5 in three Higher Level subjects.

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/int-dev-econ](http://go.bath.ac.uk/int-dev-econ)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Modern languages

**Top ten** for Graduate Prospects for French, German, Iberian Languages and Italian in The Times and Sunday Times Good University Guide 2018

**Joint 3rd** for Career after six months for Modern Languages and Linguistics in The Guardian University Guide 2018

**Top ten** for Graduate Prospects for French, German, Iberian Languages and Italian in The Complete University Guide 2018

## Courses for this subject

- Modern Languages and European Studies (French and *ab initio* Italian)
- Modern Languages and European Studies (French and German)
- Modern Languages and European Studies (French and Spanish)
- Modern Languages and European Studies (German and *ab initio* Italian)
- Modern Languages and European Studies (German and Spanish)
- Modern Languages and European Studies (Spanish and *ab initio* Italian)

## Languages are passports to life enabling you to become a global citizen. You'll foster communication and broaden your knowledge of cultures and perspectives.

The study of a foreign language enables you to pursue many job opportunities overseas. You will be able to read, write, listen and speak proficiently in the language of your chosen country.

Our languages include French, German, Spanish, and *ab initio* (for newcomers) Italian. All our language courses will enable you to achieve fluency in your chosen languages. We believe that your learning will be at its best through total immersion in your chosen language. For this reason, we teach almost all our courses and units in the target language and you will spend your third year abroad.

We have expertise on the present issues facing Europe and areas beyond such as Latin America. You will study the culture and explore the history and values of your countries of study.

## Teaching

You'll learn from academics with expertise in contemporary topics across culture, politics and modern languages. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

You'll benefit from exposure to the research of our staff which includes: cultural identity across Europe, conflict and security, and extreme right parties.

## Careers

Our graduate career paths are wide-ranging. Some become professional linguists, working as teachers or as translators and interpreters in the European Parliament. Most find work in public and private sector institutions, where their communication skills and cultural and social awareness are highly valued.

Recent graduates have found work at: Oxford University Press, Active Communications International, Teach First, Financial Times, KPMG and JDX Consulting. A high number of students choose to go directly into employment, while some pursue further study.

## Have you thought about...?

- Language and Politics - see pages 105-106
- International Management and Modern Languages - see page 44



"The high quality of teaching provided, along with the grammar, oral and written classes taught by enthusiastic native speakers, enabled me to become trilingual by the time I graduated."

Stefan Brett, BA Modern Languages and European Studies (French and Spanish)

## Modern Languages and European Studies

Full degree listing on pages 81-82

### Achieve fluency in two languages. You'll also develop your knowledge and understanding of political and cultural issues.

This degree will immerse you in both the culture and society of your chosen languages. Throughout the course, you will mostly be taught in your chosen languages.

The course has a contemporary focus. You will study recent novels and films from your chosen countries. You'll explore the evolution of politics and the current political environment within these cultures. You will develop your skills to enable you to conduct research and analysis. Your communication and debating skills will improve to an advanced level.

In the first two years you will study the politics, culture and society of your chosen countries. Teaching will develop your knowledge of the current political and cultural issues facing European nations and beyond.

During the third year you will spend a year abroad. The year abroad assessment contributes towards your final degree classification.

In the final year you will be able to take optional units in the culture or politics of your chosen countries. These units are research-led and have a contemporary focus.

### Compulsory year abroad

On your year abroad you will spend time in the countries of your chosen languages either within Europe or beyond. You can spend your time on a study placement at a foreign university (usually an exchange with one of our Erasmus+ or other international partners), as a language assistant in a school, or on a work placement. You can also have the flexibility of a combination of any of these options.

Our dedicated and experienced Placements Officer will support and guide you through the recruitment process to gain your placement. Our students have completed a wide variety of interesting placements as part of their year abroad. Some examples include: Institute of Political Studies (Strasbourg and Paris), University of Siena (Italy), National University of General San Martin (Argentina), GE Power (France), European Parliament (Luxembourg), IT Comunicación (Spain), Di Palma Associati (Italy), Fujitsu (Germany), Belgian Embassy (Chile), The Bubble (Argentina).

### Assessment methods

- Coursework
- Dissertation
- Essay
- Oral assessment
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars

### Typical offer: AAB-ABB

#### Entry requirements

##### GCSE

4 or C in English (or equivalent from category C – see page 30).

For any of these degrees you may be considered if you are taking one of your chosen languages at Standard Level.

#### French and *ab initio* Italian

**A level:** ABB including A in French.

**International Baccalaureate:** 35 points and 6, 5, 5 in three Higher Level subjects including 6 in French.

#### French and German

**A level:** ABB including French and German with A in French or German.

**International Baccalaureate:** 35 points and 6,5,5 in three Higher Level subjects including French and German with 6 in French or German.

#### French and Spanish

**A level:** AAB including French and Spanish.

**International Baccalaureate:** 35 points and 6, 6, 5 in three Higher Level subjects including French and Spanish.

#### German and *ab initio* Italian

**A level:** ABB including A in German.

**International Baccalaureate:** 35 points and 6, 5, 5 in three Higher Level subjects including 6 in German.

#### German and Spanish

**A level:** ABB including German and Spanish with A in German or Spanish.

**International Baccalaureate:** 35 points and 6, 5, 5 in three Higher Level subjects including German and Spanish with 6 in German or Spanish.

#### Spanish and *ab initio* Italian

**A level:** ABB including A in Spanish.

**International Baccalaureate:** 35 points and 6, 5, 5 in three Higher Level subjects including 6 in Spanish.

#### Contact time with staff\*

The time that you spend in a lecture or seminar setting will vary according to the languages that you choose to study, and also on the units that you select. Please see below for course-specific information about contact time in your first year. Your unit options will determine your future contact hours.

In your first year, you should expect to spend 23% of your time in a lecture or seminar setting and 77% of the time in independent study.

In your first year, you should expect to spend 20% of your time in a lecture or seminar setting and 80% of the time in independent study.

In your first year, you should expect to spend 21% of your time in a lecture or seminar setting and 79% of the time in independent study.

In your first year, you should expect to spend 23% of your time in a lecture or seminar setting and 77% of the time in independent study.

In your first year, you should expect to spend 21% of your time in a lecture or seminar setting and 79% of the time in independent study.

In your first year, you should expect to spend 23% of your time in a lecture or seminar setting and 77% of the time in independent study.

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/mod-lang-euro](http://go.bath.ac.uk/mod-lang-euro)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019



RR1H | BA (Hons) Modern Languages and European Studies (French and *ab initio* Italian)  
Four years including year abroad

### Units

#### Year 1

Europe since 1789; France and the Revolution(s): 1789-1968; The making and shaping of a new nation-state: Italy 1815-1945; French written and spoken language 1; Italian written and spoken language 1 (*ab initio*)

#### Year 2

Italy since 1945: politics, culture and society; Continuity and change in contemporary French politics and society, 1969 to today; French written and spoken language 2; Italian written and spoken language 2; European integration; Research design and methods in Modern languages and European studies

Year 3 - Year abroad

#### Year 4

French written and spoken language 3; Italian written and spoken language 3; Modern languages and European studies dissertation; Plus optional units

RR12 | BA (Hons) Modern Languages and European Studies (French and German)  
Four years including year abroad

### Units

#### Year 1

Europe since 1789; France and the Revolution(s): 1789-1968; Deutschland 1871 bis 1989; French written and spoken language 1; German written and spoken language 1

#### Year 2

Continuity and change in contemporary French politics and society, 1969 to today; Die DDR und das vereinigte Deutschland; French written and spoken language 2; German written and spoken language 2; European integration; Research design and methods in Modern languages and European studies

Year 3 - Year abroad

#### Year 4

French written and spoken language 3; German written and spoken language 3; Modern languages and European studies dissertation; Plus optional units

RR14 | BA (Hons) Modern Languages and European Studies (French and Spanish)  
Four years including year abroad

### Units

#### Year 1

Europe since 1789; France and the Revolution(s): 1789-1968; Spain from 1898 to the present; French written and spoken language 1; Spanish written and spoken language 1

#### Year 2

Introduction to 20th and 21st century Latin America; Continuity and change in contemporary French politics and society, 1969 to today; French written and spoken language 2; Spanish written and spoken language 2; European integration; Research design and methods in Modern languages and European studies

Year 3 - Year abroad

#### Year 4

French written and spoken language 3; Spanish written and spoken language 3; Modern languages and European studies dissertation; Plus optional units

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/mod-lang-euro](http://go.bath.ac.uk/mod-lang-euro)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

RR2H | BA (Hons) Modern Languages and European Studies (German and *ab initio* Italian)  
Four years including year abroad

### Units

#### Year 1

Europe since 1789; The making and shaping of a new nation-state: Italy 1815-1945; Deutschland 1871 bis 1989; German written and spoken language 1; Italian written and spoken language 1 (*ab initio*)

#### Year 2

Italy since 1945: politics, culture and society; Die DDR und das vereinigte Deutschland; German written and spoken language 2; Italian written and spoken language 2; European integration; Research design and methods in Modern languages and European studies

Year 3 - Year abroad

#### Year 4

German written and spoken language 3; Italian written and spoken language 3; Modern languages and European studies dissertation; Plus optional units

RR24 | BA (Hons) Modern Languages and European Studies (German and Spanish)  
Four years including year abroad

### Units

#### Year 1

Europe since 1789; Spain from 1898 to the present; Deutschland 1871 bis 1989; German written and spoken language 1; Spanish written and spoken language 1

#### Year 2

Introduction to 20th and 21st century Latin America; Die DDR und das vereinigte Deutschland; German written and spoken language 2; Spanish written and spoken language 2; European integration; Research design and methods in Modern languages and European studies

Year 3 - Year abroad

#### Year 4

German written and spoken language 3; Spanish written and spoken language 3; Modern languages and European studies dissertation; Plus optional units

RR4H | BA (Hons) Modern Languages and European Studies (Spanish and *ab initio* Italian)  
Four years including year abroad

### Units

#### Year 1

Europe since 1789; The making and shaping of a new nation-state: Italy 1815-1945; Spain from 1898 to the present; Spanish written and spoken language 1; Italian written and spoken language 1 (*ab initio*)

#### Year 2

Introduction to 20th and 21st century Latin America; Italy since 1945: politics, culture and society; Spanish written and spoken language 2; Italian written and spoken language 2; European integration; Research design and methods in Modern languages and European studies

Year 3 - Year abroad

#### Year 4

Spanish written and spoken language 3; Italian written and spoken language 3; Modern languages and European studies dissertation; Plus optional units

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/mod-lang-euro](http://go.bath.ac.uk/mod-lang-euro)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Mathematical sciences

**90%** student satisfaction rate in the National Student Survey 2017

**Top 5** for graduate prospects for mathematics in the Complete University Guide 2018

**Top ten** for mathematics in the Complete University Guide 2018

#### Courses for this subject

- Mathematical Sciences
- Mathematics
- Mathematics and Statistics
- Statistics

## Mathematics and statistics underlie all the physical sciences and are increasingly important to social sciences and management.

During the course, you'll develop a broad and balanced foundation of knowledge, theoretical understanding and practical skills in mathematics, statistics and computing. You'll put your mathematical knowledge and skills into practice to solve problems.

### Teaching

You'll learn from academics with expertise in different areas of mathematical sciences, including algebra and geometry, analysis, applied and interdisciplinary mathematics, numerical analysis and scientific computing, statistics and probability. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

### Careers

You'll be able to go into a wide variety of careers including teaching, in the finance sector as an accountant, actuary or analyst, or as a statistician in government. You'll also be well suited to roles developing software in commerce or the technology sector.

Recent employers include Aviva, British Telecom, Deloitte, EY, PwC and Tate & Lyle. Many of our graduates also choose to go on to postgraduate study in preparation for academic or industry-based research careers.

### Facilities

You'll be able to access our Maths and Statistics Help (MASH) centre to get help with revision, tests and coursework. A final-year option provides the opportunity to use our high-performance computing facility 'Balena', which can perform over 110 trillion calculations a second.

You'll also be supported during your studies by regular small group tutorials and one-to-one meetings with a Personal Tutor. 92% of mathematical sciences students agreed they were able to contact staff when they needed to (National Student Survey 2017).

### Have you thought about...?

- Computer Science and Mathematics - see page 58
- Economics and Mathematics - see page 64
- Mathematics and Physics - see page 101



"The wide range of modules gives you the opportunity to head down a multitude of career paths. I joined the placement scheme and spent a year with GlaxoSmithKline, working as a Clinical Statistician."

Tom Hadfield, BSc Mathematics including placement year

## Mathematical Sciences

- G140 | BSc (Hons) Three years  
 G141 | BSc (Hons) Four years including placement year  
 G142 | BSc (Hons) Four years including study year abroad

### Develop a broad foundation of theory and practical skills in mathematics, statistics and computing, preparing you for specialist and non-specialist careers.

Mathematical Sciences combines traditional mathematics with statistics and computing. This course is for you if you'd like to keep your options open and study a broader range of topics.

In the first two years, you'll gain an introduction to mathematics at university-level before choosing areas that you'd like to specialise in later in the course. In Year two, you will also have the option to study computing, physics and economics units run by other departments. As with all of our mathematics courses, you will have the option to switch after the first year, so you can keep your options open when you apply.

You'll develop the knowledge and practical skills appropriate to a technical career as well as receiving good training in analytical thinking. This combination means you will also be well-suited to non-specialist careers such as computing, financial services and management.

### Units

#### Year 1

- Analysis 1
- Programming and discrete mathematics
- Algebra 1A
- Probability and statistics 1A
- Methods and applications 1A
- Algebra 1B
- Probability and statistics 1B
- Methods and applications 1B

#### Year 2

- Algebra 2A
- Analysis 2A
- Plus optional units

Placement/study abroad

#### Final year

- Optional units

### Placements

Apply your skills and knowledge to a year working in industry. You'll be employed full-time in a role to match your future career ambitions. It will broaden your experience and transferable skills, giving you a competitive edge when applying for graduate jobs. 100% of mathematical sciences students agreed their placement helped them to develop their general life skills (National Student Survey 2017).

We have links with some of the industry's leading companies. Recent employers include BAE Systems, EY, Office of National Statistics, JP Morgan and Deloitte.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Study abroad

Broaden your horizons with a year studying at a university abroad. You'll experience another culture whilst studying a course that complements your studies at Bath.

We have links with universities in the United States, Canada, Australia, New Zealand, Singapore, South Africa and Europe. This includes Binghamton University, National University Singapore, University of Canterbury, Stellenbosch University and the University of Helsinki.

### Assessment methods

- Coursework
- Dissertation
- Oral assessment
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 37% of your time in a lecture, seminar or practical/lab setting and 63% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: A\*AA

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category C – see page 30).

#### A level

A\*A in Mathematics and Further Mathematics plus either A in a third A level or B in a third A level and grade 2 in any STEP.

We prefer applicants with A level Further Mathematics. Alternative offers are available online if you have not studied Further Mathematics at A level.

#### International Baccalaureate

36 points and 7, 6, 6 in three Higher Level subjects including 6 in Mathematics or 7, 6, 5 in three Higher Level subjects including 7 in Mathematics.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/maths](http://go.bath.ac.uk/maths)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Mathematics

|      |   |
|------|---|
| G100 | BSc (Hons) Three years                              |
| G101 | BSc (Hons) Four years including placement year      |
| G105 | BSc (Hons) Four years including study year abroad   |
| G103 | MMath (Hons) Four years                             |
| 3FG4 | MMath (Hons) Five years including placement year    |
| G104 | MMath (Hons) Four years including study year abroad |

### Gain specialist knowledge in pure and/or applied mathematics. You'll be prepared for a variety of technical and non-specialised careers.

Mathematics underlies all the physical sciences and is increasingly involved in biological sciences, social sciences and management. It is needed to make quantitative predictions from scientific theories.

You'll specialise in pure and/or applied mathematics whilst having the option to study units in statistics, computing, physics, and economics. As with all of our mathematics courses, you will have the option to switch after the first year, so you can keep your options open when you apply.

You'll develop the specialist skills and knowledge for a technical career as well as receiving good training in analytical thinking. This combination of skills and knowledge means you will also be well-suited to non-specialist careers such as computing, financial services and management.

The Master of Mathematics (MMath) course provides you with the same core skills and knowledge of the Bachelor's but with a greater exposure to research. You'll study master's level units and a two-semester research project, preparing you for postgraduate study or a career in academic or industrial research.

#### Units BSc route

##### Year 1

- Analysis 1
- Programming and discrete mathematics
- Algebra 1A
- Probability and statistics 1A
- Methods and applications 1A
- Algebra 1B
- Probability and statistics 1B
- Methods and applications 1B

##### Year 2

- Algebra 2A
- Analysis 2A
- Ordinary differential equations and control
- Numerical analysis
- Algebra 2B
- Analysis 2B
- Modelling and dynamical systems
- Vector calculus and partial differential equations
- Plus optional units

Placement/study abroad

##### Final year

- Optional units

#### Units MMath route

##### Year 1

- Analysis 1
- Programming and discrete mathematics
- Algebra 1A
- Probability and statistics 1A
- Methods and applications 1A
- Algebra 1B
- Probability and statistics 1B
- Methods and applications 1B

##### Year 2

- Algebra 2A
- Analysis 2A
- Algebra 2B
- Analysis 2B
- Plus optional units

Placement/study abroad

##### Penultimate/final year

- Optional units

##### Final year

- Optional units
- Year-long project

#### Placements

Apply your skills and knowledge to a year working in industry. You'll be employed full-time in a role to match your future career ambitions. It will broaden your experience and transferable skills, giving you a competitive edge when applying for graduate jobs. 100% of mathematical sciences students agreed their placement helped them to develop their general life skills (National Student Survey 2017).

We have links with some of the industry's leading companies. Recent employers include Cancer Research UK, Porton Biopharma Limited, GlaxoSmithKline, Oxford Gene Technology, GeneSys and Medical Research Council Technology.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

#### Study abroad

Broaden your horizons with a year studying at a university abroad. You'll experience another culture whilst studying a course that complements your studies at Bath.

We have links with universities in the United States, Canada, Australia, New Zealand, Singapore, South Africa and Europe. This includes Binghamton University, National University Singapore, University of Canterbury, Stellenbosch University and the University of Helsinki.

#### Assessment methods

- Coursework
- Dissertation
- Oral assessment
- Written examination
- Other

#### Delivery methods

- Laboratory sessions
- Lectures
- Tutorials
- Workshops

#### Contact time with staff\*

In your first year, you should expect to spend 37% of your time in a lecture, seminar or practical/lab setting and 63% of the time in independent study. Your unit option choices will determine your future contact hours.

#### Typical offer: A\*AA

#### Entry requirements

##### GCSE

4 or C in English (or equivalent from category C – see page 30).

##### A level

A\*A in Mathematics and Further Mathematics plus either A in a third A level or B in a third A level and grade 2 in any STEP.

We prefer applicants with A level Further Mathematics. Alternative offers are available online if you have not studied Further Mathematics at A level.

##### International Baccalaureate

36 points and 7, 6, 6 in three Higher Level subjects including 6 in Mathematics or 7, 6, 5 in three Higher Level subjects including 7 in Mathematics.

#### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/maths](http://go.bath.ac.uk/maths)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Mathematics and Statistics

- GG13 | BSc (Hons) Three years  
 GG31 | BSc (Hons) Four years including placement year  
 GG32 | BSc (Hons) Four years including study year abroad

### Gain a broad and balanced foundation of theory and practical skills in mathematics with a particular focus on statistics.

This course is for you if you would like to study statistics but have a significant interest in mathematics. You'll be trained how to analyse problems and interpret patterns in data to make careful predictions about the future.

In the first year, you'll gain an introduction to university-level mathematics and statistics before focussing more on statistics in the second year. In the final year, you'll choose from a wide range of optional units to match the areas you'd like to specialise in. These units are available across pure mathematics, applied mathematics and probability and statistics. As with all of our mathematics courses, you will have the option to switch after the first year, so you can keep your options open when you apply.

You'll develop solid logical, analytical and practical problem-solving skills sought by employers. This broad knowledge and set of skills will prepare you not only for technical roles, but non-specialist careers such as computing, financial services and management as well.

### Units

#### Year 1

- Analysis 1
- Programming and discrete mathematics
- Algebra 1A
- Probability and statistics 1A
- Methods and applications 1A
- Algebra 1B
- Probability and statistics 1B
- Methods and applications 1B

#### Year 2

- Algebra 2A
- Analysis 2A
- Ordinary differential equations and control
- Probability 2A
- Statistics 2A
- Analysis 2B
- Probability 2B
- Statistics 2B
- Plus optional units

#### Placement/study abroad

#### Final year

- Introduction to econometrics
- Generalised linear models
- Plus optional units

### Placements

Apply your skills and knowledge to a year working in industry. You'll be employed full-time in a role to match your future career ambitions. It will broaden your experience and transferable skills, giving you a competitive edge when applying for graduate jobs. 100% of mathematical sciences students agreed their placement helped them to develop their general life skills (National Student Survey 2017).

We have links with some of the industry's leading companies. Recent employers include BAE Systems, EY, Office of National Statistics, JP Morgan and Deloitte.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Study abroad

Broaden your horizons with a year studying at a university abroad. You'll experience another culture whilst studying a course that complements your studies at Bath.

We have links with universities in the United States, Canada, Australia, New Zealand, Singapore, South Africa and Europe. This includes Binghamton University, National University Singapore, University of Canterbury, Stellenbosch University and the University of Helsinki.

### Assessment methods

- Coursework
- Dissertation
- Oral assessment
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 37% of your time in a lecture, seminar or practical/lab setting and 63% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: A\*AA

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category C – see page 30).

#### A level

A\*A in Mathematics and Further Mathematics plus either A in a third A level or B in a third A level and grade 2 in any STEP.

We prefer applicants with A level Further Mathematics. Alternative offers are available online if you have not studied Further Mathematics at A level.

#### International Baccalaureate

36 points and 7, 6, 6 in three Higher Level subjects including 6 in Mathematics or 7, 6, 5 in three Higher Level subjects including 7 in Mathematics.

### Further information and contact details

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 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Statistics

- G300 | BSc (Hons) Three years  
 G301 | BSc (Hons) Four years including placement year  
 G302 | BSc (Hons) Four years including study year abroad

### Develop the skills and knowledge needed to become a practising statistician. You'll also gain a sound foundation in mathematics and computing.

Statistics is the collection, analysis and interpretation of data and is central to areas such as scientific progress, government and sound medical research. You'll gain the skills and knowledge needed to work as a statistician.

The first two years will provide an introduction to mathematics at university-level before giving you the option to specialise later in the course. In Year 2, you will also have the option to study computing and economics units run by other departments. Final-year topics include medical statistics, experimental design and multivariate data analysis as well as more theoretical topics such as statistical inference.

As with all of our mathematics courses, you will have the option to switch after the first year, so you can keep your options open when you apply.

### Units

#### Year 1

- Analysis 1
- Programming and discrete mathematics
- Algebra 1A
- Probability and statistics 1A
- Methods and applications 1A
- Algebra 1B
- Probability and statistics 1B
- Methods and applications 1B

#### Year 2

- Algebra 2A
- Analysis 2A
- Probability 2A
- Statistics 2A
- Probability 2B
- Statistics 2B
- Plus optional units

Placement/study abroad

#### Final year

- Generalised linear models
- Applied statistics
- Plus optional units

### Placements

Apply your skills and knowledge to a year working in industry. You'll be employed full-time in a role to match your future career ambitions. It will broaden your experience and transferable skills, giving you a competitive edge when applying for graduate jobs. 100% of mathematical sciences students agreed their placement helped them to develop their general life skills (National Student Survey 2017).

We have links with some of the industry's leading companies. Recent employers include BAE Systems, EY, Office of National Statistics, JP Morgan and Deloitte.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Study abroad

Broaden your horizons with a year studying at a university abroad. You'll experience another culture whilst studying a course that complements your studies at Bath.

We have links with universities in the United States, Canada, Australia, New Zealand, Singapore, South Africa and Europe. This includes Binghamton University, National University Singapore, University of Canterbury, Stellenbosch University and the University of Helsinki.

### Assessment methods

- Coursework
- Dissertation
- Oral assessment
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 37% of your time in a lecture, seminar or practical/lab setting and 63% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: A\*AA

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category C – see page 30).

#### A level

A\*A in Mathematics and Further Mathematics plus either A in a third A level or B in a third A level and grade 2 in any STEP.

We prefer applicants with A level Further Mathematics. Alternative offers are available online if you have not studied Further Mathematics at A level.

#### International Baccalaureate

36 points and 7, 6, 6 in three Higher Level subjects including 6 in Mathematics or 7, 6, 5 in three Higher Level subjects including 7 in Mathematics.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/maths](http://go.bath.ac.uk/maths)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Mechanical engineering

**3rd** for graduate prospects for Mechanical Engineering in *The Times* and *Sunday Times Good University Guide 2018*

**4th** for Mechanical Engineering, and Aeronautical and Manufacturing Engineering in *The Times* and *Sunday Times Good University Guide 2018*

**Top 5** for Mechanical Engineering, and Aeronautical and Manufacturing Engineering in the 2018 Complete University Guide

#### Courses for this subject

- Aerospace Engineering
- Integrated Design Engineering
- Mechanical Engineering
- Mechanical with Automotive Engineering
- Mechanical Engineering with Manufacturing and Management



#### Mechanical engineering combines mathematics and scientific analysis with creative thinking to design and manufacture machines, technologies and systems.

Many of the products, processes and technologies that make our world a better place rely on mechanical engineering. It plays an important role across a range of industries including aerospace, manufacturing, medicine, renewable energy and Formula 1. There is little in our daily lives that isn't touched by innovations in these areas. From the cars we drive, to the mobile phones we use, even to the way our shoes are made.

Mechanical engineers are not afraid to push boundaries. They bring together creativity and design with scientific knowledge to test the limits of what is possible. At Bath, we want to inspire and equip you to take on new challenges and advance mechanical engineering.

We have a solid reputation for research collaboration with industry and this feeds into our teaching. We regularly review our courses with input from industry to make sure that we give you a study experience informed by modern industrial practice. You can transfer to any of our five degrees up until the end of your second year, giving you the flexibility to decide the direction of your degree.

When you graduate, you'll have the technical leadership, initiative and interpersonal skills to pursue a professional career in engineering. You could be making your impact on the world by designing low-carbon vehicles, testing new materials, advancing biomedical science or developing the aircraft of the future.

#### Teaching

You'll learn from academics with expertise in mechanical engineering and established links with industry. They have knowledge in diverse areas including design, manufacture, biomechanics, materials, automotive and aerospace. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

#### Careers

Our graduates have many skills that make them attractive to prospective employers, including teamwork, problem solving, creativity and numeracy. They hold specialist and managerial roles in high technology industries in engineering and manufacturing. Many of our graduates continue their studies with us or at other universities to pursue academic and research careers.

#### Facilities

You'll have access to teaching and research laboratories that support a range of activities. We design our facilities to be like industrial workspaces so that you gain insight into what it is like to work in a professional environment. You'll also have access to our modern research facilities, which are fitted with the latest technology. This is similar to the equipment you could use in industry when you graduate. Our facilities include: a design activity centre, an undergraduate model shop, subsonic wind tunnel, water tunnel, rolling road dynamometer, carbon fibre manufacturing facility, metal 3D printer.

#### Have you thought about...?

- Integrated Mechanical and Electrical Engineering - see page 76
- Electrical and Electronic Engineering - see page 70
- Civil Engineering - see page 55



"Definitely go on a placement. It's a great experience and very enjoyable."

Muhammad Saalim Tungekar,  
MEng Mechanical Engineering with  
placement year



## Aerospace engineering

H400 | MEng (Hons) Four years  
H423 | MEng (Hons) Five years including  
a placement year

### Understand the principles of aerospace engineering science and explore the latest thinking in aircraft design and manufacture.

The first two years of this course give you a detailed understanding of core mechanical engineering principles. You'll learn how to use mathematics and computing to analyse engineering systems, and develop knowledge in design and manufacturing processes.

You'll study aircraft performance, control and structures, composites, aerodynamics, propulsion and spaceflight. Lectures are balanced with laboratory work to give you the skills you need to build, analyse and test a product. So that you can develop a full understanding of aircraft from design to manufacture, you'll visit an aerospace manufacturing company and take a flight test course at a local airfield.

We focus on giving you opportunities to apply what you've learnt through practical project work. This helps you develop a set of skills needed by professional engineers. You'll work on a group project to design a new aircraft to a specification given by industry or for entry into a competition such as the annual Unmanned Aircraft Systems Challenge. In your final year, you'll choose from a range of specialist units and complete an individual research project that could be based on simulation, experimentation or design.

Our MEng degrees give you an in-depth study experience through advanced taught units and project work and fulfil the educational requirements you need to become a Chartered Engineer.

### Units

#### Year 1

Experimentation, engineering skills and applied engineering; Thermodynamics; Solid mechanics 1; Design materials and manufacturing 1; Mathematics 1; Fluid mechanics; Solid mechanics 2; Design materials and manufacturing 2; Instrumentation, electronics and electrical drives; Mathematics 2

#### Year 2

Systems and control, Modelling techniques 1; Solid mechanics 3; Design 3; Fluid dynamics with historical perspective; Thermal power and heat transfer; Modelling techniques 2; Solid mechanics 4; Design 4; Manufacturing operations and technology

#### Placement

#### Penultimate year

Aerodynamics; Aircraft stability & control; Aerospace structures 1; Aircraft propulsion; Aircraft performance; Aerospace group business and design project 1; Aerospace group business and design project 2

#### Final year

Engineering project; Advanced helicopter dynamics; Plus optional units

### Professional accreditations

- Accredited by the Royal Aeronautical Society (RAeS), licensed by the Engineering Council, to fully meet the academic requirements for a Chartered Engineer.
- Accredited by the Institution of Mechanical Engineers (IMechE), licensed by the Engineering Council, to fully meet the academic requirements for a Chartered Engineer.

### Placements

A placement year gives you professional experience in a commercial or industrial environment during your degree. You'll develop practical skills that will benefit the rest of your degree and improve your career prospects. A placement also counts towards becoming a Chartered Engineer, giving you an advantage that not all graduates will have.

Our students have worked at companies such as Airbus, Rolls Royce and Red Bull Technology.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Seminar
- Written examination

### Delivery methods

- e-learning
- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 28% of your time in a lecture, seminar or practical/lab setting and 72% of the time in independent study. Your unit option choices will determine your future contact hours.

### Extra costs:

The following course-related costs are not included in your fees: Drawing instruments, £45 payable at the start of your course.

### Typical offer: A\*AA

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category C – see page 30).

#### A level

A\*AA including Mathematics and Physics with A\* in Mathematics or Physics (or Further Mathematics if applicable).

#### International Baccalaureate Diploma

36 points and 7, 6, 6 in three Higher Level subjects including Mathematics and Physics.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/mech-eng](http://go.bath.ac.uk/mech-eng)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Integrated design engineering

H761 | MEng (Hons) Four years  
 H762 | MEng (Hons) Five years including  
 a placement year

### Integrate mechanical, electrical and software skills to develop innovative products. You'll be equipped for a career as a multidisciplinary design engineer.

Our course is for creative engineers who want to explore product development, machines and systems. You'll investigate the relationship between engineering and design to produce new products that are both marketable and functional. We want to inspire you to make the world better by designing and building the products of the future.

In your first two years, you'll develop a detailed understanding of core mechanical engineering principles. You'll use mathematics and computing to analyse engineering systems and study design and manufacturing processes.

Specialist units encourage you to take a hands-on approach to engineering design. You'll work with other students in studios, labs and workshops to experiment with design and production. 'Design-make-test' activities give you practical experience of designing, building and testing prototypes.

At Bath, practical project work is central to your study experience. Group and individual projects give you the chance to put theory into practice and use initiative to solve complex engineering problems. The high level technical, management, communication and design skills you'll develop will prepare you for the workplace.

Our MEng degrees give you an in-depth study experience through advanced taught units and project work and fulfil the educational requirements you need to become a Chartered Engineer.

### Units

#### Year 1

Experimentation, engineering skills and applied engineering; Thermodynamics; Solid mechanics 1; Design materials and manufacturing 1; Mathematics 1; Fluid mechanics; Solid mechanics 2; Design materials and manufacturing 2; Instrumentation, electronics and electrical drives; Mathematics 2

#### Year 2

Systems and control, Modelling techniques 1; Solid mechanics 3; Design 3; Fluid dynamics with historical perspective; Thermal power and heat transfer; Modelling techniques 2; Solid mechanics 4; Design 4; Manufacturing operations and technology

#### Placement

#### Penultimate year

Mechatronic design project 1, User-centred design project; Business processes; Product design and development; Reverse engineering for disruptive innovation; Group business and design project 1; Group business and design project 2; Plus one optional unit

#### Final year

Design optimisation project; Mechatronic design project 2; Major individual design project 1; Major individual design project 2; Plus optional units

### Professional accreditations

- Accredited by the Institution of Engineering and Technology (IET) under licence from the UK regulator, the Engineering Council, to fulfil the educational requirements for a Chartered Engineer (CEng).

### Placements

A placement gives you first-hand knowledge of the workplace and counts towards becoming a Chartered Engineer. The professional skills you learn can benefit the rest of your degree and improve your career prospects. It's also an opportunity to earn a salary during your degree and make industry contacts.

You can decide on whether going on placement is right for you up until the end of your second year.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Seminar
- Written examination

### Delivery methods

- e-learning
- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 28% of your time in a lecture, seminar or practical/lab setting and 72% of the time in independent study. Your unit option choices will determine your future contact hours.

### Extra costs:

The following course-related costs are not included in your fees: Drawing instruments, £45 payable at the start of your course.

### Typical offer: A\*AA

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category C – see page 30).

#### A level

A\*AA including Mathematics and Physics with A\* in Mathematics or Physics (or Further Mathematics if applicable).

#### International Baccalaureate Diploma

36 points and 7, 6, 6 in three Higher Level subjects including Mathematics and Physics.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/mech-eng](http://go.bath.ac.uk/mech-eng)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Mechanical Engineering

H306 | MEng (Hons) Four years  
 H309 | MEng (Hons) Five years including  
 a placement year

## Combine numeracy with detailed subject knowledge and initiative to solve complex engineering problems that improve the world we live in.

Our course teaches you how to use physical science, mathematics and computing to analyse engineering systems. You'll combine this with study in design and manufacturing processes to understand how modern industry works.

Your first two years give you a detailed understanding of the core mechanical engineering principles. You'll learn how to incorporate design into the science, manufacturing and management elements of engineering. You can apply this knowledge to analyse, build and test a product from scratch.

At Bath, practical project work is central to your study experience. Group and individual projects are a chance for you to put theory into practice and gain experience in engineering enterprise management. You can join one of our teams to compete in international competitions such as Formula Student or the Isle of Man TT Zero.

A wide selection of optional units lets you choose where you want to specialise in your final year. These include aerospace, automotive, design, manufacturing, environmental or medical engineering. The wide-ranging engineering curriculum develops your professional skills to pursue a career in a host of industries.

Studying an MEng gives you an in-depth study experience through advanced taught units and project work. It also fulfils the educational requirements you need to become a Chartered Engineer.

## Units

### Year 1

Experimentation, engineering skills and applied engineering; Thermodynamics; Solid mechanics 1; Design materials and manufacturing 1; Mathematics 1; Fluid mechanics; Solid mechanics 2; Design materials and manufacturing 2; Instrumentation, electronics and electrical drives; Mathematics 2

### Year 2

Systems and control; Modelling techniques 1; Fluid dynamics with historical perspective; Modelling techniques 2; Solid mechanics 3; Design 3; Thermal power and heat transfer; Solid mechanics 4; Design 4; Manufacturing operations and technology

### Placement

### Penultimate year

Control systems; Structural mechanics; Mechanical vibrations and noise; Heat transfer; Materials selection in engineering design; Group business and design project 1; Group business and design project 2

### Final year

Engineering project; Plus optional units

## Professional accreditations

- Accredited by the Institution of Mechanical Engineers (IMechE) under licence from the UK regulator, the Engineering Council, to fully meet the academic requirements for registration as a Chartered Engineer (CEng).

## Placements

Going on placement gives you the chance to gain practical experience in an industrial or commercial work environment. It also counts towards becoming a Chartered Engineer. The professional skills you learn can benefit the rest of your degree and improve your career prospects. It's also an opportunity to earn a salary during your degree and make industry contacts.

Our students have worked at companies such as Atkins Global, Dyson and Rolls-Royce. You can decide on whether going on placement is right for you up until the end of your second year.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

## Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Seminar
- Written examination

## Delivery methods

- e-learning
- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

## Contact time with staff\*

In your first year, you should expect to spend 28% of your time in a lecture, seminar or practical/lab setting and 72% of the time in independent study. Your unit option choices will determine your future contact hours.

## Extra costs:

The following course-related costs are not included in your fees: Drawing instruments, £45 payable at the start of your course.

## Typical offer: A\*AA

## Entry requirements

### GCSE

4 or C in English (or equivalent from category C – see page 30).

### A level

A\*AA including Mathematics and Physics with A\* in Mathematics or Physics (or Further Mathematics if applicable).

### International Baccalaureate Diploma

36 points and 7, 6, 6 in three Higher Level subjects including Mathematics and Physics.

## Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/mech-eng](http://go.bath.ac.uk/mech-eng)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Mechanical Engineering with Manufacturing and Management

H716 | MEng (Hons) Four years

H713 | MEng (Hons) Five years including a placement year

## Learn how engineering, manufacturing and management work together in industry. Gain expertise in product creation processes from design to end manufacture.

Our course develops your understanding of the sciences and disciplines relating to manufacturing. You'll study engineering, manufacturing and management to understand their role in production processes.

We draw on industrial links to build your knowledge of the integrated systems, processes and technologies used in advanced manufacturing. Learning about the latest engineering developments will inspire you to explore ways to produce high quality products at a low cost.

Your first two years give you a grounding in core mechanical engineering principles. You'll combine this with physical science, mathematics and computing to analyse engineering systems.

Translating ideas into practice is an important skill for an engineer. You'll work on projects and use imaginative approaches to solve complex engineering problems. You could explore new business or engineering technologies in areas such as sports and leisure equipment, medical devices, or data management.

In your latter two years, you'll study specialist units including project management, business processes, costing, and managing human resources. When you graduate, you'll understand how to design, operate and control manufacturing systems.

Our MEng degrees give you an in-depth study experience through advanced taught units and project work and fulfil the educational requirements you need to become a Chartered Engineer.

## Units

### Year 1

Experimentation, engineering skills and applied engineering; Thermodynamics; Solid mechanics 1; Design materials and manufacturing 1; Mathematics 1; Fluid mechanics; Solid mechanics 2; Design materials and manufacturing 2; Instrumentation, electronics and electrical drives; Mathematics 2

### Year 2

Systems and control; Modelling techniques 1; Solid mechanics 3; Design 3; Fluid dynamics with historical perspective; Thermal power and heat transfer; Modelling techniques 2; Solid mechanics 4; Design 4; Manufacturing operations and technology

## Placement

### Penultimate year

Computer integrated manufacturing; Business processes; Costing for engineering design and manufacture; Advanced manufacturing and assembly; Project management; Group business and design project 1; Group business and design project 2

### Final year

Engineering project; Modelling and analysis of manufacturing systems; Plus optional units

## Professional accreditations

- Accredited by the Institution of Mechanical Engineers (IMechE), licensed by the Engineering Council, to fully meet the academic requirements for a Chartered Engineer (CEng).
- Accredited by the Institute of Engineering and Technology, licensed by the Engineering Council, to fulfil the educational requirements for a Chartered Engineer.

## Placements

A placement gives you experience of the workplace and technologies and processes that companies use. It's also an opportunity to make industry contacts and earn a salary during your degree. Gaining professional experience can improve your career prospects and counts towards becoming a Chartered Engineer.

Our students have worked at companies such as Unilever, Rolls Royce Cars and Airbus UK.

You can decide on whether going on placement is right for you up until the end of your second year.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

## Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Seminar
- Written examination

## Delivery methods

- e-learning
- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

## Contact time with staff\*

In your first year, you should expect to spend 28% of your time in a lecture, seminar or practical/lab setting and 72% of the time in independent study. Your unit option choices will determine your future contact hours.

## Extra costs:

The following course-related costs are not included in your fees: Drawing instruments, £45 payable at the start of your course.

## Typical offer: A\*AA

## Entry requirements

### GCSE

4 or C in English (or equivalent from category C – see page 30).

### A level

A\*AA including Mathematics and Physics with A\* in Mathematics or Physics (or Further Mathematics if applicable).

### International Baccalaureate Diploma

36 points and 7, 6, 6 in three Higher Level subjects including Mathematics and Physics.

## Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/mech-eng](http://go.bath.ac.uk/mech-eng)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Mechanical with Automotive Engineering

- H330 | MEng (Hons) Mechanical with Automotive Engineering Four years  
 H343 | MEng (Hons) Mechanical with Automotive Engineering Five years including a placement year

## Specialise in vehicle design, performance, analysis and systems. Develop the engineering skills for a career in automotive and motorsport industries.

Our course is for engineers who want to apply fundamental mechanical engineering knowledge to the challenges of the automotive industry including areas such as cost, emissions, performance and materials.

The first two years of study introduce you to core mechanical engineering principles to give you a strong foundation in the subject. Using physical science, mathematics and computing, you'll learn how to analyse engineering systems. You'll study vehicle design, manufacturing processes and component analysis in the context of the automotive market. A range of specialist units in your final year allow you to choose where you want to advance your knowledge.

At Bath, project work is central to your study experience. Group and individual projects are a chance for you to use your knowledge, initiative and creativity to solve complex engineering problems. You could join our award-winning Formula student team, Team Bath Racing. As part of the team, you'll contribute to the design and build of a single-seat racing car and enter in the annual International Formula Student competition. The balance of technical, teamwork and enterprise management skills you develop will prepare you for the workplace.

Studying an MEng degree gives you an in-depth study experience through advanced taught units and project work and fulfil the educational requirements you need to become a Chartered Engineer.

## Units

### Year 1

Experimentation, engineering skills and applied engineering; Thermodynamics; Solid mechanics 1; Design materials and manufacturing 1; Mathematics 1; Fluid mechanics; Solid mechanics 2; Design materials and manufacturing 2; Instrumentation, electronics and electrical drives; Mathematics 2

### Year 2

Systems and control; Modelling techniques 1; Solid mechanics 3; Design 3; Fluid dynamics with historical perspective; Thermal power and heat transfer; Modelling techniques 2; Solid mechanics 4; Design 4; Manufacturing operations and technology

### Placement

### Penultimate year

Control systems; Structural mechanics; Internal combustion engine technology; Vehicle dynamics; Vehicle engineering; Group business and design project 1; Group business and design project 2

### Final year

Engineering project; Powertrain and transportation systems; Turbocharging and engine boosting; Plus optional units

## Professional accreditations

- Accredited by the Institution of Mechanical Engineers (IMechE) under licence from the UK regulator, the Engineering Council, to fully meet the academic requirements for registration as a Chartered Engineer (CEng).

## Placements

A placement gives you first-hand knowledge of the workplace and counts towards becoming a Chartered Engineer. The professional skills you learn can benefit the rest of your degree and improve your career prospects. It's also an opportunity to earn a salary during your degree and make industry contacts.

Our students have worked at companies such as McLaren Automotive, Williams F1, Red Bull Racing and Jaguar Land Rover

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

## Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Seminar
- Written examination

## Delivery methods

- e-learning
- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

## Contact time with staff\*

In your first year, you should expect to spend 28% of your time in a lecture, seminar or practical/lab setting and 72% of the time in independent study. Your unit option choices will determine your future contact hours.

## Extra costs:

The following course-related costs are not included in your fees: Drawing instruments, £45 payable at the start of your course.

## Typical offer: A\*AA

## Entry requirements

### GCSE

4 or C in English (or equivalent from category C – see page 30).

### A level

A\*AA including Mathematics and Physics with A\* in Mathematics or Physics (or Further Mathematics if applicable).

### International Baccalaureate Diploma

36 points and 7, 6, 6 in three Higher Level subjects including Mathematics and Physics.

## Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/mech-eng](http://go.bath.ac.uk/mech-eng)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Natural Sciences



**Top ten** for course satisfaction for chemistry in the *Guardian University Guide 2018*

**Top ten** for pharmacy and pharmacology in the *Complete University Guide 2018*

**Top ten** for physics and astronomy in the *Complete University Guide 2018*

These rankings are for subjects that contribute to the Natural Sciences degree.

**Course for this subject**

- Natural Sciences

**Natural sciences is multidisciplinary. You'll be able to study across the subjects of biology, biochemistry, chemistry, pharmacology and physics.**

Play to your strengths by building your own portfolio of units. You'll be able to shape your own degree and level of specialisation to suit your career plans. You can even broaden your course further by taking non-science subjects such as management or education.

**Teaching**

You'll learn from academics with expertise in biology, biochemistry, chemistry, environmental science, pharmacology and physics. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

**Careers**

A wide range of career opportunities are open to you as a Natural Sciences graduate including in scientific and manufacturing industries, research and development. You'll also be well suited to roles in management, marketing, sales, purchasing, patenting and environmental management.

Recent employers include Deloitte, BP and the World Health Organisation. Many of our graduates also choose to go on to postgraduate study in preparation for academic or industry-based research careers.

**Facilities**

You'll learn alongside single-honours students in the subjects you choose, with access to the wide range of laboratories and specialised facilities provided by the individual departments. You'll also be supported during your studies by regular small group tutorials and one-to-one meetings with a Personal Tutor.

**Have you thought about...?**

- Biochemistry - see page 38
- Mathematics and Physics - see page 101
- Pharmacology - see page 96



"Natural Sciences is a really good choice if, like me, you can't decide which of your science A levels you like best, or you just don't want to focus on one alone."

Isabelle Sumner, BSc Natural Sciences including placement year

## Natural Sciences

|      |  |  |
|------|--|--|
| CFG0 |  | BSc (Hons) Three years                             |
| FCG0 |  | BSc (Hons) Four years including placement year     |
| GCF0 |  | BSc (Hons) Four years including study year abroad  |
| GFC0 |  | MSci (Hons) Four years                             |
| GFCA |  | MSci (Hons) Five years including placement year    |
| GFCB |  | MSci (Hons) Five years including study year abroad |

### Gain a wide range of skills and intellectual experience in core science subjects, giving you the flexibility to shape your degree to your career aspirations.

This is the course for you if you love studying natural sciences (chemistry, biology, physics) at school or college and want to maintain your breadth of study. Design your own degree to suit your interests and strengths. You'll be able to take your existing scientific skills further, explore new areas and apply what you've learnt in practical and relevant ways.

Employers will value your ability to bring problem-solving skills from a variety of different angles. You'll graduate with the breadth of knowledge and practical skills to prepare you for a career in industry or for postgraduate research. If you decide during the first year your interests fit better within a single science, you may transfer to year two of Biology, Biochemistry, Chemistry, Pharmacology or Physics following successful completion of a year one double stream in that subject.

The Master of Science (MSci) course provides you with the same core sciences but in more depth than the BSc. It also gives you greater exposure to current research.

### Degree structure

| Year 1  |                                |                           |
|---|--------------------------------|---------------------------|
| Science Major<br>(2 blocks)                                 | Science Minor(s)<br>(2 blocks) | Option or<br>more science |
| Optional transfer to single honours or between BSc and MSci |                                |                           |
| Year 2  |                                |                           |
| Science Major<br>(2 blocks)                                 | Science Minor(s)<br>(2 blocks) | Option or<br>more science |
| Optional placement or study year abroad                     |                                |                           |
| Year 3*   |                                |                           |
| Science Major<br>(2 blocks)                                 | Science Minor(s)<br>(2 blocks) | Option or<br>more science |
| Year 4 (MSci only)  |                                |                           |
| Science Major<br>(2 blocks)                                 | Science Minor(s)<br>(2 blocks) | Project in Major          |

\*In the BSc Year 3 (final year) you will carry out a project or dissertation in your Major subject in place of one of the three Science Minor/Option blocks.

Major subjects are chosen from Biology, Biochemistry, Chemistry, Environmental Science, Pharmacology and Physics. Environmental Science and Pharmacology can only be Major subjects on the BSc course. Minor subjects are chosen from the same list. Options are more science, Mathematics, Psychology, Management or Education units.

Regardless of the major or minor you choose, you will take a final year project as the compulsory unit in your final year.

Studying a Mathematics stream is required to support the study of Physics, but optional if you would like to use your maths to support the study of the life sciences.

### Placements

Apply your skills and knowledge to a year working professionally. You'll be employed full-time in a role to match your future career ambitions. It will broaden your experience and transferable skills, giving you a competitive edge when applying for graduate jobs. We have links with some of the industry's leading companies. Recent employers include Intrinsic, CERN, EY, Wessex Water, GlaxoSmithKline and European Synchrotron Radiation Facility (ESRF).

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Study abroad

Broaden your horizons with a year studying at a university abroad. You'll experience another culture whilst studying a course that complements your studies at Bath. We have links with universities in the United States, Canada, Australia, New Zealand, Singapore, Hong Kong and Europe, including the University of Nebraska, National University of Singapore, University of Canterbury and the University of Helsinki.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Practical work
- Seminar
- Written examination

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*\*

In your first year, you should expect to spend 31% of your time in a lecture or seminar setting and 69% of the time in independent study. Your unit option choices will determine your future contact hours.

### Extra costs:

For one of the units in Biology there is an optional field course to Gower, South Wales: £300, payable during the first semester of the second year.

### Typical offer: A\*AA

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category C – see page 30).

#### A level

A\*AA in three A levels including Mathematics and two subjects from Biology, Chemistry and Physics.

#### International Baccalaureate Diploma

36 points and 7, 6, 6 in three Higher Level subjects including Mathematics and two subjects from Biology, Chemistry and Physics.

You may be considered if you are studying Mathematics or one of these science subjects at Standard Level.

### Further information and contact details

\*\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/nat-sci](http://go.bath.ac.uk/nat-sci)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Pharmacology



**Top ten** for pharmacy and pharmacology in the Complete University Guide 2018

**97%** of employed UK first degree pharmacy and pharmacology graduates move into managerial, professional or technical jobs within six months of graduation.

(Source: Destinations of Leavers from Higher Education survey (2015/16))

**100%** student satisfaction rate for MPharmacol Pharmacology including placement year in the National Student Survey 2017

**Course for this subject**

- Pharmacology

**Pharmacology is the study of the effects of drugs on the body. Learn how to develop effective treatments for both human and animal diseases.**

Pharmacologists play a vital role in increasing our understanding and development of treatments for a wide range of diseases, from headaches or allergies to global issues such as cancer, arthritis and dementia. As a Pharmacology student, you'll develop a broad knowledge and skills base by exploring how chemicals can impact the function of living systems at the molecular, cellular, tissue or whole body level.

**Teaching**

You'll learn from active researchers who specialise in different areas of pharmacological sciences, including drug and target discovery, pharmacological evaluation and medicines design. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience. 94% of pharmacy and pharmacology students agreed their learning benefited from modules informed by current research (National Student Survey 2017).

**Careers**

Graduates are well suited to research careers within the pharmaceutical industry and many also choose to go on to postgraduate study. You'll benefit from our strong links with the pharmaceutical industry, with recent placement employers including GlaxoSmithKline, AstraZeneca, and UCB.

**Facilities**

You'll develop key practical skills in our dedicated pharmacology laboratory, where you will gain experience in a wide range of traditional and molecular laboratory techniques. You'll also have the opportunity to complete the Home Office Licence Module Training Course during your degree.

You'll be supported throughout your studies with small group tutorials, interactive workshops and one-to-one meetings with a Personal Tutor.

**Have you thought about...?**

- Biomedical Sciences - see page 40
- Chemistry - see page 50
- Natural Sciences - see page 94



"I like the course because there is a focus on lab work and I get placement opportunities at top companies. I've gained a deeper understanding of the drug discovery pipeline and how medicines work."

Jasmine Sim, MPharmacol Pharmacology



# Pharmacology

B210 | BSc (Hons) Three years  
 B213 | MPharmacol (Hons) Four years including  
 integrated placement year

## Learn to develop more effective treatments for diseases and discover how chemicals may modify living systems. You'll be trained to become a research scientist.

If you love lab work and the idea of discovering how chemicals may modify living systems, this is the degree for you.

You'll gain knowledge of the fundamental principles of chemistry, biology and the physical sciences and will be able to apply these principles to specific problems in pharmacology. This course will provide you with an integrated view of drug action linked to normal and disease-related functions of the major organ systems.

You'll be trained to be a high quality, innovative and independent research scientist. Through our hands-on classes, you'll develop competency in a range of laboratory skills. As a pharmacologist, you can go on to work on the development of new treatments for both human and animal diseases.

The Master of Pharmacology (MPharmacol) course provides you with a greater exposure to research and practical techniques. As part of the MPharmacol you'll undertake a placement year in a pharmaceutical company, research institute or university. You will also complete an extensive research project, giving you invaluable experience of working in the field.

## Units

### Year 1

- Research and scientific communication for pharmacologists
- Fundamentals of pharmacology: from molecules to medicines 1
- Fundamentals of pharmacology: the healthy body 1
- Introduction to experimental pharmacology
- Fundamentals of pharmacology: from molecules to medicines 2
- Fundamentals of pharmacology: the healthy body 2

### Year 2

- Pharmacology of the central nervous system
- Drug discovery and pharmacokinetics
- Cell regulation and function: receptors to genes
- Experimental pharmacology 1
- Cardiovascular, renal and peripheral nervous system pharmacology
- Infection and immunity
- Experimental pharmacology 2

### MPharmacol integrated placement year

- Pharmacology placement
- Dissertation in Pharmacology
- Landmarks in Pharmacology

### Final year

Research project in pharmacology

- Molecular applications in pharmacology
- Recent advances in drug discovery
- Advanced topics, trends and technologies in pharmacology
- Plus optional units

Here are some examples of the units currently being studied by our students:

- Central nervous system pharmacology
- Cardiovascular pharmacology
- The molecular biology and treatment of cancer
- Pharmacology of regenerative medicine
- Engaging the public with drug discovery research

## Placements

We're the only UK university to offer an integrated year-long placement as part of a Master of Pharmacology degree.

A placement is an opportunity for you to apply your skills and knowledge to a year working in industry. You'll be employed full-time in a role to match your future career ambitions. It will broaden your experience and transferable skills, giving you a competitive edge when applying for graduate jobs.

We have strong links with some of the industry's leading companies. Recent employers include GlaxoSmithKline, AstraZeneca and UCB.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

## Assessment methods

- Coursework
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Seminar
- Written examination

## Delivery methods

- Laboratory sessions
- Lectures
- Seminars
- Tutorials
- Workshops

## Contact time with staff\*

In your first year, you should expect to spend 30% of your time in a lecture, seminar or practical/lab setting and 70% of the time in independent study. Your unit option choices will determine your future contact hours.

## Typical offer: AAB

### Entry requirements

#### GCSE

4 or C in Mathematics and 4 or C in English (or equivalent from category B – see page 30).

#### A level

AAB including Chemistry and one other science or mathematics subject.

#### International Baccalaureate Diploma

36 points and 6, 6, 5 in three Higher Level subjects including Chemistry and one other science or mathematics subject.

## Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/pharmacol](http://go.bath.ac.uk/pharmacol)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Pharmacy



**Top ten** for pharmacy and pharmacology in the Complete University Guide 2018

**97%** of employed UK first degree pharmacy and pharmacology graduates move into managerial, professional or technical jobs within six months of graduation

(Source: Destinations of Leavers from Higher Education survey (2015/16))

**Top 5** for research quality for pharmacy and pharmacology in the Complete University Guide 2018

**Course for this subject**

- Pharmacy

**Train as a healthcare professional in all aspects of medicines use and design. Pharmacists have a valued role as a member of a multidisciplinary healthcare team.**

Medicines play a vital role in optimising patient health. As a pharmacy student, you will gain a unique knowledge of both the scientific and clinical aspects of medicines. You'll develop consultation and decision making skills, allowing you to support patients and prescribers in the best choice and use of medicines.

**Teaching**

You will be taught by active researchers who specialise in different areas of pharmaceutical science, including drug and target discovery, medicines design and health and clinical research. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience. Clinical teaching is also delivered by a team of experienced teacher practitioners.

**Careers**

We are the only School of Pharmacy within the South West and our graduates are in high demand within the region.

Career opportunities range from research and drug development roles within industry and academia, to patient-facing clinical roles within community, hospitals or primary care. You'll benefit from our strong and established links with the pharmaceutical industry, NHS providers and leading community pharmacy employers such as Boots, Lloyds and Day Lewis. Many graduates also return to the University to complete our postgraduate diplomas or prescribing qualifications.

We are recognised as one of the top schools of pharmacy in the UK and our graduates consistently achieve high pass rates in the registration assessment set by the General Pharmaceutical Council.

**Facilities**

You'll develop professional skills in the safe and supportive environment of our specially designed Pharmacy Practice Suite and newly developed Pharmacy Practice Simulation Suite. These include consultation rooms where you can take part in role-playing exercises with patients played by staff or professional actors, and robotic patients.

You'll also have inter-professional learning sessions with medical, nursing, psychology and social work students. These will help to build your confidence and improve your understanding of your professional practice role.

**Have you thought about...?**

- Biosciences - see pages 37
- Natural Sciences - see page 94
- Pharmacology - see page 96



"After graduating I hope to complete my pre-registration year in a hospital and eventually be able to get involved in more research."

Yasmin Kafei Shirmanesh,  
MPharm Pharmacy

## Pharmacy

B230 | MPharm (Hons) Four years  
 B236 | MPharm (Hons) Five years including  
 integrated pre-registration year

### Learn about every aspect of the preparation and use of medicine and become an expert in the field. Train to become a pharmacist in healthcare or industry.

You'll gain a solid grounding in human biology and origins of disease, pharmaceutical chemistry and physical sciences. You'll also be introduced to professional practice and undertake clinical placements in patient-facing environments. In year four, you'll undertake an extensive research project, studying alongside clinical pharmacy professionals and researchers in the Department and in a bespoke pharmacy management simulation.

As a graduate, you'll understand the causes and progression of medical conditions, the mechanism and underlying principles of drug action. You will also learn about the appropriate supply and administration of medications and the principles of monitoring treatment and disease progression. You can go on to become a pharmacist working in primary or secondary healthcare, as well as in an education or research setting.

To become a pharmacist you will need to undertake a pre-registration year in primary or secondary care. Many graduates choose to return to university to study to become independent prescribers.

The five-year course is designed for international students wishing to undertake their pre-registration training in the UK, whilst retaining their student status. It incorporates the pre-registration element of pharmacy training which will enable you to graduate ready to apply for registration as a UK pharmacist.

### Units

#### Year 1

- Fundamentals of pharmacy: from molecules to medicines 1
- Fundamentals of pharmacy: the healthy body 1
- Fundamentals of pharmacy: from molecules to medicines 2
- Fundamentals of pharmacy: the healthy body 2
- Preparing for professional practice 1

#### Year 2

- Specialised integrated unit 1: management of gastrointestinal and liver disease
- Specialised integrated unit 2: immunity, inflammation and infection
- Specialised integrated unit 3: management of respiratory diseases and dermatology
- Specialised integrated unit 4: management of cardiovascular disease and endocrine disorders
- Preparing for professional practice 2

#### Year 3

- Specialised integrated unit 5: neurology and mental health
- Specialised integrated unit 6: special patient groups
- Specialised integrated unit 7: oncology and palliative care
- Medicines optimisation in complex patients 1
- Preparing for professional practice 3

#### Year 4

- Research project or **international placement**
- Pharmacy management simulation (international)
- Medicines optimisation in complex patients 2
- Global health and management

#### Integrated pre-registration year (five year course only)

- 6 months community pharmacy
- 6 months hospital pharmacy
- Bath-based study course

### Professional accreditations

- The four-year MPharm course is accredited by the General Pharmaceutical Council (GPhC). Accreditation is currently being applied for the five-year MPharm course. For detailed GPhC standards, please visit [go.bath.ac.uk/pharma](http://go.bath.ac.uk/pharma)

### Placements

In year four, you'll undertake an extensive research project, studying alongside researchers in the Department or on a 12-week placement with an international partner organisation. There are placement opportunities available in Europe, Australia, New Zealand, the United States, Brazil and China.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Essay
- Multiple choice examination
- Oral assessment
- Portfolio
- Practical work
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 33% of your time in a lecture, seminar or practical/lab setting and 67% of the time in independent study.

### Extra costs:

The following course-related costs are not included in your fees:

- Disclosure and Barring Service (DBS) check, £50 payable at the start of your course
- Accommodation: The two six-month placements on the five-year MPharm course may not be located near Bath and you are responsible for arranging your own accommodation.

### Typical offer: AAB

#### Entry requirements

##### GCSE

4 or C in Mathematics and 4 or C in English (or equivalent from category B – see page 30).

##### A level

AAB including Chemistry and one other science or mathematics subject.

##### International Baccalaureate Diploma

36 points and 6, 6, 5 in three Higher Level subjects including Chemistry and one other science or mathematics subject.

You will need to obtain an Enhanced Disclosure and Barring Service (DBS) check during this course.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/pharma](http://go.bath.ac.uk/pharma)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Physics

**Top ten** for physics & astronomy in the Complete University Guide 2018

**Top ten** for course satisfaction for physics in the Guardian University Guide 2018

#### Courses for this subject

- Mathematics and Physics
- Physics
- Physics with Astrophysics

#### Physicists search for the universal principles underlying natural phenomena.

Explore the Universe from the nanoscale to cosmological ranges. Learn about nano-engines and organic electronics, investigate graphene properties, study planets and galaxies and understand the structure and evolution of the Universe. You'll gain analytical and critical thinking skills to prepare yourself for a wide range of careers, in science and connected fields.

#### Teaching

You'll learn from academics with expertise across different research areas, from fundamental physics to technological applications. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience. 97% of physics students find their course intellectually stimulating (National Student Survey 2017).

#### Careers

We are one of the ten universities most often targeted by Britain's top graduate employers in 2016 to 2017 (highfliers.co.uk). Our graduates go on to a diverse and interesting range of careers, such as scientific research and development, engineering, telecommunications, banking, finance, meteorology, oil, gas and space exploration. Many of our graduates also choose to go on to postgraduate study in preparation for academic or industry-based research careers.

#### Facilities

You'll learn in well-equipped undergraduate teaching laboratories as well as our specialist research laboratories, depending on the specialisation you choose, to carry out projects with research equipment and high-performance computers. Some projects also involve links with research facilities and observatories in the UK and around the world.

Staff in the Department are really approachable and you'll have regular contact with an Academic and Personal Tutor on a one-to-one basis, as well as through small group tutorials.

#### Have you thought about...?

- Mathematical Sciences - see page 84
- Natural Sciences - see page 94
- Electronic Engineering with Space Science and Technology - see page 72



"The course provides fantastic opportunities to explore new and exciting developments in physics and has given me a range of excellent placement opportunities."

Beth Probert, BSc Physics with Astrophysics including placement year

## Mathematics and Physics

|      |  |
|------|--|
| GF13 | BSc (Hons) Three years                             |
| FG31 | BSc (Hons) Four years including placement year     |
| FG32 | BSc (Hons) Four years including study year abroad  |
| FG3C | MSci (Hons) Four years                             |
| 39B2 | MSci (Hons) Five years including placement year    |
| 385C | MSci (Hons) Five years including study year abroad |

### Master the logic, rigour and proof of mathematics alongside the universal principles of physics to prepare you for a wide range of careers.

This course is for you if you enjoy and excel at pure mathematics and want to combine that knowledge with insights into the physical world. You'll get to understand the rigour and generality of mathematics and its particular role in formalising empirical physical laws.

In the first two years, you will study core topics in mathematics and physics. You can change the balance of the subjects through your choice of optional units in the following years. You'll benefit from studying in two departments and you may be able to transfer into either physics or mathematics if you decide to specialise. You'll graduate with the knowledge and skills of an independent scientist, with sound mathematical and experimental expertise, and the ability to solve complex problems on your own.

The MSci degree gives you the opportunity to enhance and deepen your knowledge compared to BSc courses, particularly in topics at the forefront of research. You'll study master's-level units and carry out a research project, giving you ideal preparation for postgraduate study or a career in research.

#### Units BSc route

##### Year 1

Analysis 1; Algebra 1A; Methods and applications 1A; Properties of matter; Vibrations, waves and optics; Algebra 1B; Methods and applications 1B; Introduction to quantum physics; Electricity and magnetism; Plus experimental laboratory sessions

##### Year 2

Algebra 2A; Analysis 2A; Ordinary differential equations and control; Analysis 2B; Vector calculus and partial differential equations; Programming skills; Quantum and atomic physics; Thermal physics; Electromagnetism 1; Condensed matter physics 1; Plus optional experimental laboratory sessions

Placement/study abroad

##### Final year

Final year project or Industry team project or Communicating physics project; Self-directed learning; Plus optional units

#### Units MSci route

##### Year 1

Analysis 1; Algebra 1A; Methods and applications 1A; Properties of matter; Vibrations, waves and optics; Algebra 1B; Methods and applications 1B; Introduction to quantum physics; Electricity and magnetism; Plus experimental laboratory sessions

##### Year 2

Algebra 2A; Analysis 2A; Ordinary differential equations and control; Analysis 2B; Vector calculus and partial differential equations; Programming skills; Quantum and atomic physics; Thermal physics; Electromagnetism 1; Condensed matter physics 1; Plus optional experimental laboratory sessions

Placement/study abroad

##### Penultimate year

Advanced real analysis; Mathematical methods 1; Self-directed learning; Simulation techniques; Mathematical methods 2; Computational physics B; Electromagnetism 2; Mathematical physics; Plus optional units (including Industry team project or Communicating physics project)

##### Final year

Final year project; Continuum mechanics; Quantum mechanics; Elasticity; Advanced quantum theory; Plus optional units

#### Professional accreditations

- Accredited by the Institute of Physics for the purpose of partially meeting the educational requirements for a Chartered Physicist.

#### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/phys](http://go.bath.ac.uk/phys)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

#### Placements

Apply your skills and knowledge to a year working full-time in a scientific or other professional organisation. It is an excellent opportunity to evaluate future career paths and broaden your experience and transferable skills, giving a competitive edge when applying for graduate jobs. Recent employers include BAE Systems, CERN, Dyson, Morgan Stanley, Rolls-Royce and Samsung.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

#### Year abroad

Broaden your horizons by spending a year studying at a university abroad. You'll experience another culture whilst studying a course that complements your studies at Bath.

We currently have links with universities in the United States, Australasia, Asia and Europe, including Binghamton University, National University Singapore, the University of Canterbury and the University of Helsinki.

#### Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Written examination

#### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

#### Contact time with staff\*

In your first year, you should expect to spend 36% of your time in a lecture, seminar or practical/lab setting and 64% of the time in independent study. Your unit option choices will determine your future contact hours.

#### Typical offer: A\*AA

#### Entry requirements

##### GCSE

4 or C in English (or equivalent from category C – see page 30).

##### A level

A\*AA including Mathematics and Physics with A\* in Mathematics or Physics (or Further Mathematics if applicable).

##### International Baccalaureate Diploma

36 points and 7, 6, 6 in three Higher Level subjects including Mathematics and Physics.

You may be considered if you are taking Standard Level Physics.

## Physics

|      |   |
|------|---|
| F300 | BSc (Hons) Three years  |
| F301 | BSc (Hons) Four years including placement year                                    |
| F307 | BSc (Hons) Four years including study year abroad                                 |
| F303 | MPhys (Hons) Four years   |
| 3SAM | MPhys (Hons) Five years including placement year                                  |
| F312 | MPhys (Hons) Four years including study year abroad                               |
| F313 | MPhys (Hons) Four years including six -month research placement                   |
| O2VD | MPhys (Hons) Five years including placement year and six-month research placement |

### Master the mysteries of physics from first principles to advanced problem-solving. You'll be prepared for a career in industry or academia.

Physics is 'the science of everything'. Study matter, energy and how they interact, from subatomic to cosmological scales.

Learn about the structure of physical laws and take part in their discovery. Along the way, you will learn to think like a physicist. You'll also develop powerful problem-solving skills, preparing you not only for a career in physics, but many other fields as well.

You'll graduate with the knowledge and skills of an independent scientist, with sound mathematical and experimental expertise, and the ability to solve complex problems on your own.

The Master of Physics (MPhys) degree gives you the opportunity to enhance and deepen your knowledge compared to BSc courses, particularly in topics at the forefront of research. You'll study masters-level units and carry out a major research project, giving you ideal preparation for postgraduate study or a career in research.

#### Units BSc route

##### Year 1

Properties of matter; Electric circuits; Classical mechanics; Vibrations, waves and optics; Introduction to quantum physics; Electricity and magnetism; Relativity and astrophysics; Mathematical methods for physics 1; Experimental physics and computing 1

##### Year 2

Quantum and atomic physics; Particles, nuclei and stars; Thermal physics; Electromagnetism 1; Condensed matter physics 1; Planets and exoplanets; Mathematical methods for physics 2; Experimental physics and computing 2

Placement/study abroad

##### Final year

Final year project or Industry team project or Communicating physics project; Plus optional units

#### Units MPhys route

##### Year 1

Properties of matter; Electric circuits; Classical mechanics; Vibrations, waves and optics; Introduction to quantum physics; Electricity and magnetism; Relativity and astrophysics; Mathematical methods for physics 1; Experimental physics and computing 1

##### Year 2

Quantum and atomic physics; Particles, nuclei and stars; Thermal physics; Electromagnetism 1; Condensed matter physics 1; Planets and exoplanets; Mathematical methods for physics 2; Experimental physics and computing 2

Placement/study abroad

##### Penultimate year

Quantum mechanics; Electromagnetism 2; Project/placement preparation; Students must select at least two from the following: Computational physics A; Computational physics B; MPhys laboratory; Plus optional units

##### Final year

MPhys research project or MPhys research placement; Advanced problem solving; Plus optional units

#### Professional accreditations

- Accredited by the Institute of Physics for the purpose of partially meeting the educational requirements for a Chartered Physicist.

#### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/physics](http://go.bath.ac.uk/physics)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

#### Placements

Apply your skills and knowledge to a year working full-time in a scientific or other professional organisation. It is an excellent opportunity to evaluate future career paths and broaden your experience and transferable skills, giving a competitive edge when applying for graduate jobs. Recent employers include BAE Systems, CERN, Dyson, Morgan Stanley, Rolls-Royce and Samsung.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

#### Research Placement

As an MPhys student, you'll be able to undertake a research placement in the final year of the course. You'll spend six months (July to December) working in a research organisation of international standing, before returning to the University for the final semester. We have links with leading research organisations, including CERN, NTT Basic Research Laboratories (Japan), European Synchrotron Radiation Facility (France) and Rutherford Appleton Laboratory.

#### Study abroad

Broaden your horizons by spending a year studying at a university abroad. You'll experience another culture whilst studying a course that complements your studies at Bath. We currently have links with universities in the United States, Australasia, Asia and Europe, including Binghamton University, National University Singapore, the University of Canterbury and the University of Helsinki.

#### Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Written examination

#### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

#### Contact time with staff\*

In your first year, you should expect to spend 30% of your time in a lecture, seminar or practical/lab setting and 70% of the time in independent study. Your unit option choices will determine your future contact hours.

#### Typical offer: A\*AA

#### Entry requirements

##### GCSE

4 or C in English (or equivalent from category C – see page 30).

##### A level

A\*AA including Mathematics and Physics with A\* in Mathematics or Physics (or Further Mathematics if applicable).

##### International Baccalaureate Diploma

36 points and 7, 6, 6 in three Higher Level subjects including Mathematics and Physics.

You may be considered if you are taking Standard Level Mathematics or Physics (but not both).

## Physics with Astrophysics

|      |   |
|------|---|
| F314 | BSc (Hons) Three years  |
| F315 | BSc (Hons) Four years including placement year                                    |
| F316 | BSc (Hons) Four years including study year abroad                                 |
| F317 | MPhys (Hons) Four years   |
| 2RT5 | MPhys (Hons) Five years including placement year                                  |
| F321 | MPhys (Hons) Four years including study year abroad                               |
| F318 | MPhys (Hons) Four years including six-month research placement                    |
| F320 | MPhys (Hons) Five years including placement year and six-month research placement |

### Gain in-depth specialist knowledge of how to apply physics to understand the origins and evolution of the universe.

Learn about the fundamental theoretical physics describing the intertwining of space, time, matter and energy. Topics covered include exoplanets, galaxies, cosmology, stars and stellar evolution, general relativity and high energy astrophysics.

You'll study physical systems under conditions that exceed anything we could conceivably create on Earth, such as extrasolar planets or the extreme end states of stellar evolution. You'll learn how to assemble evidence from astronomy to build theoretical models of the cosmos.

You'll graduate with the knowledge and skills of an independent scientist, with sound mathematical and experimental expertise, and the ability to solve complex problems on your own.

The Master of Physics (MPhys) degree gives you the opportunity to enhance and deepen your knowledge compared to BSc courses, particularly in topics at the forefront of research. You'll study masters-level units and carry out a major research project, giving you ideal preparation for postgraduate study or a career in research.

#### Units BSc route

##### Year 1

Properties of matter; Electric circuits; Classical mechanics; Vibrations, waves and optics; Introduction to quantum physics; Electricity and magnetism; Relativity and astrophysics; Mathematical methods for physics 1; Experimental physics and computing 1

##### Year 2

Quantum and atomic physics; Particles, nuclei and stars; Thermal physics; Electromagnetism 1; Condensed matter physics 1; Planets and exoplanets; Mathematical methods for physics 2; Experimental physics and computing 2

Placement/study abroad

##### Final year

Final year project or Industry team project or Communicating physics project; General relativity; Fluid dynamics in physics and astrophysics; Stars and stellar evolution; Galaxies and introduction to cosmology; Plus optional units

#### Units MPhys route

##### Year 1

Properties of matter; Electric circuits; Classical mechanics; Vibrations, waves and optics; Introduction to quantum physics; Electricity and magnetism; Relativity and astrophysics; Mathematical methods for physics 1; Experimental physics and computing 1

##### Year 2

Quantum and atomic physics; Particles, nuclei and stars; Thermal physics; Electromagnetism 1; Condensed matter physics 1; Planets and exoplanets; Mathematical methods for physics 2; Experimental physics and computing 2

Placement/study abroad

##### Penultimate year

Quantum mechanics; General relativity; Fluid dynamics in physics and astrophysics; Stars and stellar evolution; Electromagnetism 2; Project/placement preparation; Galaxies and introduction to cosmology; Students must select at least one from the following: Computational astrophysics; Computational physics B; MPhys laboratory; Plus optional units

##### Final year

MPhys research project or MPhys research placement; Relativistic cosmology; High energy astrophysics; Advanced problem solving; Plus optional units

#### Professional accreditations

- Accredited by the Institute of Physics for the purpose of partially meeting the educational requirements for a Chartered Physicist.

#### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/physics](http://go.bath.ac.uk/physics)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

#### Placements

Apply your skills and knowledge to a year working full-time in a scientific or other professional organisation. It is an excellent opportunity to evaluate future career paths and broaden your experience and transferable skills, giving a competitive edge when applying for graduate jobs. Recent employers include BAE Systems, CERN, Dyson, Morgan Stanley, Rolls-Royce and Samsung.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

#### Research Placement

As an MPhys student, you'll be able to undertake a research placement in the final year of the course. You'll spend six months (July to December) working in a research organisation of international standing, before returning to the University for the final semester. We have links with leading research organisations, including CERN, NTT Basic Research Laboratories (Japan), European Synchrotron Radiation Facility (France) and Rutherford Appleton Laboratory.

#### Study abroad

Broaden your horizons by spending a year studying at a university abroad. You'll experience another culture whilst studying a course that complements your studies at Bath. We currently have links with universities in the United States, Australasia, Asia and Europe, including Binghamton University, National University Singapore, the University of Canterbury and the University of Helsinki.

#### Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Written examination

#### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

#### Contact time with staff\*

In your first year, you should expect to spend 30% of your time in a lecture, seminar or practical/lab setting and 70% of the time in independent study. Your unit option choices will determine your future contact hours.

#### Typical offer: A\*AA

#### Entry requirements

##### GCSE

4 or C in English (or equivalent from category C – see page 30).

##### A level

A\*AA including Mathematics and Physics with A\* in Mathematics or Physics (or Further Mathematics if applicable).

##### International Baccalaureate Diploma

36 points and 7, 6, 6 in three Higher Level subjects including Mathematics and Physics.

You may be considered if you are taking Standard Level Mathematics or Physics (but not both).

# Politics

**3rd** for Graduate Prospects for Politics in the Times and Sunday Times Good University Guide 2018

**Top ten** for career after six months in Politics in The Guardian University Guide 2018

#### Courses for this subject

- French and Politics
- German and Politics
- Italian *ab initio* and Politics
- Spanish and Politics
- Politics and International Relations
- Politics with Economics

#### The study of politics looks at the process of gaining and exerting governance. How is power handled and where does it lie?

There are few more exciting and relevant disciplines than that of politics. You'll explore and make sense of current issues at a national and global level. This will provide you with an invaluable understanding of the world. You'll learn how to identify and respond to challenges facing contemporary political systems.

We specialise in international and European politics. Our academic staff have particular expertise in EU politics, British politics, gender politics and extremism.

#### Teaching

You'll learn from academics with expertise in contemporary politics. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

#### Careers

Our politics graduates are found in a wide range of public, private and voluntary sector jobs. Popular destinations are jobs in the banking and finance industries, the media, public administration, and national, European and international political institutions and organisations.

Recruiters include: Foreign & Commonwealth Office, Nine Feet Tall, National Bank of Abu Dhabi, Lloyds Banking Group, Department for Business, Energy and Industrial Strategy. Many graduates have chosen to pursue an academic career with further study.

#### Have you thought about...?

- International Development with Economics - see page 78
- International Management with Modern Languages - see page 44
- Modern Languages and European Studies - see pages 79



"The University of Bath has such helpful and friendly staff. The lecturers email you straight away and you have such a good feedback on your studies."

Ervinas Janavicius, BSc Politics with Economics



## Language and Politics

- RL12 | BA (Hons) French and Politics Four years including year abroad
- RL22 | BA (Hons) German and Politics Four years including year abroad
- RL23 | BA (Hons) Italian *ab initio* and Politics Four years including year abroad
- RL42 | BA (Hons) Spanish and Politics Four years including year abroad

### Master one European language and gain the skills to analyse the social, political and economic changes affecting Europe and the world.

This degree enables you to combine a European language with the study of the politics of the societies in which your chosen language is spoken.

In the course, the language and politics strands carry equal weighting. You will gain a strong competence in both your chosen language and in relevant issues of world politics.

The first and second years are about key political concepts and the culture and society of your target language. You will be able to choose from some optional units, enabling you to focus on areas of most relevance to you.

During the third year you will spend a year abroad. The year abroad assessment contributes towards your final degree classification.

In the final year, you will write a year-long dissertation supervised by an academic member of staff. There are several optional units you can choose, allowing you to focus on areas that you are most interested in and excited by.

### Year abroad

On your year abroad you will spend time in the country of your chosen language either within Europe or beyond. You can spend your time on a study placement at a foreign university (usually an exchange with one of our Erasmus+ or other international partners), as a language assistant in a school, or on a work placement. You can also have the flexibility of a combination of any of these options.

Our dedicated and experienced Placements Officer will support and guide you through the recruitment process to gain your placement.

Our students have previously spent their year abroad working for:

- Optimy (France/Belgium)
- Simmons & Simmons (France/Belgium)
- Freshfields (Spain/Latin America)
- PwC (Spain/Latin America)
- Siemens (Germany)
- Zanker und Kollegen (Germany)
- Di Palma Associati (Italy)
- Unilever (Italy)

### Assessment methods

- Coursework
- Dissertation
- Essay
- Oral assessment
- Seminar
- Written examination

### Delivery methods

- Lectures
- Practical sessions
- Seminars
- Tutorials

### Typical offer: AAB

#### Entry requirements

##### GCSE

4 or C in English (or equivalent from category C – see page 30).

For any of these degrees you may be considered if you are taking your chosen language at Standard Level.

#### French

**A level:** AAB including A in French.

**International Baccalaureate:** 36 points and 6, 6, 5 in three Higher Level subjects including 6 in French.

#### German

**A level:** AAB including A in German.

**International Baccalaureate:** 36 points and 6, 6, 5 in three Higher Level subjects including 6 in German.

#### Italian (*ab initio*)

**A level:** AAB in three A levels.

**International Baccalaureate:** 36 points and 6,6,5 in three Higher Level subjects.

**GCSE:** 7 or A in a foreign language (or equivalent).

#### Spanish

**A level:** AAB including A in Spanish.

**International Baccalaureate:** 36 points and 6, 6, 5 in three Higher Level subjects including 6 in Spanish.

#### Contact time with staff\*

The time that you spend in a lecture or seminar setting will vary according to the languages that you choose to study, and also on the units that you select. Please see below for course-specific information about contact time in your first year. Your unit options will determine your future contact hours.

In your first year, you should expect to spend 19% of your time in a lecture or seminar setting and 81% of the time in independent study.

In your first year, you should expect to spend 19% of your time in a lecture or seminar setting and 81% of the time in independent study.

In your first year, you should expect to spend 22% of your time in a lecture or seminar setting and 78% of the time in independent study.

In your first year, you should expect to spend 19% of your time in a lecture or seminar setting and 81% of the time in independent study.

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/mod-lang-pol](http://go.bath.ac.uk/mod-lang-pol)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

RL12 | BA (Hons) French and Politics  
Four years including year abroad

**Units**

**Year 1**

France and the Revolution(s): 1789-1968; French written and spoken language 1; Introduction to comparative politics; Introduction to politics: theory and analysis; Introduction to international relations; Plus optional units

**Year 2**

Continuity and change in contemporary French politics and society, 1969 to today; French written and spoken language 2; Research design and methods; Political theory; Plus optional units

Year 3 - Year abroad

**Year 4**

Politics dissertation; French written and spoken language 3; Plus optional units

RL22 | BA (Hons) German and Politics  
Four years including year abroad

**Units**

**Year 1**

Deutschland 1871 bis 1989; German written and spoken language 1; Introduction to comparative politics; Introduction to politics: theory and analysis; Introduction to international relations; Plus optional units

**Year 2**

Die DDR und das vereinigte Deutschland; German written and spoken language 2; Research design and methods; Political theory; Plus optional units

Year 3 - Year abroad

**Year 4**

Politics dissertation; German written and spoken language 3; Plus optional units

RL23 | BA (Hons) Italian *ab initio* and Politics  
Four years including year abroad

**Units**

**Year 1**

The making and shaping of a new nation-state: Italy 1815-1945; Italian written and spoken language 1 (*ab initio*); Introduction to comparative politics; Introduction to politics: theory and analysis; Introduction to international relations; Plus optional units

**Year 2**

Italy since 1945: politics, culture and society; Italian written and spoken language 2; Research design and methods; Political theory; Plus optional units

Year 3 - Year abroad

**Year 4**

Politics dissertation; Italian written and spoken language 3; Plus optional units

RL42 | BA (Hons) Spanish and Politics  
Four years including year abroad

**Units**

**Year 1**

Spain from 1898 to the present; Spanish written and spoken language 1; Introduction to comparative politics, Introduction to politics: theory and analysis; Introduction to international relations; Plus optional units

**Year 2**

Introduction to 20th and 21st century Latin America; Spanish written and spoken language 2; Research design and methods; Political theory; Plus optional units

Year 3 - Year abroad

**Year 4**

Politics dissertation; Spanish written and spoken language 3; Plus optional units

**Further information and contact details**

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/mod-lang-pol](http://go.bath.ac.uk/mod-lang-pol)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Politics and International Relations

L291 | BSc (Hons) Three years

L290 | BSc (Hons) Four years including placement year

### Gain a solid grounding in politics, whilst developing your understanding of global developments, ideology and international history.

On this course, you will develop your knowledge and analytical skills to understand politics at the local, domestic, regional and international levels. The integrated study of politics and international relations allows you to tailor your degree to suit your interests.

In the first year, you'll study British politics, international political economy and international relations.

During the second year, you will delve into further political analysis and theory. You will learn about research design and data analysis.

In your final year, you'll write a dissertation and select optional units relating to your interests.

### Units

#### Year 1

- Introduction to comparative politics
- Introduction to politics: theory and analysis
- Introduction to British politics
- Introduction to international political economy
- Introduction to international relations
- Plus optional units

#### Year 2

- International organisation
- Research design and methods
- Political theory
- Foreign policy-making and its analysis
- International comparative politics
- Advanced international relations
- Plus optional units

#### Placement

#### Final year

- Politics dissertation
- Plus optional units

Examples of current optional units:

- European Union politics
- The politics of ethnicity, religion, and nationalism
- Peace processes in the Middle East and Europe
- Comparative elections and voting
- The rise of the extreme right: from the margins to the mainstream
- Politics in China

### Placements

The placement year is an opportunity for you to use the theory you have learnt in a practical context. You will learn about an organisation and its area of work. This is an excellent opportunity to test potential career paths. Sometimes permanent jobs are offered to our students. You'll develop skills such as teamwork, planning, problem-solving, decision-making and project management.

Employers value a year of professional work and you'll gain an advantage in the job market. Over the years, we have built contacts with a large number of organisations that can provide the high standard of training we expect.

Our students have taken placements at: House of Commons, House of Lords, local UK political party offices, Confederation of British Industry (CBI), NGOs, political think tanks, World Food Programme, lobbying companies, International Development consultancies.

In addition, many of our students choose business placements with companies such as IBM, Google, Deloitte, Goldman Sachs and Morgan Stanley.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Seminar
- Written examination

### Delivery methods

- Lectures
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 15% of your time in a lecture or seminar setting and 85% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or A\*AB

### Entry requirements

#### GCSE

4 or C in English (or equivalent from category C – see page 30).

#### A level

AAA or A\*AB in three A levels.

#### International Baccalaureate Diploma

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects.

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/pol-int-relations](http://go.bath.ac.uk/pol-int-relations)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Politics with Economics

L2L1 | BSc (Hons) Three years  
L2LC | BSc (Hons) Four years including placement year

### Develop your knowledge of politics and economics. You'll explore contemporary topics at national and global levels.

This degree combines the study of political science with engagement in global politics and governance. It will appeal if you're interested in issues of global power, decision-making, democracy and inequality.

You'll cover topics such as global development, political ideologies and economic thought. This will be explored through the study of a range of contemporary economic and political challenges facing international society.

The course will provide you with a solid understanding of politics. The present day focus means you'll look at both national and international issues, such as terrorism and climate change.

Year 1 focuses on concepts and theories relating to both politics and international relations. You'll explore studies of recent history and contemporary political and economic systems. In your second and final years, you will deepen your knowledge in core subjects and you may select from optional topics. You will also undertake a year-long, supervised dissertation in politics.

### Units

#### Year 1

- Introduction to comparative politics
- Introduction to politics: theory and analysis
- Introduction to British politics
- Introduction to international relations
- Introductory economics
- Plus optional units

#### Year 2

- Economics of politics
- Research design and methods
- Political theory
- Economic thought and policy
- Quantitative research methods
- International comparative politics
- Plus optional units

### Placement

#### Final year

- Politics dissertation
- Plus optional units

Examples of current optional units:

- European Union politics
- Conflict, security and international development
- Lobbying, policy communications and democracy
- The rise of the extreme right: from the margins to the mainstream
- Modern silk roads: international trade in a global economy

### Placements

The placement year is an opportunity for you to use the theory you have learnt in a practical context. You will learn about an organisation and its area of work. This is an excellent opportunity to test potential career paths. Sometimes permanent jobs are offered to our students.

You'll develop skills such as teamwork, planning, problem solving, decision making and project management. Employers value a year of professional work and you'll gain an advantage in the job market.

Over the years we have built contacts with a large number of organisations that can provide the high standard of training we expect. Recent student placements include: Goldman Sachs, Morgan Stanley, American Express, Lloyds Banking Group, Disney Corporation, Nike Inc. and Airbus.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Attendance
- Coursework
- Dissertation
- Seminar
- Written examination

### Delivery methods

- Lectures
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 19% of your time in a lecture or seminar setting and 81% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAA or A\*AB

### Entry requirements

#### GCSE

7 or A in Mathematics and 4 or C in English (or equivalent from category C – see page 30).

#### A level

AAA or A\*AB in three A levels.

#### International Baccalaureate Diploma

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects.

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/pol-econ](http://go.bath.ac.uk/pol-econ)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Psychology

**1st** for Psychology in The Guardian University Guide 2018

**1st** for Graduate Prospects for Psychology in the Times and Sunday Times Good University Guide 2018

**2nd** for Psychology in The Complete University Guide 2018

## Course for this subject

- Psychology

Main image: Student demonstrating Bandura's classic experiments in Social Learning.

**Psychology is the scientific study of mental life and human behaviour. It explains how we think, feel and act, both individually and as part of a social group.**

The study of psychology is based on scientific principles and involves a range of research methods. This includes experiments, brain imaging, interviews, case studies and observations.

You'll develop analytical skills such as statistical techniques and in-depth qualitative methods to explain or predict behaviour.

We offer distinctive topics that are not always found in undergraduate psychology degrees. These include social action and change, and neuroeconomics.

The innovative research of our academic staff informs our teaching. This provides you with exposure to an active research environment.

## Teaching

You'll learn from academics with expertise in clinical, health, social, developmental, and cognitive psychology. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

## Careers

A psychology degree prepares you for clinical, counselling, health, educational, market research and occupational roles. It is also valued in communications, management, police work and social research careers.

Graduate destinations include: NHS Foundation Trust, Foresight Factory, Department for International Development, University College London, Solent Mind, Beauregard Retirement Home, Teach First.

Much professional work in psychology requires further specialist training. Over half of our graduates go on to specialist graduate training in psychology.

## Facilities

The Department of Psychology is located in a brand new £30 million building. You'll be able to use the dedicated space for your seminars, group meetings and computer work.

There are two floors of advanced psychology research space. This includes:

- an electroencephalogram (EEG) scanner
- a virtual reality lab with motion sensor cameras
- rooms for observation, interview and focus group research
- a biopsychology suite with two-way mirror
- eye-tracking equipped computers
- sensory and pain research suite
- crossmodal laboratory including a soundproof room.

## Have you thought about...?

- Education with Psychology - see page 66
- Social Sciences - see page 117
- Sport and Exercise Science - see page 121



"I've learnt so much and it has really helped guide me where I want to go after my degree."

Nadia Craddock, BSc Psychology

## Psychology

- C801 | BSc (Hons) Three years  
 C800 | BSc (Hons) Four years including placement year  
 8C82 | MSci (Hons) Four years  
 8C92 | MSci (Hons) Five years including placement year

### Gain a solid grounding across the discipline with a focus on biological, clinical, cognitive, health and social psychology.

This course offers the rigour of a science degree, with insights into every aspect of psychology recognised by the British Psychological Society.

In Year 1, you will gain an understanding of basic concepts, methods and theories in psychology. In Year 2, you will cover the core areas of psychology and be introduced to research methods and project work. You will be trained in experimental methods, questionnaire research and qualitative analysis.

Optional units enable you to study topics that are not always found in psychology degrees. These include health psychology and clinical psychopathology, as well as units from other subjects.

In your final year, you'll complete a research project and select optional units relating to the current research interests of academic staff.

The undergraduate master's (MSci) equips you with the practical and analytical skills to conduct independent research. This can focus on an area that interests you. This advanced qualification puts you ahead of other holders of bachelors' degrees in the job market. You will be well prepared for further study.

#### Units BSc route

##### Year 1

- Mind and behaviour
- Quantitative research methods
- Controversies in psychology 1
- Applying psychology
- Controversies in psychology 2
- Research methods and design 1
- Plus optional units

##### Year 2

- Cognitive neuroscience
- Social psychology, personality and individual differences
- Developmental psychology
- Research project
- Quantitative methods
- Research methods and design 2
- Plus optional units

#### Placement

##### Final year

- Psychology dissertation
- Plus optional units

Examples of current optional units:

- Organisational psychology
- Developmental psychopathology
- Contemporary educational psychology
- Forensic psychology
- Clinical psychology

#### Professional accreditations

- This course is accredited by and confers eligibility for Graduate Basis for Chartered Membership of the British Psychological Society.

#### Units MSci route

##### Year 1

- Mind and behaviour
- Quantitative research methods
- Controversies in psychology 1
- Applying psychology
- Controversies in psychology 2
- Research methods and design 1
- Plus optional units

##### Year 2

- Cognitive neuroscience
- Social psychology, personality and individual differences
- Developmental psychology
- Research project
- Quantitative methods
- Research methods and design 2
- Plus optional units

#### Placement

##### Penultimate year

- Psychology dissertation
- Plus optional units

##### Final year

- Advanced psychology dissertation
- Advanced research methods
- Professional skills
- Plus optional units

#### Placement

We are one of very few UK degree courses in psychology to offer a placement opportunity that is for an academic year. In the placement year, you'll apply the theory you have learnt in a practical context.

You will learn about an organisation and its area of work. This is an excellent opportunity to test potential career paths. You'll develop skills such as teamwork, planning, problem-solving, decision making and project management. Employers value a year of professional work and you'll gain an advantage in the job market.

Our students have taken placements at: the Centre for Research in Autism and Education, the National Crime Agency, Inspectorate of Prisons, Great Ormond Street Hospital, Institute of Child Health and also universities in the United States, Australia, New Zealand and South Africa. Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

#### Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Written examination
- Other

#### Delivery methods

- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

#### Contact time with staff\*

In your first year, you should expect to spend 18% of your time in a lecture or seminar setting and 82% of the time in independent study. Your unit option choices will determine your future contact hours.

#### Extra costs

The following course-related costs are not included in your fees:

- Optional field course to the Gower, approximately £300 payable in your second year.
- Disclosure and Barring Service (DBS) check, depending on your placement, approximately £50 payable before the start of your third year.

#### Typical offer: A\*AA

#### Entry requirements

##### GCSE

6 or B in Mathematics and English (or equivalent from category A – see page 30). We strongly prefer applicants who have 7 or A in Mathematics and prefer applicants with 7 or A in English.

##### A level

A\*AA in three A levels.

We prefer applicants who have studied both essay-based and numerical or analytical subjects at A level. Preferred subjects include: Anthropology, Biology, Chemistry, Classics, Economics, English, Geography, History, Mathematics, Modern Languages, Philosophy, Physics, Politics, Psychology, Religious Studies, Sociology and Statistics. Your offer can include A level Mathematics or Further Mathematics, but not both.

##### International Baccalaureate Diploma

36 points and 7, 6, 6 in three Higher Level subjects.

#### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/psych](http://go.bath.ac.uk/psych)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Social work



**2nd** for Social Work in The Guardian University Guide 2018

**4th** for Social Work in The Complete University Guide 2018

**Joint 3rd** for course satisfaction for Social Work in The Guardian University Guide 2018

#### Course for this subject

- Social Work and Applied Social Studies

**Social workers work with individuals and families to help improve their lives. They act as advocates, and direct people to the services they may need.**

Social work is a profession that is centred around people. You will learn how to support a wide range of people in diverse and complex situations. You'll develop professional capabilities in respect of social work knowledge, values and skills.

Professionally qualified social workers work in multidisciplinary environments to empower individuals, families and communities within society.

#### Teaching

You'll learn from academics with expertise in the social sciences and social work. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

#### Careers

As a professionally qualified social worker, you might work in a range of health and social care settings. Increasingly, employment opportunities arise in multidisciplinary settings where social workers work alongside education, health care and legal professionals.

Companies and organisations our graduates have gone on to work for include: Partnership NHS Trust, First Steps, 4Children, Sirona Care & Health, and the Trauma Recovery Centre.

#### Have you thought about...?

- Addictions Counselling - see page 60
- Education with Psychology - see page 66
- Social Policy - see page 115



"My time at Bath provided me with the confidence and competence to practice at the standard expected of a newly qualified social worker."

Zoe Ash, BSc Social Work and Applied Social Studies

## Social Work and Applied Social Studies

L501 | BSc (Hons) Three years

### Prepare yourself for a career as a professional social worker. Develop and apply your knowledge of sociology, social policy, psychology and research methods.

On this degree you'll study the social sciences as a foundational base. Within this, you will develop more specific social work knowledge, values and skills.

As part of the course, you will apply your knowledge to the practice of social work. This is through the undertaking of 170 assessed practice days in Years 2 and 3, plus 30 skills days. You will gain research skills with particular focus on investigation, assessment and critical analysis.

In the first year, you will explore key topics in social policy, research methods, sociology and psychology. You will also be introduced to social work and learn about social work values. This will prepare you to apply your professional skills and theoretical and research knowledge to practice.

In Years 2 and 3 you will build on this by studying areas of social work practice, including social work with children and families, mental health social work and social work with adults. You will also develop analytical, problem-based learning and transferable skills.

The course will prepare you for professional social work or further study.

### Units

#### Year 1

- Community needs assessment, groups and teamwork in practice
- Social problems and social policy
- Introduction to social work
- Understanding society: Britain in global context
- Social work and life course 1
- Social policy, welfare and the state
- Classical sociological theory
- Social work and life course 2
- Readiness for direct social work practice

#### Year 2

- Critical reflection on professional practice 1
- Discrimination and empowerment: skills in practice
- Social work practice placement year 2
- Theories and methods in social work
- Social work with children and families 1
- Mental health social work 1
- Social work with adults 1

#### Year 3

- Social work with children and families 2
- Working in a social care organisation
- Mental health social work 2
- Social work with adults 2
- Critical reflection on professional practice 2
- Social work practice case study
- Social work practice placement year 3

### Professional accreditations

- On successful completion of this course you will be able to apply to register as a social worker with the Health and Care Professions Council (HCPC).

### Assessment methods

- Attendance
- Coursework
- Essay
- Portfolio
- Seminar
- Written examination

### Delivery methods

- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 32% of your time in a lecture or seminar setting and 68% of the time in independent study.

### Extra costs

The following course-related costs are not included in your fees:

- Disclosure and Barring Service (DBS) check, £50 payable at the start of your course.
- Placement Travel Costs: You are responsible for covering the cost of travel to your placement in Years 2 and 3. These costs will vary depending on your placement location. If you are eligible for a social work bursary, then you may find some of these costs covered through the Placement Travel Allowance. The NHS bursary website has further details.

### Typical offer: ABB

### Entry requirements

#### GCSE

4 or C in Mathematics and 4 or C in English (or equivalent from category B – see page 30).

#### A level

ABB in three A levels.

#### Access to HE Diploma

A pass with 30 credits awarded at Distinction and 9 credits awarded at Merit or above.

#### BTEC

DDD in a Level 3 Extended Diploma (QCF or RQF).

You will need to obtain an Enhanced Disclosure and Barring Service (DBS) check during this course.

If you are a student who requires a Tier 4 visa you will not be able to join this course.

### Further information and contact details

\*For more information about accreditation, entry requirements, units and contact hours visit: [go.bath.ac.uk/soc-work-applied](http://go.bath.ac.uk/soc-work-applied)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019



# Sociology, social policy and criminology

**2nd** for Sociology in The Guardian University Guide 2018

**4th** for Sociology in The Complete University Guide 2018

**4th** for Social Policy and Administration in The Guardian University Guide 2018

#### Courses for this subject

- Sociology
- Social Policy
- Sociology and Social Policy
- Social Sciences
- Criminology

#### Social and policy sciences blend the scientific study of individual and social behaviour to understand the dynamics of power and social justice.

The study of social and policy sciences uses methods of social enquiry and critical analysis. This allows you to understand people as they adapt to and create new orders and disorders.

You'll have room for creativity, as you actively explore solutions to the world's most pressing problems. You'll learn how to hold those in power to account.

Criminology looks at crime from a social perspective. It examines the causes and impact of crime, as well as the operation of the criminal justice system.

Through our courses, you'll be able to explore issues such as climate change, child wellbeing, the role of technology in society, social mobility, poverty and inequality, the gender pay gap, victimisation and criminal justice.

#### Teaching

You'll learn from academics with expertise across the social sciences. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience. Our researchers have specialisms in: children and families, justice and rights, poverty, policy design, health, migration, violence and crime.

#### Careers

Those who study our social sciences degrees have excellent career options. Our graduates have worked as social and policy researchers, civil servants, international consultants, journalists, accountants and in a variety of government and business-related roles.

They have gone on to work for: Save the Children, Office of the Police and Crime Commissioner, Education Support Partnership, Virgin Media, Viiv Healthcare, Rolls-Royce, and Richmond Housing Partnership.

#### Have you thought about...?

- Education with Psychology - see page 66
- International Development with Economics - see page 77
- Politics and International Relations - see page 107
- Social Work - see page 111



"My department has been really helpful in giving feedback on essays, career opportunities, placements or anything related to the course"

Monica Rodil Diaz, BSc Sociology

## Sociology

L300 | BSc (Hons) Three years

L304 | BSc (Hons) Four years including placement year

### Gain a solid grounding in social theory and social research methods. Develop a critical and historical understanding of the social forces that shape our lives.

In this degree, you'll study core topics in social theory and social research methods. The flexibility in this course enables you to choose relevant units from sociology, social policy and international development.

This course will appeal if you want to identify and explore the social factors that have shaped lives and social situations. You will gain an analytical and methodological foundation for the study of collective and individual behaviour.

You'll explore the historical understandings of social relationships, collective behaviour, institutions and social change. You will develop an appreciation of sociological concepts and theories that will help you engage with the most pressing challenges in our world today.

During the first and second years, you'll study classical and modern social theories, and qualitative and quantitative research skills. In the final year, you will write a dissertation and choose from optional units.

### Units

#### Year 1

- Classical sociological theory
- Social problems and social policy
- Understanding society: Britain in global context
- Academic and research skills 1: introduction to qualitative methods
- Social policy, welfare and the state
- Academic and research skills 2: introduction to quantitative methods
- Plus optional units

#### Year 2

- Contemporary sociological theory
- Philosophy of the social sciences
- Qualitative social research methods
- Quantitative data analysis
- Plus optional units

#### Placement

#### Final year

- Sociology dissertation
- Power in society
- Plus optional units

Examples of current optional units:

- Mind and behaviour
- Thinking and working cross-culturally: introduction to social analysis of development
- Understanding childhood
- Sociology of criminal justice policy
- Ideas about 'terrorism'

### Placements

The placement year will give you valuable practical experience and is an excellent opportunity to try different careers. It enables you to leave university with a strong CV, setting you apart from other graduates entering the job market. You can take placements in commercial, voluntary or government organisations, or in a research setting. Placements may be paid or unpaid.

Our Department of Social & Policy Sciences has established links and partnerships with many organisations. Sociology students have recently taken placements at: GSK, IBM, Pernod Ricard, Warner Bros., the NHS, Microsoft.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Oral assessment
- Practical work
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 20% of your time in a lecture or seminar setting and 80% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAB

### Entry requirements

#### GCSE

4 or C in Mathematics and 4 or C in English (or equivalent from category B – see page 30).

#### A level

AAB in three A levels.

#### International Baccalaureate Diploma

35 points and 6, 6, 5 in three Higher Level subjects.

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/soc-pol-crim](http://go.bath.ac.uk/soc-pol-crim)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Social Policy

L404 | BSc (Hons) Three years

L405 | BSc (Hons) Four years including placement year

### Develop an interdisciplinary approach to the study of how governments and societies address social welfare, social justice and individual wellbeing.

In this course, you'll analyse the transformation of the welfare state and the creation of a more diverse system of welfare. This will enable you to relate these changes to societal, technological and economic changes in Britain and elsewhere.

In the first year, you will study social policy, sociology and research methods. In social policy units, you will undertake advanced analysis of specific policy areas.

In the second year, you'll be able to study the related disciplines of sociology, psychology and politics. In your final year, you will undertake a dissertation.

### Units

#### Year 1

- Social problems and social policy
- Social policy, welfare and the state
- Understanding society: Britain in global context
- Academic and research skills 1: introduction to qualitative methods
- Classical sociological theory
- Academic and research skills 2: introduction to quantitative methods
- Plus optional units

#### Year 2

- Family matters: the sociology of the family and family policy
- Poverty, social justice and the state
- Qualitative social research methods
- Making and communicating policy: theories and practices
- Quantitative data analysis
- Society, welfare and policies in Europe
- Plus optional units

#### Placement

#### Final year

- Social policy dissertation
- Social protection and welfare reform
- Policy evaluation
- Plus optional units

Examples of current optional units:

- Thinking and working cross-culturally: introduction to social analysis of development
- Social policy and you
- Sociology of criminal justice policy
- Ideas about 'terrorism'

### Placements

The placement year will give you valuable practical experience and is an excellent opportunity to try different careers. It enables you to leave university with a strong CV, setting you apart from other graduates entering the job market. You can take placements in commercial, voluntary or government organisations, or in a research setting. Placements may be paid or unpaid.

Our Department of Social & Policy Sciences has established links and partnerships with many organisations. Social Policy students have recently taken placements at: The Health Foundation, The House of Commons, the Singapore Government, Sense, Carbon Trust, and The Body Shop.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Oral assessment
- Practical work
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 20% of your time in a lecture or seminar setting and 80% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAB

### Entry requirements

#### GCSE

4 or C in Mathematics and 4 or C in English (or equivalent from category B – see page 30).

#### A level

AAB in three A levels.

#### International Baccalaureate Diploma

35 points and 6, 6, 5 in three Higher Level subjects.

### Further information and contact details

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Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Sociology and Social Policy

LL34 | BSc (Hons) Three years

LL43 | BSc (Hons) Four years including placement year

### Develop your knowledge of sociological theory and methods. You'll combine this with an analytical focus on the history and advancement of social policy.

This course will appeal if you want to combine an interdisciplinary theoretical understanding of the social world with a rigorous analysis of policy responses to social problems.

You will examine theory and techniques from sociology alongside the analytical focus of social policy. You'll explore areas such as health, welfare and poverty, race and discrimination, inequality and exclusion.

By the end of the degree you'll have an understanding of how social institutions develop and operate.

In the first year you will study social policy, sociology and research methods. Social policy units will enable you to conduct advanced analysis of specific policy areas. Sociology units will further your understanding of sociological theories. In the second year you will be able to choose to study the related disciplines of psychology and politics. In the final year you will write a dissertation and choose from optional units.

### Units

#### Year 1

- Understanding society: Britain in global context
- Social problems and social policy
- Academic and research skills 1: introduction to qualitative methods
- Social policy, welfare and the state
- Classical sociological theory
- Academic and research skills 2: introduction to quantitative methods
- Plus optional units

#### Year 2

- Poverty, social justice, and the state
- Qualitative social research methods
- Contemporary sociological theory
- Making and communicating policy: theories and practices
- Philosophy of the social sciences
- Quantitative data analysis
- Plus optional units

### Placement

#### Final year

- Social policy dissertation
- Power in society
- Policy evaluation
- Plus optional units

Examples of current optional units:

- Mind and behaviour
- Thinking and working cross-culturally: introduction to social analysis of development
- Social policy and you
- Sociology of criminal justice policy
- Ideas about 'terrorism'

### Placements

The placement year will give you valuable practical experience and is an excellent opportunity to try different careers. It enables you to leave university with a strong CV, setting you apart from other graduates entering the job market. You can take placements in commercial, voluntary or government organisations, or in a research setting. Placements may be paid or unpaid.

Our Department of Social & Policy Sciences has established links and partnerships with many organisations. Students on related BSc (Hons) Social Policy and BSc (Hons) Sociology courses have recently taken placements at: IBM, The Ministry of Justice, L'Oréal, Hays Recruitment, and The Big Issue.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Oral assessment
- Practical work
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 20% of your time in a lecture or seminar setting and 80% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAB

### Entry requirements

#### GCSE

4 or C in Mathematics and 4 or C in English (or equivalent from category B – see page 30).

#### A level

AAB in three A levels.

#### International Baccalaureate Diploma

35 points and 6, 6, 5 in three Higher Level subjects.

### Further information and contact details

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Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Social Sciences

L305 | BSc (Hons) Three years

L306 | BSc (Hons) Four years including placement year

### Direct your own learning with a broad-based training in the social sciences.

This course offers you a comprehensive grounding in the social sciences. You will have greater flexibility to customise your studies.

You will take an interdisciplinary approach to the analysis of social issues. In Year 1 you will be introduced to social policy, sociology and research methods. You can choose to develop interests in politics or psychology.

During the final two years of the course, you can continue taking a broad-based approach, or choose to specialise in specific areas. You will continue to study compulsory units in research methods.

### Units

#### Year 1

- Academic and research skills 1: introduction to qualitative methods
- Social problems and social policy
- Understanding society: Britain in global context
- Academic and research skills 2: introduction to quantitative methods
- Social policy, welfare and the state
- Classical sociological theory
- Plus optional units

#### Year 2

- Qualitative social research methods
- Quantitative data analysis
- Plus optional units

#### Placement

#### Final year

- Social policy dissertation
- Plus optional units

Examples of current optional units:

- Mind and behaviour
- Thinking and working cross-culturally: introduction to social analysis of development
- Social policy and you
- Ideas about 'terrorism'
- Sexual violence: explanations, responses and debates

### Placements

The placement year will give you valuable practical experience and is an excellent opportunity to try different careers. It enables you to leave university with a strong CV, setting you apart from other graduates entering the job market. You can take placements in commercial, voluntary or government organisations, or in a research setting.

Our Department of Social & Policy Sciences has established links and partnerships with many organisations. Social Sciences students have recently taken placements at: the Welsh Government, UBS, The Race Equality Foundation, Xerox, Disney.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Oral assessment
- Practical work
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 20% of your time in a lecture or seminar setting and 80% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: ABB

### Entry requirements

#### GCSE

4 or C in Mathematics and 4 or C in English (or equivalent from category B – see page 30).

#### A level

ABB in three A levels.

#### International Baccalaureate Diploma

35 points and 6, 5, 5 in three Higher Level subjects.

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/soc-pol-crim](http://go.bath.ac.uk/soc-pol-crim)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Criminology

L370 | BSc (Hons) Three years

L371 | BSc (Hons) Four years including placement year

### Explore issues facing us in the 21st century relating to crime and criminal justice. Develop research and data handling skills relevant to a range of careers.

Criminology gives you a deep insight into the theories of crime, justice and punishment, by drawing on multiple perspectives and disciplines.

With a strong global focus, you'll explore crime and related topics from around the world, looking at everything from human rights and terrorism, to social justice, contemporary social problems, and the globalisation of crime.

You'll gain knowledge of how criminal justice agencies work and interact, how criminal justice policy is created, and how policing, courts and prisons present new and pressing challenges for today's world.

As well as a strong theoretical grounding, the course equips you with solid practical skills in critical enquiry, research and data.

Studying at Bath means you'll get to work with a leading team of criminal justice researchers and criminologists, with significant global expertise. There's also the chance to hone your skills further by doing a placement year in a relevant setting.

This course will particularly appeal if you're strong on critical thinking. The skills and broad-based understanding you go away with will set you up well for diverse careers, whether you decide to go into the criminal justice or legal sector, a third sector organisation or another field.

### Units

#### Year 1

- Understanding crime and justice
- Social justice and criminal justice policy: from redistribution to recognition
- Critical readings in criminology
- Understanding society: Britain in global context
- Academic and research skills 1: introduction to qualitative methods
- Deviance: psychological and sociological perspectives
- Academic and research skills 2: introduction to quantitative methods
- Classical sociological theory

#### Year 2

- Theorising crime, justice and punishment
- Analysing data: quantitative and qualitative data analysis
- Crimes of the powerful in a global context
- Sociology of criminal justice policy

#### Placement

#### Final year

- Criminology dissertation
- Crime and the media
- Ideas about 'terrorism'

Examples of current optional units:

- Social concepts of humans, monsters, and machines
- Understanding migrations
- Family matters

### Placements

The placement year will give you valuable practical experience and is an excellent opportunity to try different careers. It enables you to leave university with a strong CV, setting you apart from other graduates entering the job market. You can take placements in commercial, voluntary or government organisations, or in a research setting. Placements may be paid or unpaid.

Our Department of Social & Policy Sciences has established links and partnerships with many organisations. Students on similar courses have taken placements at: Ministry of Justice, Home Office, Metropolitan Police.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Oral assessment
- Practical work
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Online resources
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 20% of your time in a lecture or seminar setting and 80% of the time in independent study. Your unit option choices will determine your future contact hours.

### Typical offer: AAB

#### Entry requirements

##### GCSE

4 or C in Mathematics and 4 or C in English (or equivalent from category B – see page 30).

##### A level

AAB in three A levels.

##### International Baccalaureate Diploma

35 points and 6, 6, 5 in three Higher Level subjects.

### Further information and contact details

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# Sport, exercise and health

**Sports University of the Year**  
in The Times and Sunday Times Good  
University Guide 2018

**1st** for Sport Science in The Times  
and Sunday Times Good University  
Guide 2018

**2nd** for Research for Sport Science  
in The Times and Sunday Times Good  
University Guide 2018

#### Courses for this subject

- Health and Exercise Science
- Sport and Exercise Science
- Sport Management and Coaching
- Sports Performance

## The study of modern sport explores the impact of sport, exercise and health on modern society and how the body works and responds to physical activity.

You could explore sport, exercise and health, coaching, management, leisure and physical activity and how the body works. You don't need to be good at sport to take a sports degree.

Your study of sport could incorporate many other academic fields. These include physiology, psychology, anatomy, biology, biochemistry, engineering, chemistry, politics, management, education, sociology and cultural studies. Courses can cover anything from exercise physiology to the relationship between sport and the media.

#### Teaching

You'll learn from academics with expertise across sport, exercise and health. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience. Our researchers have specialisms in: injuries and illness; physical culture; sports performance; disability, sport and health; nutrition and metabolism.

#### Careers

Graduates from our courses are in demand by a wide range of employers. This includes public health, exercise medicine and rehabilitation, sports management, sports coaching and development.

Our sports graduates have gone on to work for: Eurosport, BUPA, Decipher public health centre, Active Nation, Nike, Mark Blundell Partners, Sport England, England Hockey, British Cycling, British

Athletics, UK premier league Rugby union clubs and UK Premier League football clubs.

#### Facilities

You will be able to use our £30 million Sports Training Village on campus. This provides you with access to the best sporting environment.

Our sports facilities accommodate more than 50 sports. We regularly host major international competitions and provide a dedicated sports training space.

#### Have you thought about...?

- Biomedical Sciences - see page 40
- Education with Psychology - see page 66
- Social Policy - see page 115



“The academics enthusiastically approach the course content in an innovative and engaging way. You study topics that are relevant to sport in contemporary society and tailored to your personal interests.”

Annaleise Depper, BA Sport and Social Sciences graduate (now BSc Sport Management and Coaching)

## Health and Exercise Science

- C610 | BSc (Hons) Three years  
 C611 | BSc (Hons) Four years including a placement year  
 C612 | MSci (Hons) Four years  
 C613 | MSci (Hons) Five years including placement year

### Understand the role of physical activity and exercise on health and wellbeing. Prepare yourself for a range of careers in the health sector, whether promoting health at an individual or population level.

Health and Exercise Science combines science, social science and public health. You will develop your understanding of health determinants and investigate the impact of physical activity, diet and other lifestyle behaviours on health.

This degree has three core themes running throughout the course: Exercise Science, Behavioural Medicine and Public Health.

- **Exercise Science** provides a fundamental interdisciplinary understanding of human function.
- **Behavioural Medicine** explores how we can use the principles of exercise science to promote health, or treat and prevent disease.
- **Public Health** investigates the determinants of population health, focusing particularly on the role of physical activity and lifestyle in the health of a population.

Through these core themes you will apply your knowledge to health and exercise settings and understand their relevance in current practice.

Within the core themes of Exercise Science, Behavioural Medicine and Public Health, some of the topics you will cover include: clinical and functional assessment techniques, epidemiology, exercise prescription, health technologies, nutrition, social health inequalities, sports medicine, and research methods.

Students taking the BSc/MSci Health and Exercise Science course will be prepared for a range of careers including public health, rehabilitation, physician's assistant, community sports, health promotion, health policy and exercise science.

### Course structure

Your route can be spread over three to five years, depending on the inclusion of a placement year and/or an MSci option.

#### BSc route

##### Year 1

Provides an introduction to all disciplines and progresses existing learning to cover exciting new topics and skills.

##### Year 2

Develops your understanding and further applies principles to health and exercise contexts.

Placement (optional)

##### Final year

Involves increased independent study with specialisation in disciplines of interest and a research project.

#### MSci route

##### Year 1

Provides an introduction to all disciplines and progresses existing learning to cover exciting new topics and skills.

##### Year 2

Develops your understanding and further applies principles to health and exercise contexts.

Placement (optional)

##### Penultimate year

Involves increased independent study with specialisation in disciplines of interest and preparatory units for masters level content.

##### Final year

Elevates your knowledge and understanding to masters level in specialist topics and includes an independent research project.

### Placements

The placement year will improve your skills and is an excellent opportunity to try different careers. It enables you to leave university with a strong CV, setting you apart from other graduates entering the job market.

Our Department for Health has established links and partnerships with many organisations. Our students on related degrees have recently taken placements at: GlaxoSmithKline, Army Research Training Division, Children's Hospital Research Institute of Manitoba (Canada), Nuffield Health, Harbour Sport New Zealand, BUPA, Macmillan Cancer Support, Sports Surgery Clinic Dublin, BeLife Care Netherlands, Neurokinex UK, and working within Public Health teams in local authorities.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Attendance
- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Portfolio
- Practical work
- Written examination

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 20-30% of your time in a lecture, seminar or practical/lab setting and 70-80% of the time in independent study. Your course options will determine your future contact hours.

### Extra costs

The following course-related costs are not included in your fees: Disclosure and Barring Service (DBS) Check (depending on placement) £50. You may be required to pay for a DBS check depending on the nature of the placement(s) you undertake.

### Typical offer: AAB or A\*BB or A\*AC

### Entry requirements

#### GCSE

4 or C in Mathematics, 4 or C in a science GCSE and 4 or C in English (or equivalent from category C – see page 30).

#### A level

AAB or A\*BB or A\*AC in three A levels.

#### International Baccalaureate Diploma

36 points and 6, 6, 5 in three Higher Level subjects.

#### BTEC

D\*DD in a Level 3 Extended Diploma (QCF or RQF).

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/sport-exe-health](http://go.bath.ac.uk/sport-exe-health)  
 Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019



## Sport and Exercise Science

|      |  |   |
|------|--|---|
| BC17 |  | BSc (Hons) Three years  |
| BCC7 |  | BSc (Hons) Four years including placement                                 |
| C606 |  | BSc (Hons) Four years including study year abroad                         |
| C609 |  | BSc (Hons) Four years including combined placement and study year abroad  |
| C605 |  | MSci (Hons) Four years  |
| C604 |  | MSci (Hons) Five years including placement year                           |
| C607 |  | MSci (Hons) Five years including study year abroad                        |
| C608 |  | MSci (Hons) Five years including combined placement and study year abroad |

### Develop your knowledge of biomechanics, physiology and psychology. You will understand how humans function in sport, physical activity and health environments.

This degree has three core strands running throughout the course: Biomechanics, Physiology and Psychology.

- **Biomechanics** will explore how humans create and control movement including athletes' technique.
- **Physiology** will cover the structure, function, regulation and performance of bodily systems.
- **Psychology** will examine the role of thoughts, feelings and behaviours in sport and exercise settings.

Through these core disciplines you will apply your knowledge to sports performance and exercise participation and understand the relevance of sport and exercise science to current practice.

Along with the core study of biomechanics, physiology and psychology, examples of other topics you will cover include: biochemistry, motor control, nutrition and metabolism, research methods, sports medicine and strength and conditioning.

### Course structure

Your route can be spread over three to five years, depending on the inclusion of a placement/study abroad year and/or an MSci option.

#### BSc route

##### Year 1

Provides an introduction to all disciplines and progresses existing learning to cover exciting new topics and skills.

##### Year 2

Develops your understanding and further applies scientific principles to sport and exercise contexts.

Placement (optional)

##### Final year

Involves increased independent study with specialisation in disciplines of interest and a research project.

#### MSci route

##### Year 1

Provides an introduction to all disciplines and progresses existing learning to cover exciting new topics and skills.

##### Year 2

Develops your understanding and further applies scientific principles to sport and exercise contexts.

Placement (optional)

##### Penultimate year

Involves increased independent study with specialisation in disciplines of interest and preparatory units for masters level content.

##### Final year

Elevates your knowledge and understanding to masters level in specialist topics and includes an independent research project.

### Placements

The placement is an opportunity to gain work experience. You'll improve your skills and it is a great way to try different careers. You'll leave university with a strong CV that will set you apart from other graduates. The placement year can be spent in elite sports, healthcare and industries around the globe. We advertise around 200 placement opportunities. Recent placements include: UK premier league football clubs, UK premiership Rugby union clubs, McLaren Human Performance, Australian States Sports Institutes, Hawk-eye innovations, Lane 4 management, BeLife Care Netherlands, Neurokinex UK, Harbour Sport New Zealand, Peak Centre for Human Performance Ottawa, Sports Surgery Clinic Dublin.

### Study abroad

You will have the opportunity to apply to study abroad at an approved highly ranked partner institution. Your international experience will enhance your skills and prepare you for employment in the competitive global graduate market. The study abroad option is currently available in Germany and Australia, and we continuously seek new partners to widen our study abroad offer.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Portfolio
- Practical work
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 20-30% of your time in a lecture, seminar or practical/lab setting and 70-80% of the time in independent study. Your course options will determine your future contact hours.

### Extra costs

The following course-related costs are not included in your fees: Disclosure and Barring Service (DBS) Check £50. You may be required to pay for a DBS check depending on the nature of the placement(s) you undertake.

### Typical offer: AAA or A\*AB

### Entry requirements

#### GCSE

4 or C in Mathematics, 4 or C in a science GCSE and 4 or C in English (or equivalent from category C – see page 30).

#### A level

AAA or A\*AB including A in one science or mathematics subject. We also consider you if you study both Physical Education and Psychology in place of a science.

#### International Baccalaureate Diploma

36 points and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects including 6 in at least one maths or science subject.

#### BTEC

D\*D\*D in a Level 3 Extended Diploma (QCF or RQF) in Sport and Exercise Science or Applied Science with Distinctions in specified science units. See online for a list of specified units for your qualification. We do not accept other Sport BTEC Extended Diplomas for this course.

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/sport-exe-health](http://go.bath.ac.uk/sport-exe-health)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Sport Management and Coaching

CX63 | BSc (Hons) Three years

CX6H | BSc (Hons) Four years including placement year

### Develop a critical and practical understanding of sport management and development, coaching and physical education, and the sociology and psychology of sport.

This degree is designed for those who wish to examine the role of sport, health and physical activity within society.

You will have the opportunity to develop a fundamental understanding of sport management and development, coaching and physical education, and the sociology and psychology of sport, and an advanced understanding of at least one of these areas of study. You will consider the contributions sport makes to society and assess whether and how sport can be improved. You will study against the backdrop of the University's world-class multi-sport training environment.

Your first year will introduce you to the main areas of study on the course. In year two and final year, you will have the opportunity to specialise your studies and to develop and apply research skills. Key employability skills such as time management, communication, self-confidence, and data analysis will be emphasised throughout the course.

Students in the past have gone on to careers in fields such as sport performance, sport marketing, community sport, and teaching, among others. Graduates have also pursued further study in a number of different areas.

### Content

#### Year 1

Units covering topics such as the sociology and psychology of sport, sport management and development, and coaching and physical education.

#### Year 2

Units allowing specialised study on topics such as sport psychology, sport media, sport marketing, health and physical activity, coaching, physical education, and research methods.

#### Placement (optional)

#### Final year

- Dissertation research
- Units covering advanced issues in topics such as the sociology and psychology of sport, sport management and development, coaching and physical education

### Placements

The placement year will give you valuable practical experience; it is an excellent opportunity to develop knowledge of different careers. A placement enables you to leave university with a strong CV, setting you apart from other graduates entering the job market. Placements can involve work in areas such as sport marketing and management, community sport development, teaching, coaching, and performance analysis, among others.

Our Department for Health has established links and partnerships with many organisations. Our students have recently taken placements at: British Olympic Association, Disability Sport Wales, ESPN, Harbour Sport (New Zealand), Let Me Play, London Organising Committee of the Olympic and Paralympic Games, Millfield School, Rostrevor College (Australia), and Under Armour.

Placement opportunities can't be guaranteed but you will receive tailored support from our specialist team to help you secure a placement.

### Assessment methods

- Coursework
- Dissertation
- Essay
- Oral assessment
- Portfolio
- Practical work
- Seminar
- Written examination
- Other

### Delivery methods

- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend approximately 20% of your time in a lecture, seminar or practical/lab setting and 80% of your time in independent study. Your course options will determine your future contact hours.

### Extra costs

The following course-related costs are not included in your fees: Disclosure and Barring Service (DBS) Check. You may be required to pay for a DBS check depending on the nature of the placement(s) you undertake.

### Typical offer: AAB or A\*BB or A\*AC

### Entry requirements

#### GCSE

4 or C in Mathematics and 4 or C in English (or equivalent from category C – see page 30).

#### A level

AAB or A\*BB or A\*AC in three A levels.

#### International Baccalaureate Diploma

36 points and 6, 6, 5 in three Higher Level subjects.

#### BTEC

D\*DD in a Level 3 Extended Diploma (QCF or RQF).

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/sport-exe-health](http://go.bath.ac.uk/sport-exe-health)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

## Sport (Sports Performance)

C601 | FdSc Two years

### Develop your athletic expertise and combine your training with academic study of elite sports performance.

This two-year foundation degree enables you to integrate both high-performance sports and academic study. It will appeal if you're performing at a high standard in your chosen sport.

You will develop your skills and knowledge in training and competition. Topics range from your own physical conditioning and sports nutrition to performance analysis and psychology.

At the start of the course, you will explore fundamental sport, coaching and research topics. You'll gain a wide range of study skills to prepare you for a variety of sport-related careers.

You will develop academic skills to enable you to further your studies, which will explore the key components underpinning sports performance and athletic success.

On completion of the foundation degree at the required academic standard, you may progress to the one-year BSc (Hons) Sport (Sports Performance) (Work-based Learning) course. This builds on the expertise acquired from earlier study, enabling you to develop the analytical and reflective skills valued by employers.

### Taking part in our sports

We have various priority sports in which a Head Coach is employed. The University of Bath is home to many Dual Career athletes who show exceptional achievement and potential in both their academic and sporting endeavours. Acceptance of a place on this foundation degree does not guarantee you a place within our priority sports.

If you take part in a non-priority sport, then you may consider joining any of the existing Students' Union sports clubs.

### Units

#### Year 1

- Research methods for sports performance
- Human structure and function
- Introduction to sports coaching
- Introduction to sports performance
- Nutrition for sports performance
- Sports development
- Strength and conditioning
- Work based learning 1

#### Year 2

- Work based learning 2
- Contemporary issues in sports performance
- Planning for the athlete in context
- Sport and exercise psychology
- Performance analysis
- Talent identification principles and practice

#### Year 3 (BSc route)

- Dissertation
- Research methods
- Managing the performance athlete 1
- Sports performance research seminar
- Managing the performance athlete 2

### Assessment methods

- Attendance
- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Practical work
- Seminar
- Written examination
- Other

### Delivery methods

- Laboratory sessions
- Lectures
- Practical sessions
- Seminars
- Tutorials
- Workshops

### Contact time with staff\*

In your first year, you should expect to spend 17% of your time in a lecture, seminar or practical/lab setting and 83% of the time in independent study. Your unit option choices will determine your future contact hours.

### Extra costs

The following course-related costs are not included in your fees: Disclosure and Barring Service (DBS) Check £50. You may be required to pay for a DBS check depending on any week long work placements you undertake.

### Typical offer: CCC

### Entry requirements

#### GCSE

4 or C in Mathematics and 4 or C in English (or equivalent from category D – see page 30).

#### A level

CCC in three A levels.

#### BTEC

MMM in a Level 3 Extended Diploma (QCF or RQF).

If you are a student who requires a Tier 4 visa you will not be able to join this course.

### Further information and contact details

\*For more information about entry requirements, units and contact hours visit: [go.bath.ac.uk/sport-exe-health](http://go.bath.ac.uk/sport-exe-health)  
Admissions and Outreach: [admissions@bath.ac.uk](mailto:admissions@bath.ac.uk) +44 (0)1225 383019

# Visit us

## Travel to the University



### By car

M4 to Junction 18 and A46 to Bath. Follow signs for The American Museum and University.

The campus is located in Claverton Down, on the east side of Bath.



### Parking on campus

Visitor parking pay & display spaces are accessed via the main entrance on Claverton Down Road, turning onto Norwood Avenue. Spaces are limited. Please check the website for transport advice for Open Days.



### By coach

Frequent National Express and Megabus services operate from London Victoria and London Heathrow Airport to Bath.



### By bus

There are a number of frequent bus services available. The U1, U2, 20A and 20C services all start and terminate on campus and travel through the city centre.



### By air

The nearest airport is Bristol International Airport. There are also regular connections by train or coach from London Heathrow Airport.



### By train

Bath Spa station is on the main line between Bristol and London Paddington. It can be reached from the North and South via Bristol Temple Meads.

Journey times:

- To London - 1 hour 20 minutes
- To Birmingham - 1 hour 40 minutes
- To Cardiff - 1 hour 10 minutes
- To Manchester - 3 hours 20 minutes
- To Southampton - 1 hour 20 minutes
- To Exeter - 1 hour 20 minutes





Find out what our students think:  
[go.bath.ac.uk/blog-open-days](http://go.bath.ac.uk/blog-open-days)

### Bath Blogs

#### Open Days

Our main University Open Days offer you the opportunity to explore our campus, talk to staff and students and get a real feel for what it would be like to live and study here at Bath.

Friday 22 June 2018

Saturday 23 June 2018

Saturday 15 September 2018

[go.bath.ac.uk/visit-opensdays](http://go.bath.ac.uk/visit-opensdays)

#### Campus Tours

If you can't make it to one of our Open Days, we run regular small group campus tours throughout the year. Led by our current students, these tours will give you an insight into being a student here, as well as showing you around the main facilities on campus.

[go.bath.ac.uk/cannot-make-opensday](http://go.bath.ac.uk/cannot-make-opensday)

#### Residential Uni Tasters

Want to experience life as a Bath student? These subject-specific residential events offer you the opportunity to explore our friendly campus and get a sense of what it's like to live and study here. You'll meet current students and staff, and get lots of information and advice.

[go.bath.ac.uk/res-uni-taster](http://go.bath.ac.uk/res-uni-taster)

#### Individual Visits

We have an open campus policy, which means you are very welcome to visit and take a look around at a time that suits you. Visit our webpage for tips on how to make the most of your visit:

[go.bath.ac.uk/cannot-make-opensday](http://go.bath.ac.uk/cannot-make-opensday)



#### Contact Us

[admissions@bath.ac.uk](mailto:admissions@bath.ac.uk)  
 +44 (0)1225 383019

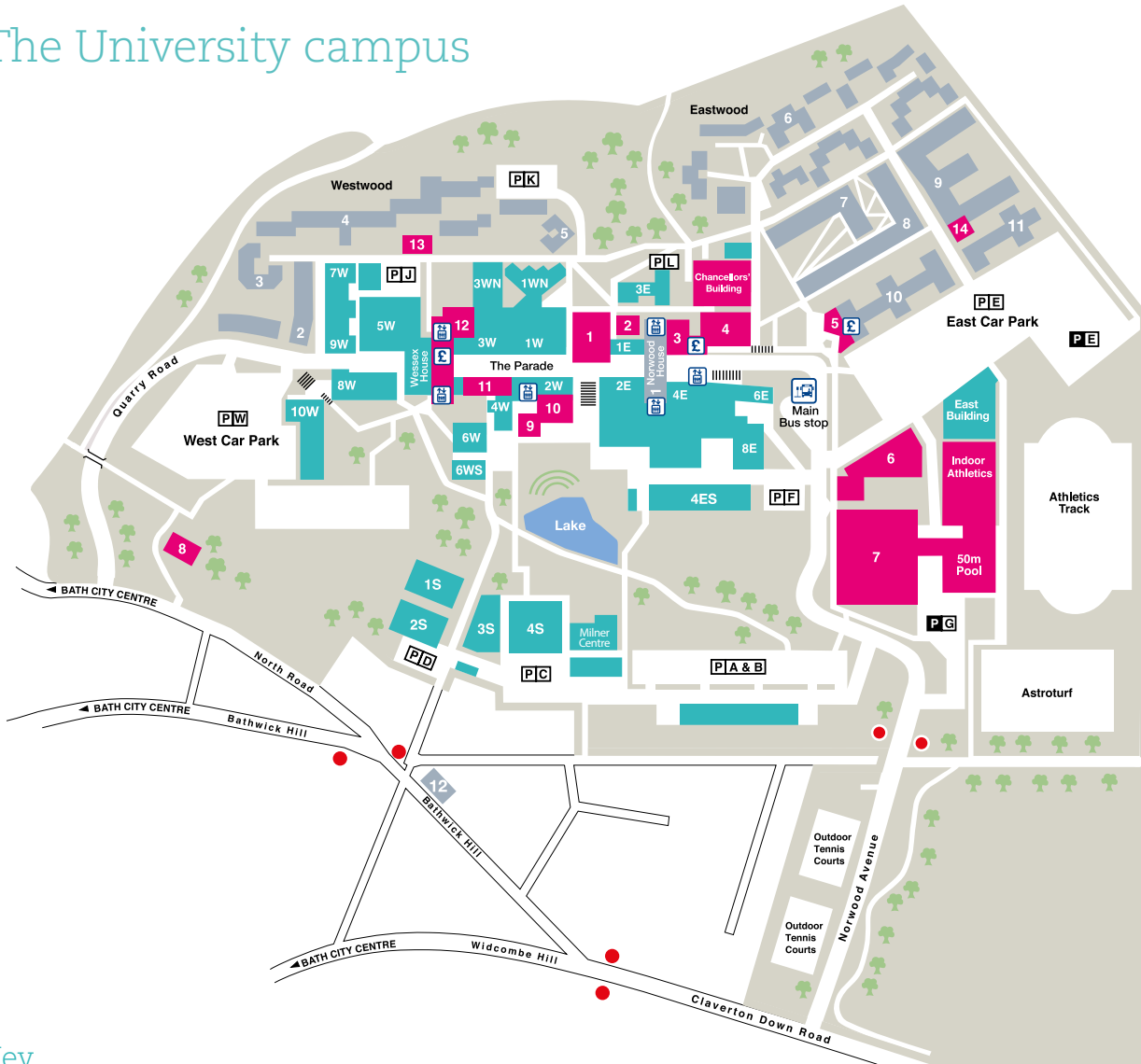
University of Bath  
 Claverton Down  
 Bath  
 BA2 7AY  
 United Kingdom



"Attending the Open Day for Bath showed me that it was the one - as it was the only university I felt at home. Being on campus, I remember thinking how I could picture myself there for the next few years and it just felt right."

Eman Gouyez, BSc Maths and Physics with Placement

# The University campus



## Key

### Wessex House 6W

Admissions  
International Relations Office

### Amenities

- 1 Library, Security
- 2 Chaplaincy Centre
- 3 Students' Union
- 4 Sports Hall – Founders' Hall
- 5 Lime Tree Café
- 6 The Edge
- 7 Sports Training Village
- 8 Medical/Dental Centre
- 9 University Hall
- 10 Fountain Canteen, Parade Bar, Claverton Rooms Restaurant
- 11 Student Services Centre and 4W Café
- 12 Post Office, banks and shops
- 13 West Accommodation Centre
- 14 East Accommodation Centre

### Accommodation

- 1 Norwood House
- 2 Polden Corner
- 3 Polden Court
- 4 Westwood
- 5 Brendon Court
- 6 Eastwood
- 7 Marlborough Court
- 8 Solsbury Court
- 9 Woodland Court
- 10 & 11 The Quads
- 12 Osborne House



Car Parks - public



Car Parks - permit holders only



Bus stops



Lifts



Cashpoints

### Departments

- 4ES, 6E Architecture and Civil Engineering
- 4S Biology and Biochemistry
- 9W Chemical Engineering
- 1S Chemistry
- 1W Computer Science
- 3E Economics
- 1WN Education
- 2E Electronic and Electrical Engineering
- 1W Health
- 8W School of Management
- 4W Mathematical Sciences
- 4E Mechanical Engineering
- 4S Natural Sciences
- 5W Pharmacy and Pharmacology
- 3W Physics
- 1WN Politics, Languages and International Studies
- 10W Psychology
- 3E Social and Policy Sciences

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Designed and edited by the Department of Marketing and Communications, University of Bath.

Cover illustration: Neil Webb

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# Open Days

Friday 22 June 2018

Saturday 23 June 2018

Saturday 15 September 2018

Further dates may be added, see:  
[go.bath.ac.uk/opensdays](http://go.bath.ac.uk/opensdays)

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UNIVERSITY OF  
**BATH**

[go.bath.ac.uk/study2019](http://go.bath.ac.uk/study2019)