

University
of **Bath**
Undergraduate **Prospectus**
2018



1st FOR UNIVERSITIES
STUDENTS WOULD
RECOMMEND
TO A FRIEND
THE
STUDENT EXPERIENCE SURVEY 2016



UNIVERSITY OF
BATH

Welcome to the University of Bath

The University of Bath is a world class university in a world heritage city – a nurturing environment for enterprising minds.

Our growing international reputation is built upon both the excellence and impact of our academic research, and the exceptional quality of the innovative educational and extra-curricular experience enjoyed by our students.

Our students are amongst the most satisfied in the UK and we are continuously improving our facilities both on campus and elsewhere.

Our courses are designed to provide both rigorous intellectual challenge and real-world relevance, giving our students the opportunity to study with researchers who are leaders in their field. Our outstanding placement scheme helps ensure that our highly sought-after graduates are well attuned to meet the evolving needs of employers.

Our vibrant campus – and location right on the edge of Bath – provide our diverse community of undergraduate and postgraduate students with superb sporting, social and cultural opportunities.

The University's motto is '*Generatim discite cultus*'. At its core, I believe this instructs us to achieve an understanding of our world and strive to use our knowledge to ensure a sustainable future.

Join our close-knit, high achieving community to gain the knowledge, skills and experience you'll need to thrive in a world of global networks.



Professor Dame Glynis Breakwell
President and Vice-Chancellor



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University of Bath
Claverton Down, Bath, BA2 7AY

go.bath.ac.uk/study2018

Tel: +44 (0)1225 388388 (Switchboard)
Tel: +44 (0)1225 383019 (Admissions Office)
Fax: +44 (0)1225 386366

Enquiry form:
go.bath.ac.uk/ask-admissions
UCAS code: B16


If you require the prospectus in large print, Braille or electronic format, please contact the Admissions Office.


TOP 10
UK UNIVERSITY
The Guardian 2017

5th
for Graduate
Employment
The Guardian 2017

 facebook.com/uniofbath

 twitter.com/uniofbath

 instagram.com/uniofbath

 **Find out what our students think.**
Look out for this box in the prospectus to see what they've been writing:
go.bath.ac.uk/student-bloggers

Bath Blogs

Why Bath?

Academic Excellence:

Learn from leaders in your field

We are a **Top 10 UK university** (*Guardian University Guide 2017*) with **87% of our academic research classed as world-leading** or internationally excellent by the most recent independent REF assessment. You will benefit from innovative research-led teaching and discover cutting-edge developments in your area of study.



“Reading textbooks that your lecturers have written and hearing about research they’re currently undertaking is impressive and inspiring! It’s reassuring to know that your lecturers really are the experts in their field and are at the forefront of advances your subject is making. Staff are always able to answer any questions or go into depth about a topic or area of interest, and there are even opportunities to participate in their current research.”

Laura Petitt,
BSc Psychology



“The placement opportunities at Bath are second to none. Having a placement team focused on your particular department, and in some cases specifically for your course, is hugely beneficial. There is so much support employment-wise, including the Careers Service, which offers advice, workshops, and one-to-one help as well as organising presentations and workshops from external companies.”

Mia Simon,
BSc Business Administration



Employment:

We’ll help you find your dream job

We are ranked in the **Top 5 for UK graduate prospects** (*Guardian University Guide 2017*). **86%** of employed Bath graduates move into top-level jobs, compared to 66% nationally, and enjoy an average starting salary £4,500 higher than the national average. Two-thirds of undergraduates gain **real-world experience** on our highly regarded placement and study abroad programmes, which include leading UK and global employers such as Microsoft, Airbus, GlaxoSmithKline, CERN and the United Nations.



Location:

A vibrant and inspiring city in which to live and study

Our **award-winning campus** is set amongst green fields on the edge of Bath, the only entire city in the UK with **World Heritage** status. We’ve invested **over £215 million** to create new learning facilities and new accommodation with more to come. Within easy reach you can find year-round cultural festivals, famous tourist attractions, big-name and independent shops, and a cosmopolitan choice of bars, pubs and restaurants.



“Bath itself is such a beautiful city so it is a pleasure to be able to study there. I had visited Bath once before and absolutely loved it, vowing to come back; then when I was looking at universities, I found I loved the University too! Bath is big enough to be interesting but it isn’t so big that it gets really confusing!”

Jemima Smallwood,
MPharmacy

Experience:

Pursue your own path
and stand out from the crowd

We are the university **most likely to be recommended by our students to their friends** and in the **Top 5 for all-round experience** (*THE Student Experience Survey 2016*). Our outstanding Sports Training Village with its Olympic legacy swimming pool and the quality of training and support on offer mean we are consistently ranked amongst the **best for sport**. Our new arts centre, The Edge, is a hub for performance and cultural events. You can learn a new skill, gain valuable experience, volunteer or get involved with a choice of over 200 student-led groups, clubs and societies offered through our **award-winning Students' Union**.



"The University of Bath provides so many opportunities for broadening your horizons. I'm in the Surfing, Art and Amnesty International societies as well as in a group training to run the Prague Marathon for Breast Cancer Now. Not only are all these activities fun and a great opportunity to meet a vast variety of interesting people, but they will also look great on my CV when I begin applying for jobs."

Karolina Wozniak,
BSc Psychology



"In my first-year accommodation, I'm living with people from Italy, Belgium, Poland and Hong Kong. Having such a diverse range of cultures mixing in one place has been great. I've learned how to cook Chinese food properly and our Italian flatmate made us all pizza last weekend! I'm considering the possibility of having a placement or study year abroad in my third year. I'd like to live in New Zealand."

Robert Brett,
MPhys Physics

Global:

Experience the whole world

One third of our students come to study with us from outside the UK, representing over 100 different nationalities. Our teaching and research links around the world provide exciting opportunities for students to study abroad, including partners in the USA, Argentina, Hong Kong, New Zealand and across the EU. As a Bath graduate, you will join a diverse, dynamic, globally-connected 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.

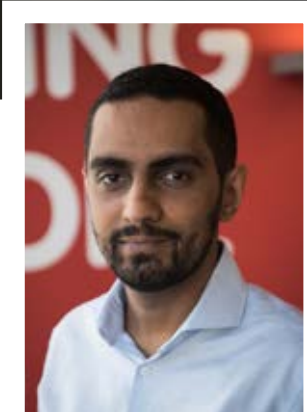
Whether you are looking for advice about writing your personal statement or making the most of open days, want an insight into what it's like to be a student at Bath, or you are worried about making new friends, budgeting or surviving Freshers Week, find out what our students have to say:

go.bath.ac.uk/student-bloggers

Bath Blogs

Placements and study abroad

Work placements and study abroad experiences are an excellent way to enhance your learning and employability. At Bath, two thirds of our students undertake one or more of these valuable opportunities during their time here.



“One of the key strengths I’ve found for Bath students is that they’re well rounded; they’re not just academic, they know the real world, which is really important”

**Bhavik Davda,
Head of CRM & Insight,
Superdrug**

Professional placements

Bath graduates are highly valued and sought after by leading graduate employers and we are focused on getting you ready for a competitive work environment. Going on placement is an excellent way of enhancing your employment prospects and applying what you have learnt during your course in a practical environment.

Our students work in highly innovative and dynamic companies in industries across all sectors. Recently they have been on placement with leading UK and global employers such as Cancer Research UK, Microsoft, the United Nations, L’Oreal, Dyson, and Goldman Sachs.

Many of our students find paid placements with a salary in the region of £15-25K p.a. but you can choose to do an unpaid placement in hospitals, charities and academic institutions. If you fancy doing something a bit different then the University of Bath Alumni Fund may be able to provide a grant to support you. In the past, the fund has supported work opportunities such as a wildlife conservation project in Nepal and an organisation providing microfinance to Nigerian farmers.

“During my placement year I was lucky enough to be working in a neurobiology laboratory in Perth, Western Australia. The work was all practically based and allowed me to apply knowledge I had already learnt in the first two years of my degree. I cannot emphasise enough how rewarding the experience was; not only from an academic perspective, but also in terms of the vital skills and confidence I gained from living abroad.”

Charlotte Bailey, BSc Biology

Find out more about our students’ experiences on placement:

go.bath.ac.uk/management-experiences

go.bath.ac.uk/blog-hss-placements



“It has been really exciting working in Westminster, just minutes away from Parliament, and seeing how economic theories translate to policy options in government.

I have gained confidence in applying the skills I have learnt at university to a professional working environment.”

Rebecca Thompson, BSc Economics Placement at Department for Work and Pensions



Finding and supporting your placement

Our faculties have staff dedicated to maintaining links with employers and finding suitable placements for students. Whilst obtaining a placement is ultimately your responsibility, our staff will provide you with lots of information, advice and guidance: from finding the right placement for you, through the recruitment process, and into the role. They will also be available to provide support whilst you are on placement.



Study abroad

Choosing to live, study and work abroad during your degree is a fantastic way to expand your horizons.

Our European exchanges take place under the well-established Erasmus+ Programme of the European Commission – but, if you want to go further afield, then we also have exchange agreements with partner institutions in Australia, South Africa, Argentina, Hong Kong, Canada, Mexico, New Zealand and the USA among others. Study abroad opportunities are competitive and vary between departments: get in contact with your department for more information.

go.bath.ac.uk/study-abroad

Fees and funding

Please see pages 22-23 for information about the tuition fees for placements and study abroad opportunities. UK home students should refer to their relevant student loans awarding agency for details about funding for placements or study year abroad.



“A study year abroad at the National University of Singapore was an amazing opportunity to experience a different culture and education system. I am now able to say that I’ve studied at one of the world’s top universities, lived abroad and gained friends for life. It’s put me in a good position for my final year at Bath and I believe it will also give me a competitive edge when applying for jobs in the future. I fully recommend it!”

Ella Reed, MChem in Chemistry



Watch our student videos about their opportunity to study abroad:

go.bath.ac.uk/management-study-abroad

go.bath.ac.uk/polis-study-abroad



Find out what our students think:
go.bath.ac.uk/blog-placements

Bath Blogs

Employability

We are well-known for the success of our graduates in the employment market, and will provide a wide range of support as you launch your career.

Careers

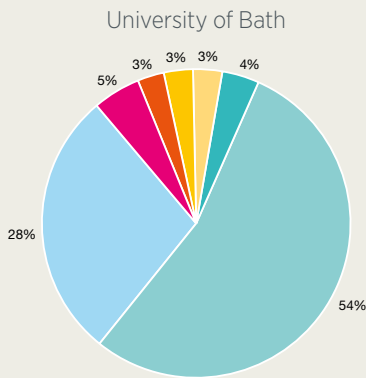
86% of our UK first degree full-time graduates are in jobs in one of the top three classes (management, professional and associate professional/technical). The mean starting salary for our graduates is £26,000. That is £4,500 higher than the equivalent for all UK HE providers.*

We will help develop your skills and the tools you need to succeed in your future career. We provide help with career planning and job search skills such as interviews, applications, writing your CV and aptitude testing. The Careers Service also arranges up to 400 employer recruitment visits to the University each year, including career fairs in the autumn and summer so there are plenty of opportunities for you to network.

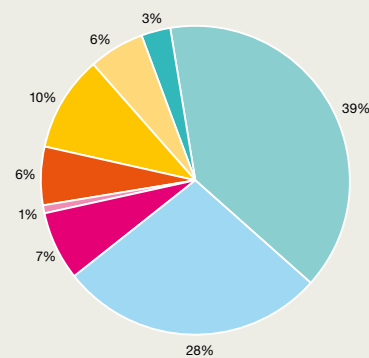
by accessing our comprehensive range of language learning materials including TV channels, films and online resources. You will also be able to practise your language skills informally, by meeting with international students in our Language Exchange programme or by coming along to our regular Language Café.

In short, whether you are a complete beginner or want to work on a language you already know, there is an extensive range of opportunities available for you.

Job level



All UK Higher Education Providers



Professional or Managerial Jobs

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

Not Professional or Managerial Jobs

- Administrative and secretarial occupations
- Skilled trades
- Caring, leisure and other service occupations
- Sales and customer service occupations
- Elementary occupations and process, plant and machine operatives

go.bath.ac.uk/careers-advice

Help with your CV

We want to make sure that you stand out from the crowd. We will work with you on your CV content, structure and extra-curricular activities to make sure that you are in the best position when applying for that placement or job.

Make the Bath Connection

We aim to help you gain a competitive edge whatever your career aspirations. That's why the University now offers Bath Connection: an online system which connects students with the wealth of expertise within our graduate network.

Through Bath Connection you can select from the profiles of hundreds of our graduates around the world and directly request support or information about your chosen sector or career. From asking a quick question about working for a particular company or organisation, to requesting ongoing input, you will learn from the experiences of someone who has 'been there already', is proud of their connection with the University and wants to help you succeed too.

go.bath.ac.uk/alumni-bath-connection

Learn another language

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. Learning a language will increase your employability, help to make you more inter-culturally aware and enable you to acquire a useful lifelong skill.

Play an active part in our international community by attending weekly language classes, taught by qualified language teachers, where you will meet other students from all years of study and disciplines. Alternatively, you may prefer to learn at your own pace

go.bath.ac.uk/skills

The Bath Award

The Bath Award is a way of showcasing all you have achieved at University and enables you to enhance your employability. Extra-curricular activities, work experience, volunteering and additional learning is all being recognised and valued more by employers. Your work with clubs, societies, fundraising and other activities will develop your skills and the Award will even appear on your degree transcript.

BathStudent.com/Bathaward



Find out what our students think:
go.bath.ac.uk/blog-employability

Bath Blogs

* Source: Destinations of Leavers from Higher Education Survey 2014/15; employed UK domiciled full-time first degree graduates.

Our campus

Bath is a campus university occupying a beautiful, green and leafy hilltop site overlooking the city of Bath.



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

Ruth Hanson, BSc Psychology

Our students enjoy excellent facilities for learning, accommodation and leisure on campus and we are continually improving current spaces and investing in new buildings. We are 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 24 hour, 365 day a year **Library**; world-class **Sports Training Village**; **The Edge**, our home for visual arts, theatre, dance and music; and our award-winning **Students' Union**, we offer the following facilities:

- Supermarkets
- Medical Centre
- Dental Centre
- Laundry
- Post Office
- Computer shop
- Sports shop
- Banks
- Restaurants, cafes 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. As well as enjoying the renowned shops, museums, bars and galleries for which Bath is famous, students can also make use of our brand new city-based Learning Commons, with access to key University services.

“One of my favourite things to do is take friends through the back of the University to Sham Castle. At night, the castle is lit up by flood lights and as we sit upon the bench marked with Jane Austen's words, staring at the Bath skyline, the atmosphere is nothing short of magical.”

Karolina Wozniak, BSc Psychology



You can find out more about our outstanding facilities and student experience over the next few pages.



Find out what our students think:
go.bath.ac.uk/blog-campus

Bath Blogs



Accommodation

Become part of a great student community that will make you feel like the University of Bath is your home away from home, whether you're living on campus or in the heart of the city.



Accommodation guarantee

All full-time first year undergraduate students are guaranteed accommodation for their first year of study as long as they have selected Bath as their firm choice and have accepted and applied for accommodation via the online system before the deadline.

Accommodation options

Here at Bath we have over 4,000 bedrooms, three-quarters of which are located on campus. We offer a broad range of room types to suit all budgets; half of our rooms are en suite. Accommodation is predominately in self-catered flats with student bedrooms (5-18 single study) arranged around a communal kitchen. Groups are usually

mixed, but you can choose all-male or all-female options if you feel strongly. All accommodation prices include utility bills, internet and Wi-Fi, connection to network, and core possessions insurance.

City accommodation

John Wood Building, John Wood Court and Carpenter House are the University's undergraduate accommodation located in the heart of the city centre, just a few minutes' walk 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.

Carpenter House is a self-catered accommodation complex that consists of shared flats for seven to ten students. John Wood Building contains self-catered flats, whilst just across the road, John Wood Court consists of self-catered single, shared and en suite rooms, as well as five double flats. Both residences have launderettes, secure bicycle storage and can only be accessed with secure swipe cards.

Campus accommodation

Our accommodation on the Claverton Down campus is just a few minutes' walk away from the library and Students' Union. Choose from:

- **Brendon Court** – catered accommodation with communal kitchenettes, social spaces and bathrooms.
- **Eastwood** – self-catered accommodation with 11-13 students sharing each house.
- **Marlborough Court and Solsbury Court** – self-catered flats with five-seven bedrooms each.
- **Norwood House** – a multi-storey block of self-catered flats right in the centre of campus.
- **Osborne House** – a designated quiet, self-catered residence, with rooms for mature students.
- **Polden Court** – catered flats for groups of five – 24 students each.
- **The Quads** – our newest accommodation, with part-catered flats for eight – ten people.
- **Westwood** – self-catered flats with shared kitchens and bathrooms for up to 22 students.
- **Woodland Court** – self-catered, single or twin en suite rooms with communal kitchens.



"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

Residential Life and Wellbeing Service

Our team of professional staff and postgraduate student volunteers work within University accommodation to create a welcoming and supportive residential community that supports you to succeed in your studies and have a great time.

Most of our students are new to Bath and we are here to help you settle in and make the most of your time at university. There is also the 24/7 on-campus Security Office if you have any problems.

go.bath.ac.uk/services-wellbeing | Email: residential-life@bath.ac.uk



Catered options

Catered accommodation is available at Polden Court and Brendon Court and part-catered at The Quads using Eat and Drink credit. You can spend the credit on anything for sale in our bars and eateries, except alcohol.

Room facilities

All rooms have Wi-Fi, and a wired connection to the campus network and internet.

Go online for 360 degree tours of the rooms and buildings: go.bath.ac.uk/virtual-tour

Check out go.bath.ac.uk/student-accommodation for full information on what we provide and what you need to bring.

How and when to apply

Once you have selected Bath as your firm choice you can apply for accommodation from spring in your year of entry. The exact date on which you can apply will appear at go.bath.ac.uk/student-accommodation in March – we will email offer holders to let them know this.

Later entrants may be housed in our city campus complexes and those who apply after the deadline cannot be guaranteed University accommodation but can apply to be put on the waiting list. If we cannot provide University accommodation to those on the waiting list then we will provide help to find private sector housing.

If you want to look for private sector accommodation then you can do so through www.bathstudentpad.co.uk. You can expect to pay anything between £80-£120 per week for a room in a shared house, plus utility bills.



Price guide

Prices are per week and include utilities, data connection and core possessions insurance cover. Prices below are from 2016-2017 and are for guidance only (subject to change).

Standard shared

£65 - £70 per week
£2,470 - £2,660 per year (38 weeks contract)
Campus life
Eastwood
City life
John Wood Building

Standard

£98 per week
£3,528 per year (36 weeks contract)
£98 - £117 per week
£3,724 - £4,446 per year (38 weeks contract)
Campus life
Eastwood, Osborne House
City life
John Wood Court, Carpenter House

Standard

£122 per week
£4,636 per year (38 week contract)
Campus life
Westwood, Norwood

Catered standard

£170 per week.
£6,210 per year (including £50 per week catering charge for 33 weeks of 38 contract only)
Campus life
Brendon Court

Catered en suite

£189 - £204 per week
£7,502 per year (including £50 per week catering charge for 33 weeks of 38 contract only)
Campus life
Polden Court

Part-catered en suite

£178 per week. £6,639 per year
(including £25 per week catering charge for 33 weeks of 38 contract only)
Campus life
The Quads

En suite

£153 per week
£5,814 per year (38 week contract)
Campus life
Marlborough Court and Solsbury Court

En suite

£150 per week - £158 per week
£5,700 - £6,004 (38 week contract)
Campus life
Woodland Court
City life
John Wood Building



Find out what our students think:
go.bath.ac.uk/blog-accommodation

Bath Blogs



Your Students' Union

The University of Bath is consistently rated as having one of the top Students' Unions in the country in the National Student Survey. It is one of very few Unions to achieve a Gold SUEI Award – a mark of quality to show that it gives students the best possible experience.

Welcome to University of Bath Students' Union

The Students' Union (SU) is a registered charity run by students, for students. It makes the experience at Bath the best it can.



"At the Students' Union, we provide you with the best opportunities and support to help you make the most of your time as a student at Bath. There are over 200 student-led groups for you to choose from. From sports to societies, media to enterprise, volunteering to diversity and support groups, there's something for everyone! Through getting involved, you'll create friendships, develop skills and gain experiences that you will benefit from during your studies and for years to come."

Lucy Woodcock, Students' Union President 2016-17



Things to do....

Sport*

The Students' Union (SU) offers a wide range of sports with 48 student-led clubs that are able to use our world-class sports facilities. There are many ways to take part, ranging from recreational fun to competition at the highest level of the British Universities and College Sport leagues.

Societies and media*

There are 85 societies and three media groups, offering you the opportunity to discover new passions or develop your skills. Societies cover everything from curry appreciation, to breakdancing and student enterprise.

Volunteering

There are hundreds of local and international volunteering and fundraising opportunities that will suit everyone's interests.

Entertainment and events*

The SU is home to the largest nightclub in Bath, offering a warm and friendly environment at a variety of weekly events. We also run the largest and most memorable events of the student year, including Fresher's Week and the Summer Ball.



There when you need it...

Advice and support

The SU also provides confidential and independent support when you need it. This includes advice on housing, personal issues, health and academic appeals. Every first year has access to a peer mentor trained by the SU, helping you navigate your way through University life.

Support groups

There are many other student groups that support you in meeting like-minded people and representing your views. These include the International Students' Association and diversity and support groups including LGBT+.



Achieve more...

Development and employability

The SU offers training and other opportunities to develop your skills and experience that will be valued by employers. This includes support with finding part time work through Joblink and formal accreditation through the Bath Award.



Get your voice heard...

Student Voice

The SU has a national reputation for the ways we get your voice heard in the University. Students are able to take on positions that allow them to represent their peers on a range of issues from those affecting their academic life right through to national campaigns.



* A fee may be charged for membership to some clubs and societies, and for entry to events. Please see our webpages for further details.

find out more: BathStudent.com

Sports

We offer a fantastic range of sports here at Bath 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.



The Department of Sports Development and Recreation is responsible for:

- offering recreational opportunities for all members of the University to enjoy sport and exercise, regardless of ability
- providing instruction and tuition in a range of activities
- providing one of the leading high performance environments in Europe, hosting around 250 international-level athletes and national and regional squads across 10 sports.

Students have access to a wide range of sport by activating their free sports pass.* There are also dedicated facility times for students, a student recreational sport programme, and personal development opportunities through coaching, volunteer and leadership schemes as well as through Team Bath Training and Development courses.

go.bath.ac.uk/sports

The Department employs a team of professional coaches, who work with a wide range of performers up to Olympic level. It enjoys a close relationship with Students' Union Sport, which has over 4,000 members and runs 48 student clubs.



Find out what our students think:
go.bath.ac.uk/blog-sport

Bath Blogs

Facilities*

The University has an extensive range of sports and recreation facilities:

- **The Sports Training Village** – extensively-refurbished world-class gym, 50m London 2012 legacy swimming pool, floodlit eight-lane athletics track, indoor athletics hall and 132m sprint straight, multi-purpose sports hall including 12 badminton courts, eight-court indoor tennis hall, four acrylic, four artificial clay and two clay outdoor tennis courts, the UK's only outdoor bobsleigh/skeleton push-track, water-based hockey pitch, one all-weather pitch, many football and rugby pitches, 300 sq m judo dojo, fencing salle including eight pistes and 16-station air pistol range.
- **The Founders Complex** – a multi-purpose hall with eight badminton courts and four squash courts.
- **The Sulis Sports Club** – two cricket squares and nets, and several rugby and football pitches.



“One of the main attractions about the University of Bath as a student-athlete is it's all on one campus. I can go from training in the morning straight

to lectures or the library and start working towards my degree, then head back to my training. I would really recommend it to all student-athletes.”

Joe Choong, BSc Mathematics
Ivor Powell Sporting Scholar
Represented Team GB in modern pentathlon at the Rio 2016 Olympic Games



What is Team Bath?

Team Bath is the brand name for the family of sport at the University of Bath. It is an all-encompassing, inclusive brand ranging from young children, who participate in our Team Bath Tribe coaching sessions, through to performance athletes like Olympic and Paralympic medallists Heather Stanning, Amy Williams, Siobhan-Marie O'Connor, Samantha Murray, Paul Blake and Piers Gilliver who have trained or train here.

Team Bath allows the University to promote its support of both student and non-student sport under the same umbrella and enables links to be built between community, student and elite sporting activities.

www.teambath.com



Studying sport

Bath has an extensive range of opportunities at both foundation and undergraduate degree level, offering courses in Sport and Exercise Science (p115), Sports Performance (page 117) Sport and Social Sciences (page 116), and Health and Exercise Science (page 114). Additionally, a range of vocational fitness qualifications are available through Team Bath Training and Development.

Further details can be accessed through www.teambath.com

* 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.



“Being involved in an institution with great facilities and supportive lecturers has really helped with my career as an athlete. At the University of Bath I am able to access the gym and training courts, as well as the library and the other academic resources I need in order to train as well as complete my degree.”

Paige Reed, FD Sports Performance
Santander Sporting Scholar
Netballer for Team Bath and England U21

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 partnership with the Department of Development & Alumni Relations. 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:

Email: athletesupport@bath.ac.uk

Tel: +44 (0) 1225 383444



Students' Union sports*

Students' Union Sport offers a wide variety of sport from competitive representation on behalf of the University, inter-halls and inter-departmental competition, 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
- **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
 - Sub Aqua
 - Surf
 - Water Polo

Arts

The Edge brings new, exciting and thought-provoking dance, music, theatre and visual arts right to your doorstep.

The Edge is the hub of creative life on campus. Here you'll find many opportunities to participate in arts and creative practice using top-class facilities. Classes are available in drawing, painting, dancing and music production; instruments are available to loan and receive tuition in; rooms are available for rehearsal*. Plus there's a world-class public programme of arts presentations to experience including exhibitions and performance*. You can also join the Edge Arts Community and become more involved behind the scenes. Whatever your creative interests, The Edge is ready to assist you in realising them.



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

Isobel Tenison-Collins, BSc Natural Sciences with Industrial Placement

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, many of whom make use of the fantastic facilities.

www.theedgearts.co.uk

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



Brand new state-of-the-art facilities including soundproof music practise 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

Bath Blogs

International students

We have a lively international community and welcome the cultural diversity our international students bring to campus life. Over 100 nationalities are represented among our 3,500 international students.

This may be your first time living and studying in the UK. It will be an exciting time, but you may find that you need support along the way to ensure that your academic, social and cultural transition to university is smooth and enjoyable. Student Services is here to provide that support when you need it.

Before you leave

We will communicate with you regularly, provide you with essential information to help plan for your journey to Bath, and advise you about life in the UK. You will need to submit your online application for accommodation which can be done once you have accepted an offer to study at the University (see p8-9).

Tier 4 visas

Many international students will require a Tier 4 visa to study in the UK. Our Student Immigration Service is here to advise on your Tier 4 visa application and to support you with your visa conditions when you are here.

It is important to seek advice early and prepare well for your visa application – please see our contact details below. When you get here, you can also speak to an adviser in person at one of our daily drop-in advice sessions in the Student Services Centre.

go.bath.ac.uk/visa

Email: student-immigration-advice@bath.ac.uk

When you arrive

We can pick you up by bus from London Heathrow Airport and settle you into University accommodation. You can live, eat, socialise, shop, bank and access medical facilities all on campus. We also organise a welcome programme of events just for you including information sessions, tours of the campus and the city, and social events, which are a great way to get to know people.

Get involved

We encourage all of our students to get involved with activities outside of their lectures such as joining a society or becoming a community volunteer. It is a great way to meet new friends, develop your skills and learn about different cultures, whilst improving your



communication skills and enhancing your employability for the global careers market.

go.bath.ac.uk/international-students

Email: international-office@bath.ac.uk

Improving your English

If English is not your first language and you need to improve your language skills to reach the English language entry requirements of your degree course, then you may be eligible to be considered for one of our intensive July and August Pre-session courses. These are designed to help international students prepare for study on undergraduate and postgraduate courses and adjust more quickly to living and studying in the UK.

Delivered by an experienced, qualified team of teachers, these five and ten-week courses will help you to:

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

As part of your Pre-session course, you can also participate in a range of social and cultural activities to help you to make friends, become more familiar with Bath and UK culture, and improve your conversational English.

You can find further information about Pre-session courses, including dates and fees, here: go.bath.ac.uk/pre-session-courses

Skills development

Once you start your degree programme, to help you get the best out of your studies, you will have access to a comprehensive programme of skills development sessions designed to complement what you learn on your course. This programme is delivered by specialists in our Skills Centre, Careers Service and Library, or in partnership with the Students' Union. You can benefit from drop-in sessions, one-to-one tutorials, classes, workshops and online materials in a wide range of areas including academic writing, information skills and literacy, mathematics and statistics, group, seminar and presentation skills.

You can find out more about our skills provision here: go.bath.ac.uk/skills



Find out what our students think: go.bath.ac.uk/blog-international

Bath Blogs



City of Bath



Bath is one of the most interesting, cosmopolitan and vibrant cities in the UK. Set in the rolling green hills of South West England, it's famous for its natural hot springs and Georgian architecture. In fact, Bath is so special the city has been designated a UNESCO World Heritage site. But Bath is not only special because of its history. It's a great place to live, learn and work.

History and culture

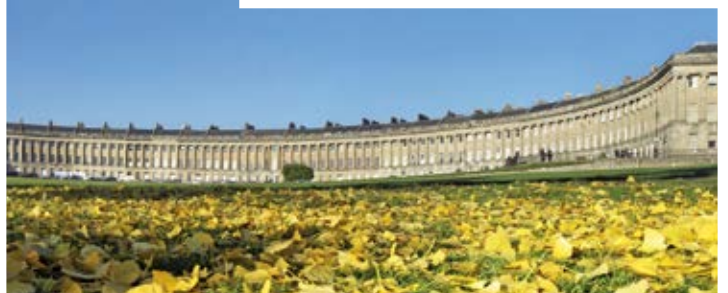
Bath's striking architecture, Roman Baths, medieval abbey, and world-famous sweeping crescents make it one of the most remarkable cities in Europe.

The best-known feature of the city is the natural hot water spring. The Roman Baths represent one of the most complete ancient sites in the world, much of it unchanged for 2000 years. At the Thermae Bath Spa, Britain's only natural thermal spa, students can enjoy the warm, mineral-rich waters. The open-air, rooftop pool boasts spectacular views across the skyline of Bath and is the perfect place to unwind.

Events throughout the year mean there's always something new to try – from the famous Bath Christmas Market and ice rink to the Literature Festival and Great Bath Feast. Bath Rugby Club also plays host to Premier League Rugby Union games throughout the season.

"Bath is such a beautiful place. Persuading friends to visit me at university has been easy. We get to spend time together walking around the historical grounds, visiting sites such as the famous Royal Crescent and the breathtaking Bath Abbey."

Karolina Wozniak, BSc Psychology



Shopping and nightlife

Bath is a lively city offering some of the best shopping and cultural attractions outside London. As well as many small and independent retailers, there is also the main shopping centre SouthGate. Bath also has three theatres, two cinemas, a huge variety of restaurants and cafes and a wide range of museums.

Students make up over a quarter of the city's population and Bath has a vibrant, student-friendly and student-focused nightlife including a wide variety of pubs, clubs and bars.

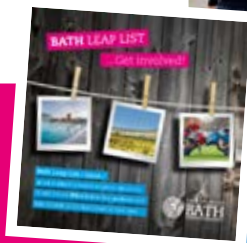
Beyond Bath

For those who want to explore a larger city, Bristol is about 15 minutes away by train, offering a similarly lively restaurant, bar and music scene. Bristol International Airport provides fast access to an ever-increasing number of destinations. London is approximately 90 minutes from Bath by train and there is a frequent service operating every 30 minutes.

For those seeking quieter retreats, Bath is surrounded by beautiful countryside. The famous Neolithic monument of Stonehenge, 'a wonder of the ancient world', is just 35 miles away and Glastonbury, home to the world-famous international music festival, is only 20 miles from the city.

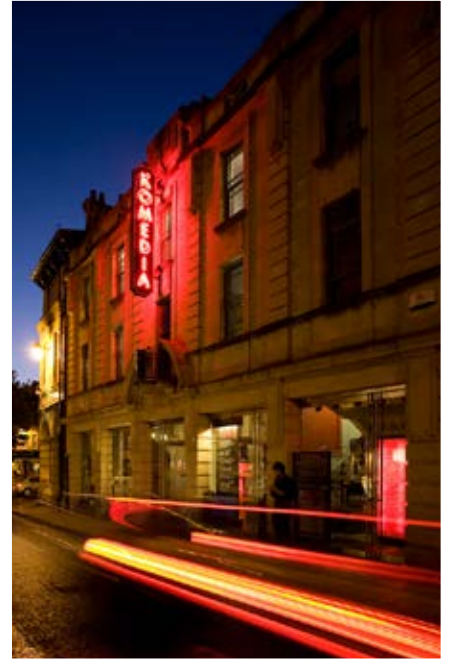
Discover More

The Bath Leap List collects our students' favourite ideas and activities for enjoying the city:
go.bath.ac.uk/leap-list



"Bath has an excellent range of shops - both chain high-street stores and many smaller boutiques and independent stores. Whatever your tastes you should be able to find something to see or do in Bath that suits you. Getting a feel for the town you are going to live in is as important as getting a feel for the university, so don't pass up the opportunity to sample what Bath has to offer!"

Hannah Jeffrey, BA Modern Languages and European Studies



Find out what our students think:
go.bath.ac.uk/blog-accommodation

Bath Blogs

Your learning

We attract the very best academic and support staff from across the globe. Our innovative and pioneering research feeds straight into your learning, which means that when you graduate you will be at the forefront of industry knowledge.

Your learning experience

We are continually working to enhance your learning experience so that you can fulfil your potential both at the University of Bath and in your future career.

You will be taught by academics who are experts in their field and your learning experience will be enriched by our internationally-engaged, research-active campus community. Academic and professional staff are constantly developing and updating their teaching approaches, and work with students and employers to make sure that what you learn is at the cutting edge of practice, both when you are studying and when you graduate.

To ensure that we continue to deliver excellence in education, we are developing teaching staff, professional staff, learning spaces and learning technology to meet the needs of our diverse student population and subject offering.



Some examples include:

- New and refurbished general teaching spaces equipped with state-of-the-art technology for teaching using a range of media, as well as high quality lecture recording technology, which allows access to your recorded lectures from anywhere – at home, on campus or on the move
- Custom designed independent study, group work and group design spaces. For example, brand new design studios where Architecture and Civil Engineering students work together on innovative low-energy building designs
- New Learning Commons - informal working environments for independent and group study - in the library, in our new city centre Virgil Building, and other locations on campus
- Interactive video conference sessions with aid workers and social activists from across the Middle East and Asia, which allow students the opportunity to engage with current global challenges

Our placement schemes offer you the chance to explore and gain real-world experience of working for a leading organisation in your subject area. You will be supported through the process of finding placements, working in a company and returning to your course at

the University. Our students who choose to do placements develop a deeper understanding of their subject area and generally improve academic performance and enhance their graduate opportunities. Further information on our placement schemes is on pages 4 and 5.





“One of the things that I found really unexpectedly helpful was being taught by leading researchers: everything I was learning was completely up to date. Despite being lead researchers, they actually make you feel like you are a peer and an equal, and so you end up shaping their experiences and their research thinking, as much as they are shaping yours.”

Gabriella Sherry, BSc Psychology with placement



Your independent study and learning

Develop your information skills and make best use of the extensive digital and physical information resources we have to support you with your learning. Our 24/7 state-of-the-art library, located in the heart of the campus, plays an essential part in your learning experience. It offers a wealth of printed and digital resources to support your studies together with high quality learning spaces to meet your needs, with our new Learning Commons, individual, group and quiet study spaces available. Our team of friendly, highly qualified staff will help you to develop your information skills and make best use of the extensive digital and physical information resources available.

go.bath.ac.uk/24-7-library

Within the library is our IT Help Desk, providing free and full IT support on all our computing services, including your own device. This support is available by telephone, email and face-to-face. Use one of our public access computers located across campus or your own device to log on to our free campus Wi-Fi, enabling you to study wherever it suits you. Make sure you also visit our not-for-profit Computer Shop, and benefit from a range of great discounts on IT hardware and software.

go.bath.ac.uk/comp-serv

We have a tailored online virtual learning environment that teaching staff use to give you access to notes, videos, papers, websites, reading lists and quizzes, as appropriate for your course.



Your skills development

To help you get the best out of your studies, we offer a comprehensive range of year-round skills development opportunities designed to complement your academic course. Free to all our students, you can benefit from drop-in sessions, one-to-one tutorials, classes, workshops and online materials in a wide range of areas including:

- Written and spoken communication
- Academic writing
- Information and library skills
- Maths and statistics
- Foreign and English language proficiency
- Group and seminar skills
- Critical thinking and reading
- Presentation skills
- Project management.

We know that developing your IT skills is a critical success factor in your studies so we also offer IT skills training courses in packages such as Microsoft Office and EndNote as well as specialist course training in packages for your course.

We take your future employability very seriously so offer a range of personal, professional and employability development opportunities. These include topics such as Managing your Money, Tools for Teamwork, Practical Guide to Leadership and Writing an Effective Job Application.

go.bath.ac.uk/skills



Find out what our students think:
go.bath.ac.uk/blog-study

Bath Blogs

Supporting you

Coming to university can be a big change. Though this is exciting, you may find that you need support along the way to ensure that your transition to university is smooth and enjoyable. Student Services is here to provide that support when you need it.



The Student Services Centre

This is the first point of contact for a range of welfare and practical issues. Located centrally on campus, it provides you with easy access to support services, and is a great place to start with a question.

go.bath.ac.uk/services-students

Email: studentservices@bath.ac.uk
Tel: +44 (0)1225 385538 (help desk)

Residential Life and Wellbeing Service

We know that living away from home for the first time can sometimes be challenging and we are here to smooth out the bumps along the way. Residential Tutors are postgraduate students who live in our accommodation and are on hand to assist with any concerns you may have. Our professionally trained Wellbeing Advisers work from 9am to 10pm daily* to assist you with any welfare related issues and work hard to create a safe and inclusive residential environment. We run a range of activities to help you make new friends and our wellbeing programmes will help you to develop the skills that you need to succeed.

go.bath.ac.uk/services-wellbeing

Money advice

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

Email: studentmoneyadvice@bath.ac.uk

Disability advice

The Disability Service provides advice and support for students with a disability or Specific Learning Difficulty, including Autism Spectrum Disorder, dyslexia, mental health difficulty, mobility and sensory impairment and long term health conditions.

We also provide advice and support for UK students seeking the Disabled Student's Allowance (DSA) which is a non means tested Government grant. We can guide you through the process and implement the recommended support such as alternative exam arrangements, support workers or equipment. The DSA is not available for EU and international students so please do make contact with us well in advance of starting at Bath so we can advise you. For further advice, including information in alternative formats, please contact us:

go.bath.ac.uk/services-disability
Email: disabilityadvice@bath.ac.uk

*Hours may vary during weekends and University vacation. Please visit our webpages for further information.

Our support is built around you, with a wide variety of support teams in place for you to speak to. As a Bath undergraduate you can seek advice from a Personal Tutor or one of the Resident Tutors in your accommodation, as well as the Student Services team and the Students' Union.



Peer mentoring

As well as your tutors, you will have a Peer Mentor assigned to you before you get here. They are current students who are here to help you settle into life at the University of Bath. You can chat to them about anything you want to, and what is great is that they've already been through the arrival experience so they can help with any worries or concerns you may have. The Peer Mentoring scheme is run in collaboration between the University and the Students' Union.

BathStudent.com/peer-support/mentoring

Health

The University Medical Centre and Dental Practice are based on campus, providing a wide range of NHS services, so register when you get here.

www.umcbath.co.uk
Tel: +44 (0)1225 789100

go.bath.ac.uk/dentist
Tel: +44 (0)1225 386065

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 – we know how different the University environment can be. All support is free and confidential and we can help you through a range of different situations including personal development, managing stress and anxiety, decision making, and resolving particular difficulties. There is also support for accessing NHS services.

go.bath.ac.uk/counselling-mental-health
Email: listening@bath.ac.uk

Childcare

Graded 'outstanding' in Ofsted's most recent inspection (July 2015), Westwood Nursery provides high quality day care on campus for 48 children from the age of six months to school entry age. We are open for 48 weeks of the year but student parents can have the choice of term-time-only*. Places are subject to availability – please contact the Childcare Services Manager for further details.

Email: nursery@bath.ac.uk
Tel: +44 (0)1225 386518

Faith

The University Ecumenical Chaplaincy Centre welcomes everyone from all faiths, with a Chaplain on call for students every week day. The Centre offers an active programme of daily prayer, worship, public lectures, seminars and discussion groups and the opportunity to get involved with various faith societies through the Students' Union. There is also a Muslim prayer room with washing facilities.

go.bath.ac.uk/chaplaincy
Email: chaplaincy@bath.ac.uk

Nightline

Nightline is a confidential listening, support and practical information service run by trained students, for students at the University of Bath. 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 to whatever is on your mind.

They are open 8pm - 8am every night of the semester.

Tel: Their phone number is on the back of your library card

Email: listening@bath.nightline.ac.uk
Skype: [bath.nightline](https://www.skype.com/en/contacts/bath.nightline)

BathStudent.com/nightline



Find out what our students think:
go.bath.ac.uk/blog-support

Bath Blogs

*Discounted rates are available for student parents.

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

Wales

www.studentfinancewales.co.uk

Scotland

www.saas.gov.uk

Northern Ireland

www.studentfinancenri.co.uk

EU and Islands students

EU/Islands undergraduate fees for students commencing study in, or prior to, 2017/18 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 2018/19. We will update the fee information on our website once we have received this national guidance: 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

Tuition Fees 2017 entry

Home/EU/Islands (campus based courses)	£9,250 per year
Home/EU/Islands (FdSc Addictions Counselling)	£7,710 per year
Overseas (Faculty of Humanities and Social Sciences) (Including BSc International Management and Modern Languages, NOT including BSc/MSci Sport and Exercise Science or BSc/MSci Health and Exercise Science)	£15,200 per year
Overseas (School of Management)	£17,100 per year
Overseas (Faculty of Engineering and Design, Faculty of Science) (plus BSc/MSci Sport and Exercise Science and BSc/MSci Health and Exercise Science)	£19,000 per year

For details of overseas fees for FdSc Addictions Counselling, please contact 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 28-117). The fees listed above are for the academic year 2017/18 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 in 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).

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 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

Bursaries and Scholarships

In 2017, 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 costs.

If you are a UK entrant from a low income family you will be automatically considered for our funding packages, based on your UK Government student loans income assessment. Additional criteria may also apply.

For 2017 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 £5,000 per year e.g. EY, Lloyds
- Arts scholarships
www.icia.org.uk/student/development-fund
- Sports scholarships
www.teambath.com/athlete-zone/scholarship

Awards are reviewed annually and new scholarships may become available. For the latest information and eligibility criteria see go.bath.ac.uk/student-funding

The Gold Scholarship Programme

Up to 50 students a year will have the opportunity to take part in this exciting new scholarship programme. It offers a £5,000 bursary per year of study (not including paid placement years) alongside a range of enrichment activities enabling you to maximise your Bath experience and develop your career aspirations.

These include:

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

Part-time work

Part-time work is a great way to get some extra money in your account and it can be really useful for future employment. If you already have a part-time job at a national company, it is worth asking if you can transfer to a local branch in or around Bath.

The University employs over 2,000 students on campus. You could work in the various bars and cafés on site, or you could become a Student Ambassador or Teaching Ambassador, supporting various outreach activities both on and off campus.

You can find out about jobs and opportunities in the local community here: www.bathstudent.com/joblink

Planning your budget

How much you spend as a student will, to some extent, be up to you. A typical cost of living budget (after tuition fees) will be between £8,000-£9,500 per year:

Accommodation

(Rent and bills) typically around £60-£160 (without meals) depending on your choice of University accommodation. Private rented accommodation in Bath is available at a similar average price range but may exclude utilities.

Course-related costs

In addition to the cost of text books, you will also need to cover the cost of photocopying, printing and binding, and should budget at least £100 per annum for this. Some courses involve visits away from the University campus, and you may be required to pay some or all of the costs of travel, accommodation and subsistence for such trips. If undertaking a placement, you will be responsible for your own travel, accommodation and living costs, and you should also consider the financial implications if you undertake an unpaid or overseas placement.

Food

£30-£50 per week. You can save money by cooking for yourself and even sharing the costs with housemates.

Local transport

First and Wessex buses both run regular services between the campus and the city centre. Single fares are around £1.50, but you can also purchase a range of ticket options at a discount, including year passes and ten trip tickets.

Personal costs

You will need to take into consideration costs of clothes, mobile phone, laundry, trips home and any other specific items you need.

Social activities

From £10-£40 per week.



“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



“My scholarship has allowed me to get involved with University life, rather than worrying about earning money to pay my way. Thank you for supporting me.”

Flavia Vaz, MEng Chemical Engineering

More information: go.bath.ac.uk/student-funding

More information for International students: go.bath.ac.uk/international-students

Email: undergraduatefunding@bath.ac.uk



Find out what our students think: go.bath.ac.uk/blog-budgeting

Bath Blogs

Admissions information

We encourage applications from **motivated and well-qualified students** from all backgrounds. Our admissions team consider all applications holistically and are available to guide you through the application.

How we assess your application

We look at a range of factors when making a decision on your application, including:

- your existing qualifications (such as GCSEs)
- your current studies, including the relevance of your chosen subjects
- your predicted grades
- the strength of your personal statement
- your background and educational circumstances
- evidence of achievement and potential in your academic reference
- any other relevant experiences

Our assessment is usually made solely on the basis of your UCAS application. We do not typically interview applicants, except where we need to assess suitability for a particular profession (Pharmacy and Social Work courses) or for applicants with specific qualifications (including Access to HE Diplomas and some BTECs).

If you are a high-performing athlete applying for Sports Performance, you may be invited to trial as part of your application (depending on your sport).

AS levels: To ensure fairness for all applicants while AS and A levels are changing across the UK, we will not take your performance in any AS levels into account in decision making.

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

We encourage applicants of all ages. However, if you are under 18 when your course starts, the University will not have parental responsibility for you.

For more information please see: go.bath.ac.uk/safeguarding

If you are applying as a mature student you will need to provide evidence of recent study to maximise your chances of receiving an offer.

Disclosure and Barring Service check

Certain courses will require you to obtain an Enhanced Disclosure (DBS) check. For Social Work, you will need this check before you can register. For Chemistry with Education and Pharmacy, you will need to apply during your studies. For further information, please see the relevant course pages online.

Contextual Admissions

We value the wide range of backgrounds that our students come from and we support increased diversity amongst our students. When assessing your academic achievements we will also take into account the context in which you have been studying, including data provided through the UCAS process that gives us an understanding of your socioeconomic and educational background. This information will not be used to vary conditions of offer, but we will take this information into account when we are deciding whether you receive an offer and whether you are qualified for a place once you have your results.



Application timeline



Projects – alternate offers for the EPQ and Welsh Baccalaureate

We place high value on project qualifications, if you are taking A levels (or Cambridge Pre-Us), you may receive an alternate offer that includes your project alongside a reduced version of our typical offer (requiring one grade lower than our normal offer i.e. AAA instead of A*AA). This alternate offer is in addition to the standard offer, so you can secure your place if you meet either set of requirements.

Project qualifications considered include the Extended Project Qualification (EPQ – at grade A) and the Welsh Baccalaureate Skills Challenge Certificate (at grade B). Individual offers for each course are available online: go.bath.ac.uk/ug2018



“Project qualifications provide excellent preparation for study at university due to the study and independent writing skills 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

Qualifications

We accept a wide range of qualifications for entry to our courses. Our course listings throughout the prospectus give the typical offer for A levels and the International Baccalaureate, but details for a broader range of qualifications are available online: go.bath.ac.uk/ug2018

A levels and Science Practical Endorsements

We consider A levels offered by exam boards across the UK, including International A levels, equally. If you are studying the linear A levels in sciences offered in England, a pass in the separate Science Practical Endorsement will be a requirement of your offer for any of our courses.

Cambridge Pre-U

Cambridge Pre-U courses are accepted in place of A Levels. These are offered on the basis that D2 = A*, D3 = A and M1 = B.

BTEC

We encourage applications from students with Level 3 BTECs (both QCF and RQF) and similar technical qualifications for the majority of our courses. We will also consider a mixture of A levels with BTEC study. Individual courses may require your BTEC studies to include certain modules. Full details of our offers are available online.

International Baccalaureate

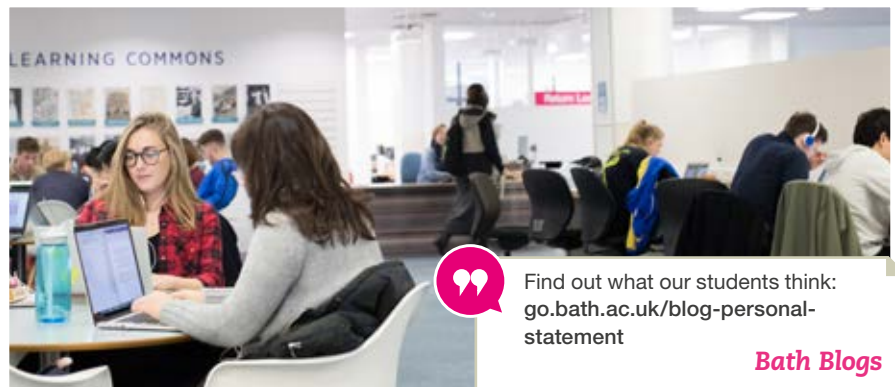
The breadth of study offered by the IB Diploma provides excellent preparation for our courses. If you achieve a Pass in an International Baccalaureate Diploma including a SL or HL in English, you do not need to meet our other English language requirements (see page 26).

Scottish Highers

We typically require you to obtain two Advanced Highers and five Highers, with requirements typically between AA + AAAAA and AB + AAABB.

Access to HE Diploma

We welcome applicants with a relevant Access to HE Diploma for the majority of our courses. Specific course requirements are available online.



Find out what our students think: go.bath.ac.uk/blog-personal-statement

Bath Blogs



Admissions information (continued)

English language and GCSE requirements

All applicants are required to demonstrate a suitable level of English language proficiency to enter any of our courses. You can demonstrate this with a relevant grade at GCSE or with one of a number of other tests and qualifications in English. Our courses are grouped into three categories of required English level. Common examples for each category are listed below, and a more comprehensive list is available on our website:

go.bath.ac.uk/english-requirements

	GCSE or IGCSE	IELTS	TOEFL IBT	Pearson PTE Academic
Category A	Grade B (or 6)	7.0 overall with 7.0 in all components	100 overall with 27 in all components	69 with 69 in all elements
Category B	Grade C (or 4)	7.0 overall with 6.5 in all components	100 overall with 24 in all components	69 with 62 in all elements
Category C	Grade C (or 4)	6.5 overall with 6.0 in all components	90 overall with 21 in all components	62 with 59 in all elements

Your English test or qualification will normally only be accepted if it has been taken no more than 30 months before you are due to start your course. IELTS, TOEFL IBT and PTE Academic tests must have been taken no more than 24 months before you are due to start.

Many of our courses also require a minimum level in Mathematics at GCSE (or equivalent), detailed on the relevant course pages.

International Foundation Year (Licensed to Bath College)

A one-year course to prepare international students for entry to a University of Bath degree

For over a decade the International Foundation Year (IFY) has offered international students a unique pathway into higher education opportunities at the University of Bath.

From September until June, you will work on a specific programme of study that will provide suitable preparation for your preferred undergraduate course at the University. You can target the majority of the degrees offered by the University. 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 in the following September. The range of degrees available, and the progression grades required, can be found on the IFY website (*details below*).

Students on the IFY study at our valued partner organisation, Bath College, which is situated in the heart of the historic city.

Entry requirements

The IFY is suitable for those non-UK/non-EU students whose qualifications are not appropriate for direct entry, yet possess a recognised high school leaving certificate of high standard, plus the required standard of English language.

We require 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. All students must meet the required standards of English for visa regulations.

Further information

For information on how to apply, all enquiries and course information, please consult the IFY website at www.bathcollege.ac.uk/bathfoundation or contact Bath College directly on BathFoundationYear@bathcollege.ac.uk | tel. +44 (0)1225 328724.



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Important information that you should know:

This prospectus is published for the guidance of students who wish to enter the University in the 2018-19 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/study2018

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

Accounting and finance

2nd for Accounting and Finance in The Complete University Guide 2017

Top five for Accounting and Finance in The Guardian University Guide 2017

95% of our BSc (hons) Accounting and Finance (4 year course) graduates employed in a professional or managerial job within six months of graduating (Unistats).

Our courses

- Accounting and Finance - see page 29

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 get a broad insight into other business areas including law, marketing and strategy.

Learning experience

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.

Graduate outcomes

95% of our Accounting and Finance (four year) graduates were employed in a professional or managerial job within six months of graduating (Unistats).

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 36
- Economics - see page 60
- Economics and Maths - see page 61



"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 with placement year

Graduates will be able to apply for professional qualification exemptions from the following bodies:

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

Assessment methods

- Coursework
- Written exam

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials
- Practical sessions

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.

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

Year 1 covers the fundamentals of economics, finance and accounting. For some of these units you'll work with students from our BSc in Business Administration. 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. Gain international exposure by spending a semester studying abroad at one of our partner business schools.

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.

Our dedicated Placements Team will liaise with employers, arrange interviews and help you apply. Placement opportunities may not be guaranteed: please see page 4 for further information. The average salary of an accounting and finance placement student in 2015 was £21,500. The highest salary was £50,000. Recent employers include Deloitte, Goldman Sachs and PwC.

Compulsory units

Year 1

- Introduction to business law
- Academic writing for management
- Introductory microeconomics
- Core skills for economists: introduction to statistics
- Core skills for economists: mathematics 1
- Introduction to business accounting
- Introductory macroeconomics
- Business computing
- Corporate finance and investment appraisal
- Financial markets context. International
- Accounting and organisations

Year 2

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

Year 3/4

- Advanced financial accounting
- Advanced management accounting
- Risk management and internal control
- Plus optional units

Examples of some current optional units*

UK tax and tax planning for the growing business, Investment and trading, Advanced macroeconomics, Management consulting; data driven approaches, Behavioural finance.

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. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA

Entry requirements

GCSE requirements

- GCSE English grade B or 6 (or equivalent from category A - see page 26).

A level and International Baccalaureate offer

- AAA including A in Mathematics.
- 36 points overall and 6, 6, 6 in three Higher Level subjects including Mathematics.

Preferred and excluded subjects

Preference for a combination of subjects which show breadth of study including both mathematics/sciences and essay-based subjects.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/acc-fin

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

These courses are regulated by the Higher Education Funding Council for England

Architecture

1st for Architecture in the 2017 Complete University Guide

1st for Architecture in The Times and The Sunday Times Good University Guide 2017

3rd for Architecture in The Guardian University Guide 2017

Our course

- Architecture - see page 31

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 engineers 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.

Learning experience

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

Our facilities are central to your study experience. Our new 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.

Graduate outcomes

The creative and analytical skills and training experience you graduate with will equip you for a range of careers. Like many of our students, you could continue your studies to become a fully qualified architect. You can take this journey with us on our Master of Architecture and RIBA part 3 courses. You could choose to pursue a career in other design-related roles such as film-making or museum curation.

Have you thought about...?

- Civil and Architectural Engineering - see page 51
- Civil Engineering - see page 52



"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

This course is fully accredited by the Architects Registration Board (ARB) and the Royal Institute of British Architects (RIBA).*

The professional training you need to practice 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 practical 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.

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 engineers in our joint department develops your understanding of the technical aspects of designing structures. It will also give you an insight into design problems you could face professionally. This cross-discipline teamwork prepares you for the professional team relationships you'll experience in your career.

Assessment methods

- Coursework
- Portfolio
- Practical work
- Written examination

Delivery methods

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

Contact time with staff*

In your first year, you should expect to spend 41% of your time in a lecture, seminar or practical/design studio setting and 59% of the time in independent study. Your unit option choices will determine your future contact hours.

Placements

Your degree experience will be distinct from that offered by most other universities in the UK. 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 in your course. You could go on placement in practices like Arup Associates, Kengo Kuma or Herzog & de Meuron. Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory 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

Extra costs

You will need to budget for an average of £90 each year for the plotting of drawings, the creation of a bound design portfolio and model making. Year 3 includes a non-compulsory study visit to a European city at a cost of approximately £250. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade B or 6 (or equivalent from category A - see page 26).

A level and International Baccalaureate offer

- A*AA in three A level subjects.
- 36 points overall and 7, 6, 6 in three Higher Level subjects.

Preferred and excluded subjects

Preference for A level or Higher Level subjects that combine Mathematics or Physics with Art or Design and Technology.

Offers can include Mathematics or Further Mathematics but not both. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/arch

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

This course is regulated by the Higher Education Funding Council for England

Biosciences

Top 10 for graduate prospects for biological sciences in The Times and Sunday Times Good University Guide 2017

Top 10 for biological sciences in The Complete University Guide 2017

Top 10 for course satisfaction for biosciences in The Guardian University Guide 2017

Our courses

- Biology - see page 33
- Biochemistry - see page 34
- Biomedical Sciences - see page 35

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 over a range of scales and from a range of organisms. You'll develop skills to analyse experimental data, draw logical conclusions and ask sensible questions about areas of uncertainty. You will learn to effectively communicate these observations and evaluations to others.

Learning experience

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

You will undertake practical classes in our well-equipped teaching laboratories. There is also a dedicated computer laboratory for bioinformatics.

Graduate outcomes

You will develop the knowledge and skills to work in a variety of fields. These could include industries such as pharmaceutical, education, environment, conservation 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.

Have you thought about...?

- Natural Sciences - see page 91
- Pharmacology - see page 93
- Sport and Exercise Science - see page 115



“The Biology course has really opened my eyes to the number of opportunities available to me once I graduate.”

Ellie McMullen, BSc Biology with placement year

Biology

C100 | BSc (Hons) Three years

C111 | BSc (Hons) Four years with placement year

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

You will learn about life on all scales, from the molecular to global ecosystems. You'll start by studying a broad range of topics in modern biosciences before focussing on a few specific areas of biology. Specialisms include areas such as organismal interrelationships, developmental biology and genomic evolution.

In the first year you'll study a broad introduction to biosciences through a set of core units. You'll also gain hands-on experience of practical scientific techniques in dedicated undergraduate laboratories. You will be able to use your fundamental knowledge base to decide what area of biology you'd like to specialise in later.

In the final year you'll undertake a research project, giving you first-hand experience as a researcher. Research areas include evolution and biodiversity, infection and immunity, industrial biotechnology and developmental biology.

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

Assessment methods

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

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials
- Laboratory sessions

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.

Placements

Apply your skills and knowledge to a year working professionally. You'll be employed full-time in a role that might be undertaken by a graduate. It will broaden your experience and transferable skills, giving you a competitive edge when applying for graduate jobs.

We have links with some leading employers including Cancer Research UK, GlaxoSmithKline, Field Studies Council, Public Health England, Royal Botanic Gardens Kew and Science Technology and Facilities Council (STFC).

Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory units

Year 1

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

Year 2

- Practice of science
- Data interpretation
- Plus optional units

Year 3/4

- Final year project
- Plus optional units

Examples of some current optional units*

The dynamic cell, Genomics, Concepts in evolution, Concepts in systems biology, Pathogenesis and immune evasion by microbes, Plant biotechnology and the environment.

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. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA or A*AB

Entry requirements

GCSE requirements

- GCSE Mathematics grade C or 4 plus GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAA or A*AB including A in Biology and a second science or mathematics subject.
- 36 points overall and 6, 6, 6 or 7, 6, 5 in 3 Higher Level subjects including 6 in Higher Level Biology and a second Higher Level science or mathematics subject.

Preferred and excluded subjects

The second essential subject can be one of the following: Chemistry, Mathematics, Physics, Geography, Psychology, Further Mathematics, Environmental Science/Studies, Food Science (or Food Technology), Electronics, Geology. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/bio

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

These courses are regulated by the Higher Education Funding Council for England

Biochemistry

C700 | BSc (Hons) Three years

C703 | BSc (Hons) Four years with 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 is the study of the molecules that interact to produce life. You will develop knowledge and techniques to understand and solve biological problems at the most 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 through a set of core units. You will also gain hands-on experience of practical scientific techniques in dedicated undergraduate laboratories. You will continue to study some core units but have choices of specialisations in later years.

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. Our academic staff are experts in their subject and can show you what it takes to be successful in that field.

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

Assessment methods

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

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials
- Laboratory sessions

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.

Placements

Apply your skills and knowledge to a year working professionally. You'll be employed full-time in a role that might be undertaken by a graduate. 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 Cancer Research UK, Porton Biopharma Limited, GlaxoSmithKline, Oxford Gene Technology, GeneSys and Medical Research Council Technology.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory 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 & disease)
- The dynamic cell 1
- Biochemical problems & bioinformatics
- Enzymology
- Practical molecular biology
- Plus optional units

Year 3/4

- Protein synthesis, folding and turnover
- Biochemical problems
- Plus optional units

Examples of some current optional units*

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

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA or A*AB

Entry requirements

GCSE requirements

- GCSE Mathematics grade C or 4 plus GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAA or A*AB including A in Biology and Chemistry.
- 36 points overall and 6, 6, 6 or 7, 6, 5 in 3 Higher Level subjects including 6 in Higher Level Biology and Chemistry.

Preferred and excluded subjects

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/biochem

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

These courses are regulated by the Higher Education Funding Council for England

Biomedical Sciences

55TG | BSc (Hons) Three years

1JKI | BSc (Hons) Four years with 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.

Studying Biomedical Sciences you will explore all aspects of modern biosciences related to humans. You'll develop fundamental scientific and experimental skills, preparing you for a career as a practical scientist in biomedical research. The curriculum is focussed on research across a broad range of topics, including human genetics and genomics, physiology, cancer biology, pathology, anatomy, immunology, molecular and cellular biology, biochemistry and pharmacology.

In the first two years you will study a set of core units from the Departments of Biology and Biochemistry, Pharmacy and Pharmacology and Health. This will give you a broad practical knowledge base of biomedical sciences. This is enhanced in the second year with optional units.

In the final year you'll have the opportunity to carry out research within either the Department of Biology and Biochemistry or Health. You will also be able to choose from a broad range of final year units to complement the areas of biomedical sciences in which you are most interested.

This course has a flexible, research-focused curriculum and is not intended for subsequent registration by the Health and Care Professions Council.

Assessment methods

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

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials
- Laboratory sessions

Contact time with staff*

In your first year, you should expect to spend 25% of your time in a lecture, seminar or practical/lab setting and 75% of the time in independent study. Your unit option choices will determine your future contact hours.

Placements

Apply your skills and knowledge to a year working professionally. You'll be employed full-time in a role that might be undertaken by a graduate. 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 Cancer Research UK, GlaxoSmithKline, Pfizer Inc, Lilly, Sanofi and Anthony Nolan.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory 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

Year 3/4

- Final year project
- Plus optional units

Examples of some current optional units*

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.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA or A*AB

Entry requirements

GCSE requirements

- GCSE Mathematics grade C or 4 plus GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAA or A*AB including A in Biology and Chemistry.
- 36 points overall and 6, 6, 6 or 7, 6, 5 in 3 Higher Level subjects including 6 in Higher Level Biology and Chemistry.

Preferred and excluded subjects

Preference for a science or mathematics subject as the third A level. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/biomed-sci

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

These courses are regulated by the Higher Education Funding Council for England

Business and management

1st for Marketing in The Complete University Guide 2017

2nd for Business & Management Studies in The Complete University Guide 2017

3rd for Business Studies in The Times and Sunday Times Good University Guide 2017

Our courses

- Business Administration - see page 37
- International Management - see page 38
- International Management and Modern Languages - see page 39
- Management - see page 40
- Management with Marketing - see page 41

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.

Learning experience

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.

Graduate outcomes

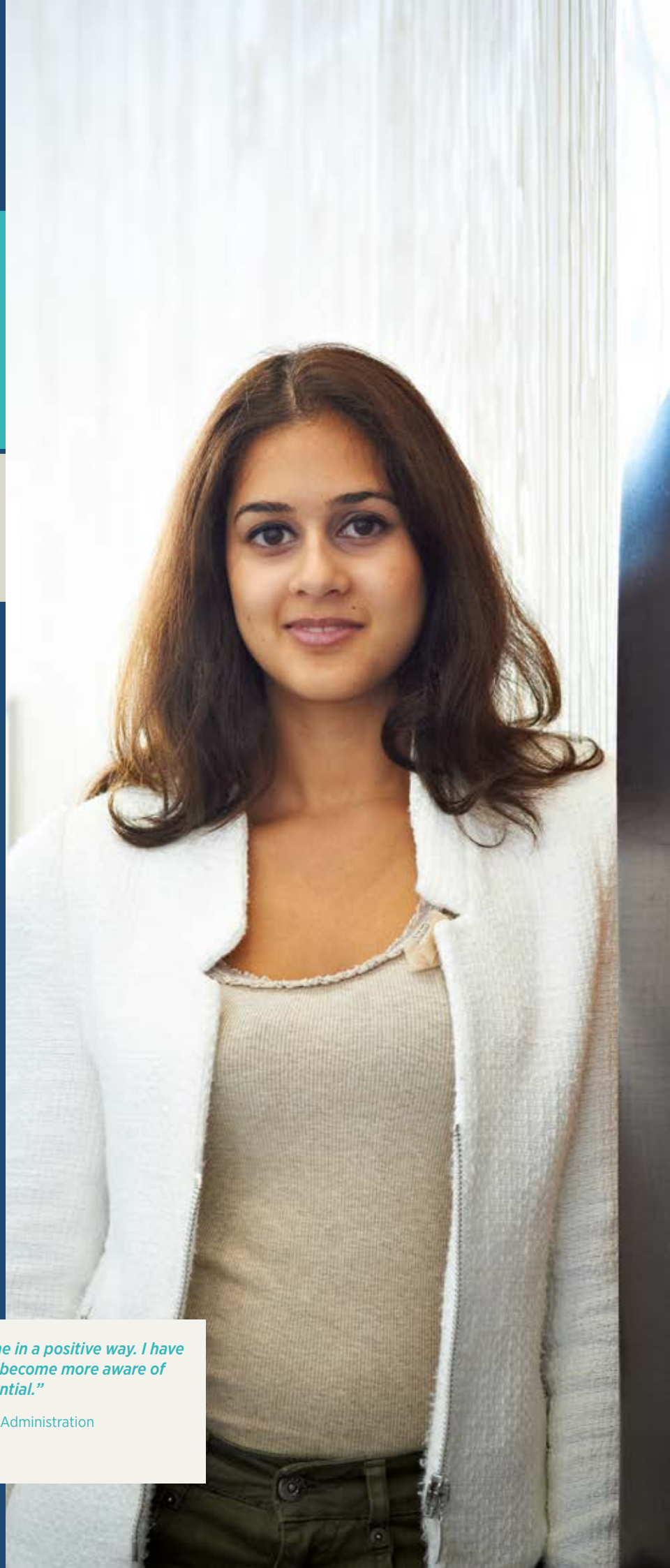
Our graduates have an excellent record of success. Over 95% of Business Administration and International Management with Modern Language students are employed in a professional or managerial job within six months of graduating (Unistats).

Recruiters include Accenture, BMW, Danone, GlaxoSmithKline, Google and Vodafone.

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

Have you thought about...?

- Accounting and Finance - see page 29
- Economics - see page 60
- Language and Politics - see page 100



"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 with 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.

Placements are real jobs and usually paid. The average salary in 2015 was £21,000 and the highest was £47,000. Our dedicated Placements Team will liaise with employers, arrange interviews and help you apply. Placement opportunities may not be guaranteed: please see page 4 for further information.

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. Gain international exposure by spending a semester studying abroad at one of our partner business schools.

Assessment methods

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

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials
- Practical sessions

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.

Compulsory 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

Examples of some current optional units*

Business strategy in the global economy, Entrepreneurship and innovation, International marketing management, Management consulting: data driven approaches, Decision making and leadership.

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. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA or A*AB

Entry requirements

GCSE requirements

- GCSE Mathematics grade B or 6 plus GCSE English grade B or 6 (or equivalent from category A - see page 26).

A level and International Baccalaureate offer

- AAA or A*AB in three A level subjects.
- 36 points overall and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects.

Preferred and excluded subjects

Preference for A level subjects that include a combination of mathematics/sciences with arts/humanities.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh). Offers can include Mathematics or Further Mathematics but not both.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/business-admin

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

These courses are regulated by the Higher Education Funding Council for England

International Management

NN12 | BSc (Hons) Four years with 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, academic exchange or a combination of both. We run exchanges with business schools in Asia, Europe, Australia and North and South America.

Work placements are real jobs and are usually paid. You'll gain a competitive advantage in the job market with this valuable experience. Our dedicated Placements Team will liaise with employers, arrange interviews and help you apply. Placement opportunities may not be guaranteed: please see page 4 for further information.

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

Assessment methods

- Coursework
- Written examination

Delivery methods

- Lectures
- Seminars
- Tutorials

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.

Compulsory 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

- Business and strategy in emerging markets
- Managing finance in a multinational company
- Managing the multinational enterprise
- International market development and trade
- Foundations of entrepreneurship and innovation
- Intermediate business analytics
- Accounting for managers in an international context
- Managing across cultures and contexts
- Plus optional units

Year 3

- Placement/study abroad

Year 4

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

Examples of some current optional units*

Brand management, Strategic marketing communications, Principles of finance for international managers, Consumer psychology, Economics of strategy: the firm.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA or A*AB

Entry requirements

GCSE requirements

- GCSE Mathematics grade B or 6 plus GCSE English grade B or 6 (or equivalent from category A - see page 26).

A level and International Baccalaureate offer

- AAA or A*AB in three A level subjects.
- 36 points overall and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects.

Preferred and excluded subjects

Preference for A level subjects that include a combination of mathematics/sciences with arts/humanities. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh). Offers can include Mathematics or Further Mathematics but not both.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/int-mgt

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

These courses are regulated by the Higher Education Funding Council for England

International Management and Modern Languages

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

NR22 | BSc (Hons) German Four years year abroad

NR24 | BSc (Hons) Spanish Four years 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 French, German or Spanish 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. You'll have the flexibility to choose a work placement, academic exchange or a combination of both.

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: please see page 4 for further information.

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

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

Assessment methods

- Coursework
- Practical work
- Written examination

Delivery methods

- Lectures
- Seminars

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.

Compulsory units

Year 1

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

Year 2

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

Year 3

- Placement/study abroad

Year 4

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

Examples of some current optional units*

Brand management, Entrepreneurship and innovation, International business law, La montée du Front National en France, The international relations of Latin America.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA-AAB

Entry requirements

GCSE requirements

- GCSE Mathematics grade B or 6 plus GCSE English grade B or 6 (or equivalent from category A - see page 26).

A level and International Baccalaureate offer

- Spanish: AAA including A in Spanish
- French: AAB including A in French
- German: AAB including A in German
- Spanish: 36 points overall and 6, 6, 6 in 3 Higher Level subjects including Higher Level Spanish
- French: 36 points overall and 6, 6, 5 in 3 Higher Level subjects including 6 in Higher Level French
- German: 35 points overall and 6, 6, 5 in 3 Higher Level subjects including 6 in Higher Level German

Preferred and excluded subjects

A level General Studies will not be considered.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/int-mgt-ml

Admissions and Outreach:

admissions@bath.ac.uk
+44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Management

N200 | BSc (Hons) Three years

N201 | BSc (Hons) Four years with 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. You'll apply what you've learned to developing a business plan and putting it into action.

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 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.

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.

Our dedicated Placements Team will liaise with employers, arrange interviews and help you apply. We have links with over 300 companies of all sizes across a variety of sectors. Recent employers include Unilever, eBay, Zurich and Accenture.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory 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

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

Year 3/4

- Strategic management
- Entrepreneurship project
- Business strategy in the global economy
- Plus optional units

Examples of some current optional units*

Brand management, Strategic marketing communications, Principles of finance for international managers, Consumer psychology, Economics of strategy: the firm.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA or A*AB

Entry requirements

GCSE requirements

- GCSE Mathematics grade B or 6 plus GCSE English grade B or 6 (or equivalent from category A - see page 26).

A level and International Baccalaureate offer

- AAA or A*AB in three A level subjects.
- 36 points overall and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects.

Preferred and excluded subjects

Preference for A level subjects that include a combination of mathematics/sciences with arts/humanities.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh). Offers can include Mathematics or Further Mathematics but not both.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/mgt

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

These courses are regulated by the Higher Education Funding Council for England

Management with Marketing

NN25 | BSc (Hons) Four years with 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.

Our dedicated Placements Team will liaise with employers, arrange interviews and help you apply. Recent employers include Unilever, L'Oréal and Hello Fresh.

Placement opportunities may not be guaranteed: please see page 4 for further information.

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.

Assessment methods

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

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials

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.

Compulsory 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

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

Year 3

- Placement year

Year 4

- Advanced advertising in management
- Developing new products and services
- Digital marketing
- Advanced consumer research
- Plus optional units

Examples of some current optional units*

Corporate responsibility: principles and perspectives, Decision making and leadership, Principles of finance for international managers, Supply management, Economics of strategy: the firm.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA or A*AB

Entry requirements

GCSE requirements

- GCSE Mathematics grade B or 6 plus GCSE English grade B or 6 (or equivalent from category A - see page 26).

A level and International Baccalaureate offer

- AAA or A*AB in three A level subjects.
- 36 points overall and 6, 6, 6 or 7, 6, 5 in three Higher Level subjects.

Preferred and excluded subjects

Preference for A level subjects that include a combination of mathematics/sciences with arts/humanities.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh). Offers can include Mathematics or Further Mathematics but not both.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/mgt-marketing

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

These courses are regulated by the Higher Education Funding Council for England

Chemical engineering

1st for course satisfaction in chemical engineering in The Guardian University Guide 2017

3rd for chemical engineering in the 2017 Complete University Guide

4th for chemical engineering in The Times and The Sunday Times Good University Guide 2017

Our courses

- Chemical Engineering - see page 43

Chemical engineering combines science, mathematics and engineering to develop new technologies, processes and products that benefit wider society.

Our course gives you the specialist knowledge, analytical skills and innovative thinking to come up with creative solutions to engineering problems that affect society and the environment. You'll learn about the technology, products and processes designed and developed by chemical and biochemical engineers. Your combined understanding of chemical engineering with legislation and management will equip you for a wide range of professions.

Learning experience

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

Our facilities are central to your study experience. You'll have access to well-equipped teaching laboratories and computer labs. In your degree, you'll have the opportunity to carry out a research project in one of our specialist research facilities. This may be in either bioprocessing, advanced separations, reactor engineering or water engineering.

Graduate outcomes

The transferable skills you graduate with will help start a career in technical and managerial roles across industry and commercial sectors. For example, you could follow a career in oil and gas, hydrogen storage, electronics and communications, alternative fuels or healthcare industries.

Have you thought about...?

- Chemistry - see page 46
- Natural Sciences - see page 91
- Mechanical Engineering - see page 87



"I chose Bath because of the opportunity to do a semester abroad and an integrated industrial placement with my studies. Chemical Engineering offered job prospects in a variety of industries and could also be used as a springboard into other professions."

Kirsten Cherry, MEng Chemical Engineering with placement year

Chemical Engineering

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

Develop a broad understanding of chemical engineering. Gain the professional, technical and managerial skills to pursue a wide range of careers as an engineer.

Our course gives you a thorough grounding in the principles and practices of chemical engineering. You'll develop professional skills in engineering, mathematics, material science, information technology, research and design, communication and management.

Integrating lecture material and practical lab sessions, you'll learn how to gather and analyse data to develop industrial strategies. You'll explore modern practical technologies and develop your understanding of process design. You'll combine planning, problem solving, teamwork and resource management skills to solve complex engineering problems.

The research project and group design projects are a chance for you to apply these core engineering principles on the bench or process scale. You can complete your research project at Bath, a university abroad or in industry. You could study topics like chemical process modelling and simulation, advanced separations, nanotechnology, catalysis, water engineering or sustainable engineering practices.

Choosing the MEng route gives you a more in-depth study experience through advanced taught units and project work. It also gives you the educational requirements you need to become a Chartered Engineer.

Assessment methods

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

Delivery methods

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

Contact time with staff*

In your first year, you should expect to spend 20% of your time in a lecture, seminar or practical/lab setting and 80% of the time in independent study. Your unit option choices will determine your future contact hours.

Placements

Going on placement gives you the chance to experience the workplace and develop skills in a commercial or industrial environment. The professional skills you learn can benefit the rest of your degree and improve your career prospects. Our students have worked at companies such as Exxon Mobil, BP and Kraft foods. You are free to move between full-time and placement option courses up until the end of your second year. If you are studying the BEng, you will go on placement in your third year. If you are studying the MEng, you will go on placement in your fourth year.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory units

Year 1

- Chemical engineering principles (conservation, transformation and separation)
- Chemical engineering skills and practice 1
- Science for chemical engineering
- Bioprocess engineering fundamentals
- Mathematics 1
- Transport phenomena
- First year design project
- Mathematics 2

Year 2

- Chemical engineering skills and practice 2
- Process dynamics, modelling and control
- Transport phenomena 2
- Engineering thermodynamics
- Reaction engineering
- Particle technology
- Management 1
- Separation processes 2
- Design and safety

Year 3/4 BEng route

- Transport phenomena 3
- Environmental management
- Advanced biochemical engineering
- Advanced chemical engineering
- BEng final design project
- Plus optional units

Year 3 MEng route

- Transport phenomena 3
- Intermediate design project
- Environmental management
- Management 2
- Advanced mathematical modelling
- MEng research project (option: home, overseas or industry)
- Plus optional units

Year 4/5 MEng route

- Advanced biochemical engineering
- Advanced chemical engineering
- Advanced materials and porous solids
- Micro-process engineering
- MEng product and process design project
- Plus optional units

Examples of some current optional units*

- BEng: Management 2, Advanced mathematical modelling, Intermediate design project
- MEng: Legislation and waste management, Biomedical engineering, Molecular and cellular biochemical engineering

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*AA in Chemistry and Mathematics, with A* in Chemistry or Mathematics (or Further Mathematics if applicable).
- 36 points overall and 7, 6, 6 in three Higher Level subjects including Chemistry and Mathematics.

Preferred and excluded subjects

Preference for Further Mathematics, Physics or Biology as the third A level subject. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/chem-eng

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

These courses are regulated by the Higher Education Funding Council for England

TOP 5

UK UNIVERSITY

The Guardian 2018



UNIVERSITY OF
BATH

Chemistry

Top 10 for chemistry in
The Complete University Guide 2017

Top 10 for teaching satisfaction for
chemistry in The Guardian University
Guide 2017

Our courses

- Chemistry - see page 46
- Chemistry for Drug Discovery - see page 47
- Chemistry with Management - see page 48

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.

Learning experience

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

Benefit from our well-equipped undergraduate teaching laboratories that cater for core experimental work. You'll also be able to access our Chemical Characterisation and Analysis Facility, and our Microscopy and Analysis Suite to familiarise yourself with spectroscopy and other techniques.

Graduate outcomes

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.

Have you thought about...?

- Biochemistry - see page 33
- Natural Sciences - see page 91
- Pharmacology - see page 93



"Bath 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 with placement year

Chemistry

This course is accredited by the Royal Society of Chemistry.*

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

You'll be able to put your chemistry knowledge into practice in research laboratories and other professional environments outside the University. 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.

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.

Assessment methods

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

Delivery methods

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

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.

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 also 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. Placement opportunities may not be guaranteed: please see page 4 for further information.

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, Australasia, Asia and Europe, including State University of New York, National University Singapore, University of South Australia and University of Helsinki.

Compulsory units

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
- Liquids and solutions

Year 3/4 BSc

- General chemistry
- Advanced practical chemistry
- Topics in inorganic chemistry I
- Topics in organic chemistry I
- Topics in physical chemistry I

Students must select one of the following:

- Dissertation
- University ambassadors scheme: science
- Chemistry project
- Engaging the public in chemistry research
- Plus optional units

Year 3/4 MChem

- General chemistry
- Advanced practical chemistry
- The chemical literature
- Topics in inorganic chemistry I
- Topics in organic chemistry I
- Topics in physical chemistry I
- Analytical chemistry in context
- Chemistry project
- Plus optional units

Year 4/5 MChem

- 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

Examples of some current optional units*

Inorganic chemistry in biological systems, Chemistry beyond the molecule, Sustainable chemistry in context, DNA in the modern world, Organic functional materials and devices.

Extra costs

You may need to purchase your own laboratory coat and safety spectacles for an approximate cost of £25. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA

Entry requirements

GCSE requirements

- GCSE Mathematics grade B or 6 plus GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAA including A in Chemistry and a second core science or mathematics subject.
- 36 points overall and 6, 6, 6 in 3 Higher Level subjects including 6 in Higher Level Chemistry and in a second Higher Level science or mathematics subject.

Preferred and excluded subjects

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/chem

Admissions and Outreach:

admissions@bath.ac.uk
+44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Chemistry for Drug Discovery

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

Assessment methods

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

Delivery methods

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

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.

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. Placement opportunities may not be guaranteed: please see page 4 for further information.

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, Australasia, Asia and Europe, including State University of New York, National University Singapore, University of South Australia and University of Helsinki.

Compulsory units

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 3/4 BSc

- 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

Year 3/4 MChem

- 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

Year 4/5 MChem

- 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

Examples of some current optional units*

Computational chemistry, Inorganic chemistry in biological systems, Chemistry beyond the molecule, DNA in the modern world, Research topics in natural products.

Extra costs

You may need to purchase your own laboratory coat and safety spectacles for an approximate cost of £25. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA

Entry requirements

GCSE requirements

- GCSE Mathematics grade B or 6 plus GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAA including A in Chemistry and a second core science or mathematics subject.
- 36 points overall and 6, 6, 6 in 3 Higher Level subjects including 6 in Higher Level Chemistry and in a second Higher Level science or mathematics subject.

Preferred and excluded subjects

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/chem-drug-disc

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

These courses are regulated by the Higher Education Funding Council for England

Chemistry with Management

This course is accredited by the Royal Society of Chemistry.*

- F145 | BSc (Hons) Three years
 F146 | BSc (Hons) Four years with placement year
 F1N2 | BSc (Hons) Four years with study year abroad
 F1NF | MSci (Hons) Four years
 F1NG | MSci (Hons) Five years with 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 management 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 are required to make. On graduation you'll be well suited to roles in scientific industries, including research, 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 hypotheses. Our chemistry degrees have the same core units in the first year giving you the flexibility to switch courses. In the final year you can undertake a research project and choose from a wide range of chemistry and management units to match the areas you would like to specialise in.

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.

Assessment methods

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

Delivery methods

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

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.

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. Placement opportunities may not be guaranteed: please see page 4 for further information.

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, Australasia, Asia and Europe, including State University of New York, National University Singapore, University of South Australia and University of Helsinki.

Compulsory units

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

Year 3/4 BSc

- General chemistry
- Advanced practical chemistry

Students must select one of the following:

- Dissertation
- University ambassadors scheme: science
- Chemistry project
- Engaging the public in chemistry research
- Plus optional units

Year 3/4 MSci

- General chemistry
- Advanced practical chemistry
- Plus optional units

Year 4/5 MSci

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

Examples of some current optional units*

Analytical chemistry, Organic chemistry of biomolecules, Principles of finance for managers, Management consulting: theory and practice, DNA in the modern world.

Extra costs

You may need to purchase your own laboratory coat and safety spectacles for an approximate cost of £25. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA

Entry requirements

GCSE requirements

- GCSE Mathematics grade B or 6 plus GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAA including A in Chemistry and a second core science or mathematics subject.
- 36 points overall and 6, 6, 6 in 3 Higher Level subjects including 6 in Higher Level Chemistry and in a second Higher Level science or mathematics subject.

Preferred and excluded subjects

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/chem-mgt

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

These courses are regulated by the Higher Education Funding Council for England

We have a new £4.5million learning zone in the city centre



Find out more:
go.bath.ac.uk/virgil-building

Civil engineering

2nd (joint) for graduate prospects in civil engineering in the 2017 Complete University Guide

3rd for civil engineering in the 2017 Complete University Guide

4th for civil engineering in The Times and The Sunday Times Good University Guide 2017

Our courses

- Civil and Architectural Engineering - see page 51
- Civil Engineering - see page 52

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

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. You'll work with architecture students and tutors as well as professionally qualified engineers in our joint department. This will allow you to go beyond a mathematical and scientific foundation to develop your creative ability alongside technical skills. You'll graduate equipped to generate the new ideas and constructions that make the world better for everyone.

Learning experience

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

You'll use structures, hydraulics, soils and natural building materials laboratories, and a timber workshop and computer laboratories. Most importantly, you'll develop your creative abilities in newly purpose built design studios.

Graduate outcomes

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. Civil engineering roles tackle complex design problems in multi-disciplinary groups, working on site anywhere in the world. Some of our graduates continue their studies with us or at other universities for a career in academia or research.

Have you thought about...?

- Architecture - see page 31
- Mechanical Engineering with Manufacturing and Management - see page 88



"My favourite part of the course is the design projects; I enjoy putting the knowledge I have gained from class into practice, developing my ideas and solving problems."

Liam Bromiley, MEng Civil Engineering

Civil and Architectural Engineering

H202 | MEng (Hons) Four years

H203 | MEng (Hons) Five years with placement year

This course is accredited by the Institution of Civil Engineers (ICE) and the Institution of Structural Engineers (IStructE).*

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.

You are free to move between civil and civil and architectural engineering courses up to the end of your second year.

Assessment methods

- Coursework
- Dissertation
- Essay
- Practical work
- Written examination

Delivery methods

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

Contact time with staff*

In your first year, you should expect to spend 39% of your time in a lecture, seminar or practical/lab setting and 61% of the time in independent study. Your unit option choices will determine your future contact hours.

Placements

Going on placement in your third year 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. You are free to move between full-time and placement option courses up until the end of your second year.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory 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

Year 3/4

- 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

Year 4/5

- Group design project - civil and architecture
- Structures 4
- Building environmental design project
- Façade engineering
- Plus optional units

Examples of some current optional units*

Architectural structures, Natural building materials, Building environment 4, Conservation engineering, Programming for design.

Extra costs

You will need to budget for an average of £100 per year for the plotting of drawings, model making and the creation and binding of reports. You will be required to go on a compulsory field course in Year 2 at a cost of approximately £130. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*AA in three A Levels including Mathematics.
- 36 points overall and 7, 6, 6 in three Higher Level subjects including Higher Level Mathematics.

Preferred and excluded subjects

Preference for applicants with Physics and challenging arts or humanities subjects.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/civ-arch-eng

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

These courses are regulated by the Higher Education Funding Council for England

Civil Engineering

- H204 | BEng (Hons) Three years
 H201 | BEng (Hons) Four years with placement year
 H200 | MEng (Hons) Four years
 H205 | MEng (Hons) Five years with 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. You'll gain a detailed understanding of mechanics, geotechnical and structural engineering theory and analysis. You'll use the ingenuity and communication skills that are essential in the challenging environment of civil engineering design.

Group work with architecture students will give you a taster of the professional team relationships you'll experience in your future 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.

You are free to move between civil and civil and architectural engineering courses up to the end of your second year.

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 to become a Chartered Engineer, whereas the BEng requires further learning.

This course is accredited by the Institution of Civil Engineers (ICE) and the Institution of Structural Engineers (IStructE).*

Assessment methods

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

Delivery methods

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

Contact time with staff*

In your first year, you should expect to spend 39% of your time in a lecture, seminar or practical/lab setting and 61% of the time in independent study. Your unit option choices will determine your future contact hours.

Placements

Going on placement in your third year 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 a professional 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. You are free to move between full-time and placement option courses up until the end of your second year.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory 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

Year 3/4

- 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

Year 4/5

- Group design project - civil
- Structures 4
- Civil infrastructure design project
- Advanced geotechnical engineering
- Plus optional units

Examples of some current optional units*

Advanced composites in construction, Sustainable concrete technology, Public health engineering for developing communities, Advanced construction Management, Programming for design.

Extra costs

You will need to budget for an average of £100 per year for the plotting of drawings, model making and the creation and binding of reports. You will be required to go on a compulsory field course in Year 2 at a cost of approximately £130. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*AA in three A Levels including Mathematics.
- 36 points overall and 7, 6, 6 in three Higher Level subjects including Higher Level Mathematics.

Preferred and excluded subjects

Preference for applicants with Physics and challenging arts or humanities subjects.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/civ-eng

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

These courses are regulated by the Higher Education Funding Council for England

Computer science

Top 5 for career prospects for computer science and information systems in The Guardian University Guide 2017

Top 10 for teaching satisfaction for computer science and information systems in The Guardian University Guide 2017

Our courses

- Computer Science - see page 54
- Computer Science and Mathematics - see page 55
- Computer Science with Business - see page 56

Computer science is the science behind much of the technology we use in our daily lives. There is more to computer science than just programming.

Join us in a supportive, well-equipped and creative environment to help you 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'll develop the ability to analyse, integrate and apply new ideas and techniques to solve computing problems.

Learning experience

You'll learn from academics with expertise in computer science. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience. Benefit from our purpose-built teaching laboratories allowing you to create and experiment with software-driven systems and devices. Handle and analyse complex, data-intensive processes over high-speed networks with our High Performance Computing facility 'Balena'. You'll also be able to access our dedicated Maths and Statistics Help (MASH) centre.

Graduate outcomes

Nearly all modern industries call on the insight and technical expertise of computer scientists. 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 also choose to go on to postgraduate study in preparation for academic or industry-based research careers.

Have you thought about...?

- Computer Systems Engineering - see page 66
- Management - see page 40
- Mathematics - see page 81



"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

This course is accredited by EQANIE (European Quality Assurance Network for Informatics Education).*

- G400 | BSc (Hons) Three years
- G401 | BSc (Hons) Four years with placement year
- I10C | BSc (Hons) Four years with study year abroad
- G403 | MComp (Hons) Four years
- G404 | MComp (Hons) Five years with placement year
- I101 | MComp (Hons) Five years with 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 very 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. You'll also develop the mathematical and programming abilities that underpin these topics.

In the first year you'll learn the basics of computer science followed by more advanced and specialised units in the second and final years. In the second year, you will complete a group project with other students to envision, design and build an interactive application. In the final year, you will choose optional units alongside intensive work on an individual project that combines your interests in computer science with academic expertise in the department.

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.

Assessment methods

- Coursework
- Dissertation
- Essay
- Written examination

Delivery methods

- Lectures
- Tutorials
- Laboratory sessions

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.

Placements

You can apply your skills and knowledge during a year working in industry. You'll be employed full-time in a role to match and develop your future career ambitions. This 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 Accenture, Imagination Technologies, Goldman Sachs, Microsoft and Google. Placement opportunities may not be guaranteed: please see page 4 for further information.

Study year 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, including Binghampton University, University of Nebraska, University of Canterbury, TU Vienna and National University Singapore.

Compulsory units

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

- Designing interactive systems
- Integrated group-based project
- Foundations of computation
- Fundamentals of visual computing
- Data structures and algorithms
- Databases
- Fundamentals of pattern analysis
- Artificial intelligence
- Comparative programming languages
- Functional programming

Year 3/4

- Individual project
- Plus optional units

Year 4/5 MComp

- Research project
- Entrepreneurship
- Plus optional units

Examples of some current optional units*

Theory of human-computer interaction, Parallel computing, Logic and semantics of programming languages, Intelligent control and cognitive systems.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA or A*AB

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category B - see page 26).

A level and International Baccalaureate offer

- AAA or A*AB including A in Mathematics.
- 36 points overall and 6, 6, 6 or 7, 6, 5 in 3 Higher Level subjects including 6 in Mathematics.

Preferred and excluded subjects

Preference for applicants with evidence of logical and analytical thinking, such as A levels in Computer Science or other science subjects or the decision mathematics stream within Mathematics A Level.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/comp-sci

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

These courses are regulated by the Higher Education Funding Council for England

Computer Science and Mathematics

- G4GD | BSc (Hons) Three years
 G4GA | BSc (Hons) Four years with placement year
 I10B | BSc (Hons) Four years with study year abroad
 G4G1 | MComp (Hons) Four years
 GLG1 | MComp (Hons) Five years with placement year
 G4GC | MComp (Hons) Five years with 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 an interest in mathematics.

In the first two years you'll study a mix of mathematics and computing units. You will study 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.

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.

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.

Assessment methods

- Coursework
- Dissertation
- Essay
- Written examination

Delivery methods

- Lectures
- Tutorials
- Laboratory sessions

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.

Placements

You can apply your skills and knowledge during a year working in industry. You'll be employed full-time in a role to match and develop your future career ambitions. This 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 Accenture, Imagination Technologies, Goldman Sachs, Microsoft and Google. Placement opportunities may not be guaranteed: please see page 4 for further information.

Study year 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, including Binghamton University, University of Nebraska, University of Canterbury, TU Vienna and National University Singapore.

Compulsory units

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 3/4

- Individual project
- Plus optional units

Year 4/5 MComp

- Research project
- Entrepreneurship
- Plus optional units

Examples of some current optional units*

Theory of human-computer interaction, Parallel computing, Logic and semantics of programming languages, Intelligent control and cognitive systems.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA or A*AB

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category B - see page 26).

A level and International Baccalaureate offer

- AAA or A*AB including A in Mathematics and Further Mathematics.
- 36 points overall and 6, 6, 6 or 7, 6, 5 in 3 Higher Level subjects including 6 in Mathematics.

Preferred and excluded subjects

Preference for applicants with evidence of logical and analytical thinking, such as A levels in Computer Science or other science subjects and the decision mathematics stream within Mathematics A level. Typical offers for applicants with AS Further Mathematics are available online.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/comp-sci-maths

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

These courses are regulated by the Higher Education Funding Council for England

Computer Science with Business

This course is accredited by EQANIE (European Quality Assurance Network for Informatics Education).*

- G4N1 | BSc (Hons) Three years
 G4NC | BSc (Hons) Four years with placement year
 I10A | BSc (Hons) Four years with 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, taught by the School of Management.

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.

Assessment methods

- Coursework
- Dissertation
- Essay
- Written examination

Delivery methods

- Lectures
- Tutorials
- Laboratory sessions

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.

Placements

You can apply your skills and knowledge during a year working in industry. You'll be employed full-time in a role to match and develop your future career ambitions. This 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 Accenture, Imagination Technologies, Goldman Sachs, Microsoft and Google. Placement opportunities may not be guaranteed: please see page 4 for further information.

Study year 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, including Binghamton University, University of Nebraska, University of Canterbury, TU Vienna and National University Singapore.

Compulsory 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

- Designing interactive systems
- 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

Year 3/4

- Individual project
- Plus optional units

Examples of some current optional units*

Theory of human-computer interaction, Parallel computing, Logic and semantics of programming languages, Intelligent control and cognitive systems.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA or A*AB

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category B - see page 26).

A level and International Baccalaureate offer

- AAA or A*AB including A in Mathematics.
- 36 points overall and 6, 6, 6 or 7, 6, 5 in 3 Higher Level subjects including 6 in Mathematics.

Preferred and excluded subjects

Preference for applicants with evidence of logical and analytical thinking, such as A levels in Computer Science or other science subjects and the decision mathematics stream within Mathematics A level.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/comp-sci-business

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

These courses are regulated by the Higher Education Funding Council for England

Counselling

Our course

- Addictions Counselling - see page 58

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.

Learning experience

You'll learn from academics and practitioners with expertise in addictions counselling. Their research activities feed into undergraduate teaching and contribute to your learning experience.

You will be able to use the facilities at both the University of Bath and the Centre for Addiction Treatment Studies.

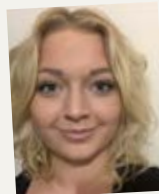
At the University of Bath you can use the campus library and the sports and recreation facilities. You are also eligible to join the University of Bath Students' Union.

Graduate outcomes

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.

Have you thought about...?

- Social Work and Applied Social Studies - see page 107
- Education with Psychology - see page 64
- Health and Exercise Science - see page 114



"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 (Franchised)

B940 | FdSc Two years

Graduates of this course may apply to be an Accredited Practitioner of the Federation of Drug and Alcohol Professionals.

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.

On this course you will be taught at the Centre for Addiction Treatment Studies in Warminster. Each unit is taught in three, four and five day blocks. You will benefit from teaching by academic staff and practitioners who are experts in their field.

On completion of the foundation degree at the required academic standard, you may have the opportunity to progress to the one year BSc (Hons) Addictions Counselling course.



The course is delivered by Action on Addiction.

Assessment methods

- Attendance
- Coursework
- Dissertation
- Essay
- Oral assessment
- Work-based placement
- Portfolio
- Practical work
- Seminar
- Other

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials
- Practical sessions

Contact time with staff*

In your first year, you should expect to spend 25% of your time in a lecture or seminar setting, 66% of the time in independent study and 9% on a work-based placement.

Compulsory 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

BSc (Hons) Addictions Counselling (work-based learning) 1 year full time

- Research methods
- Supervision
- MI and CBT 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

Extra costs

In addition to the cost of text books, you will also need to cover the cost of photocopying, printing and binding, and should budget at least £100 per year for this. You will be responsible for your own travel, accommodation and living costs during the teaching blocks, the large work-based component of the programme and for the two-day selection process you will be required to attend as part of the application process. Accommodation, at an additional cost, is available at the Centre for Addiction Treatment Studies for the teaching blocks and during the two-day selection process only, this is on a 'first come first served' basis.

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: CD

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and Access to HE Diploma typical offer (Addictions Counselling course only)

- CD in two A level subjects.
- Pass the Access to HE Diploma in a relevant subject area including passes in 45 credits at Level 3.

Accreditation of Prior/Experiential Learning (APEL)

We may be able to consider you without formal qualifications if you have a minimum of two years' relevant work experience.

If you are a student who will require a Tier 4 visa you will not be able to register onto this course.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/addictions-counselling

admissions@bath.ac.uk
+44 (0)1225 383019

Course enquiries
Tel: **+44 (0)1985 843780**
Email: **training@actiononaddiction.org.uk**

This course is regulated by the Higher Education Funding Council for England

Economics

1st for Graduate Prospects in Economics in The Complete University Guide 2017

Top 10 ranking in Economics in The Times and Sunday Times Good University Guide 2017

Our courses

- Economics - see page 60
- Economics and Mathematics - see page 61
- Economics and Politics - see page 62

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.

Learning experience

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.

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.

Graduate outcomes

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 Amazon, Deloitte, Goldman Sachs, Lloyds Banking Group and UBS.

Have you thought about...?

- International Development with Economics - see page 74
- Politics with Economics - see page 103
- Accounting and Finance - see page 29



"The course has a nice balance between theory and applications and is quite flexible; you can specialise in areas you find interesting, such as environmental economics, game theory and econometrics."

Ludi Wang, BSc Economics

Economics

- L100 | BSc (Hons) Three years
 L101 | BSc (Hons) Four years with placement year
 L104 | BSc (Hons) Four years with study year abroad
 L105 | BSc (Hons) Four years with 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 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.

Assessment methods

- Coursework
- Dissertation
- Multiple choice examination
- Written examination

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials

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.

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. Placement opportunities may not be guaranteed: please see page 4 for further information.

Private sector: Morgan Stanley, Goldman Sachs, HSBC Investment Bank, Amazon, BP, Microsoft, NGOs, International Development consultancies, LMC International. **Public sector:** Bank of England, House of Commons, NHS England, Welsh Assembly, HM Treasury, Transport for London, Cabinet Office, Ministry of Justice.

Study year 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.

Compulsory units covering these topics

Year 1

- Introductory microeconomics
- Mathematics for economists
- The modern world economy
- Introduction to probability and statistics
- Introductory macroeconomics
- Statistics and data analysis
- Economic policy in the UK
- Plus optional units

Year 2

- Introduction to econometrics
- Intermediate microeconomics
- Intermediate macroeconomics
- Plus optional units

Year 3/4

- Advanced macroeconomics
- Advanced microeconomics
- Plus optional units

Examples of some current optional units*

Public economics, International economics, Economics of banking, Growth theory, Industrial organisation.

Due to student feedback we are currently improving the unit structure. Units will cover the topics listed above.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category B - see page 26).

A level and International Baccalaureate offer

- A*AA including Mathematics.
- 36 points overall and 7, 6, 6 in 3 Higher Level subjects including Mathematics.

Preferred and excluded subjects

Preference for applicants with a breadth of study across traditional A level subjects including Further Mathematics. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/econ

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

These courses are regulated by the Higher Education Funding Council for England

Economics and Mathematics

L102 | BSc (Hons) Three years

L103 | BSc (Hons) Four years with placement year

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.

Assessment methods

- Coursework
- Dissertation
- Multiple choice examination
- Written examination

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials

Contact time with staff*

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

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.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory units covering these topics

Year 1

- Analysis
- Introductory microeconomics
- Algebra
- Probability and statistics
- Methods and applications
- Introductory macroeconomics
- Mathematical economics

Year 2

- Introduction to econometrics
- Intermediate microeconomics
- Intermediate macroeconomics
- Plus optional units

Year 3/4

- Advanced macroeconomics
- Advanced microeconomics
- Plus optional units

Examples of some current optional units*

Algebra, Statistics, Economics of financial markets, Economics of incentives, Time series.

Due to student feedback we are currently improving the unit structure. Units will cover the topics listed above.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*A in Mathematics and Further Mathematics plus either A in a third A Level or B in a third A Level plus grade 2 in any STEP or Merit in the GCE AEA in Mathematics.
- 36 points overall and 7, 6, 6 in 3 Higher Level subjects including 6 in Mathematics or 7, 6, 5 in 3 Higher Level subjects including 7 in Mathematics.

Preferred and excluded subjects

Typical offers are available online for applicants without A level Further Mathematics. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/econ-maths

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

These courses are regulated by the Higher Education Funding Council for England

Economics and Politics

- LL12 | BSc (Hons) Three years
 LLC2 | BSc (Hons) Four years with placement year
 LLC3 | BSc (Hons) Four years with study year abroad
 LLC4 | BSc (Hons) Four years with 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.

Assessment methods

- Coursework
- Dissertation
- Multiple choice examination
- Written examination

Delivery methods

- Lectures
- Seminars
- Workshops
- 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.

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. Placement opportunities may not be guaranteed: please see page 4 for further information.

Our students have taken placements in: Nomura, EY, Microsoft, the Pension Protection Fund, BP, UBS, Morgan Stanley and Amazon.

Study year 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 unique 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.

Compulsory units covering these topics

Year 1

- Introductory microeconomics
- Mathematics for economists
- Introduction to probability and statistics
- Introduction to politics: theory and analysis
- Introductory macroeconomics
- Statistics and data analysis
- Introduction to international relations
- Plus optional units

Year 2

- Intermediate microeconomics
- Intermediate macroeconomics
- Economics of politics
- Economic thought and policy
- International comparative politics
- Plus optional units

Year 3/4

- Optional units

Examples of some 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.

Due to student feedback we are currently improving the unit structure. Units will cover the topics listed above.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category B - see page 26).

A level and International Baccalaureate offer

- A*AA including Mathematics.
- 36 points overall and 7, 6, 6 in 3 Higher Level subjects including Mathematics.

Preferred and excluded subjects

Preference for applicants with a breadth of study across traditional A level subjects. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/econ-pol

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

These courses are regulated by the Higher Education Funding Council for England

Education

Our courses

- Education with Psychology - see page 64

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 problems such as 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.

Learning experience

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.

Graduate outcomes

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 105
- Social Sciences - see page 110
- Sport and Social Sciences - see page 116



"The interdisciplinary approach and the range of optional units allows us to create our own learning paths, exploring in greater depth disciplines that are of individual interest to us: psychology in my case."

Joyce Meloni, BA Childhood Youth and Education Studies (now BA Education with Psychology)

Education with Psychology

LX5H | BA (Hons) Three years

LXM3 | BA (Hons) Four years with placement year

Explore how young children and adolescents learn and develop. You'll focus on contemporary society, both globally and in the UK context.

In this course, you'll study a range of social science content from the disciplines of education, psychology and sociology. You'll study in depth the social and developmental contexts of childhood and youth. During the degree, you'll 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.

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.

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: Kaseye Girls' Secondary School, Families Effective Learning and Literacy (FELL) group, Honeypot Children's Charity, Playbox Theatre, Headstart Primary School and the Trauma Centre.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory 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

Year 3/4

- 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
- Children and young people as consumers
- Plus optional units

Examples of some current optional units*

Education in society, Talk and learning, Education inequality in high income countries.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: ABB

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category B - see page 26).

A level and International Baccalaureate offer

- ABB in three A level subjects.
- 35 points overall and 6, 5, 5 in 3 Higher Level subjects.

Preferred and excluded subjects

Preference for applicants with essay-based subjects at A level.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/edu-psych

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

These courses are regulated by the Higher Education Funding Council for England

Electronic and electrical engineering

4th for graduate prospects in The Times and The Sunday Times Good University Guide 2017

Top 5 for careers after 6 months in The Guardian University Guide 2017

7th overall in The Guardian University Guide 2017

Our courses

- Computer Systems Engineering - see page 66
- Electrical and Electronic Engineering - see page 67
- Electrical Power Engineering - see page 68
- Electronic Engineering with Space Science and Technology - see page 69
- Electronic Systems Engineering - see page 70

The study of electricity and its application in modern systems and devices, underpinning most technological advances in industry and society.

Learn about the technology behind communications, transport and energy. You'll combine creativity with advanced technical knowledge and scientific analysis to design and build electronic devices and systems.

Develop your academic, management and leadership skills to become a professional electronic and electrical engineer. You'll graduate equipped for a career in industry, research or academia.

Learning experience

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.

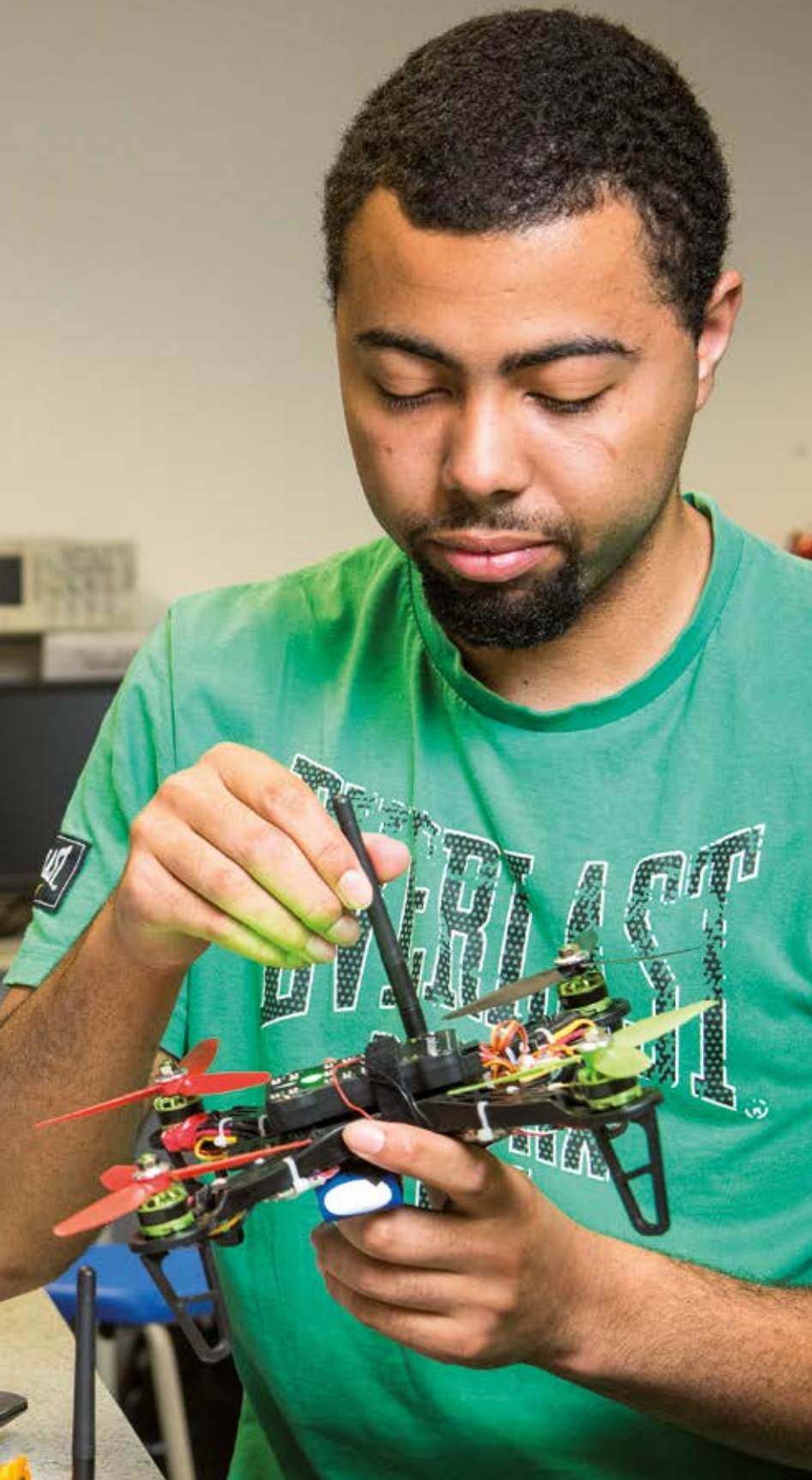
You'll have access to facilities specially equipped for your degree. Our facilities are designed to be similar to industrial workspaces so you gain an insight into what it is like to work in a professional environment. These include laboratories for tomography, superconductivity, autonomous systems and robotics. We also have facilities for optoelectronics and circuit board prototyping, and a mechanical workshop.

Graduate outcomes

Our courses have been designed in consultation with leading industrial partners to ensure that graduates meet the requirements of 21st Century 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, communication, robotics or manufacturing. Many of our graduates continue their studies to pursue an academic or research career.

Have you thought about...?

- Computer Science - see page 54
- Integrated Mechanical and Electrical Engineering - see page 72
- Integrated Design Engineering - see page 86



"I chose to study at Bath for the quality of the equipment, the option of a taking a placement year and the friendly campus and city environment."

Elizabeth Lloyd, MEng Electrical and Electronic Engineering with placement year

Computer Systems Engineering

GH46 | BEng (Hons) Three years
 GHK6 | BEng (Hons) Four years with placement year
 HG64 | MEng (Hons) Four years
 HGP4 | MEng (Hons) Five years with 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 in 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 in modern mobile devices or high-performing 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.

This course is accredited by the Institution of Engineering and Technology (IET)*

Assessment methods

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

Delivery methods

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

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.

Placements

Going on placement in your third year 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. 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 may not be guaranteed: please see page 4 for further information.

Compulsory units

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 manufacturing 2
- Group design and professional engineering practice 2
- Control systems

Year 3/4

- Fundamentals of visual computing
- Digital networks and protocols
- Digital audio and signal processing

BEng route

- BEng individual project
- BEng group project
- Plus optional units

MEng route

- Group design and business project 1
- Group design and business project 2
- Plus optional units

Year 4/5 MEng

- Digital image processing
- Computational intelligence
- Satellite, terrestrial and mobile communication systems
- MEng individual project
- Plus optional units

Examples of some current optional units*

All: Microelectronic systems, High frequency electronics and design, Parallel computing.

MEng: Safety-critical computer systems, Radar systems and remote sensing.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA-AAB

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- MEng: AAA including Mathematics and a second science or technology subject.
BEng: AAB including A in Mathematics and B in a second science or technology subject.
- MEng: 36 points overall and 6, 6, 6 in three Higher Level subjects including 6 in Mathematics and 6 in one other science or technology subject.
BEng: 36 points overall and 6, 6, 5 in three Higher Level subjects including 6 in Mathematics and 5 in one other science or technology subject.

Preferred and excluded subjects

Preference for Physics or Electronics as the second science or technology subject. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/comp-syst-eng

Admissions and Outreach:

admissions@bath.ac.uk
+44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Electrical and Electronic Engineering

- H603 | BEng (Hons) Three years
 H604 | BEng (Hons) Four years with placement year
 H600 | MEng (Hons) Four years
 H601 | MEng (Hons) Five years with 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. You can keep your career options open and tailor your degree with a range of advanced engineering units.

You'll gain a detailed understanding of electrical and electronic principles and 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 in topics such as virtual-reality tracking systems, medial 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.

Assessment methods

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

Delivery methods

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

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.

Placements

Going on placement in your third year 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. Our students have worked at companies including Intel, Jaguar Land Rover, Thales and McLaren Electronics. You can move between full-time and placement option courses up until the end of your second year. Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory units

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 manufacturing 2
- Electrical systems and power electronics
- Group design and professional engineering practice 2
- Control systems

Year 3/4

BEng route

- BEng Individual project
- BEng Group project
- Plus optional units

MEng route

- Group design and business project 1
- Group design and business project 2
- Plus optional units

Year 4/5 MEng

- MEng individual project
- Plus optional units

Examples of some current optional units*

All: Digital communications, Power electronics and drives, Microelectronic systems, Digital audio and signal processing, Control engineering.

MEng: Computational intelligence, Biosensors and bioelectronics, Satellite based navigation systems, Digital image processing, Power electronics and machines.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA-AAB

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- **MEng:** AAA including Mathematics and a second science or technology subject.
BEng: AAB including A in Mathematics and B in a second science or technology subject.
- **MEng:** 36 points overall and 6, 6, 6 in three Higher Level subjects including 6 in Mathematics and 6 in one other science or technology subject.
BEng: 36 points overall and 6, 6, 5 in three Higher Level subjects including 6 in Mathematics and 5 in one other science or technology subject.

Preferred and excluded subjects

Preference for Physics or Electronics as the second science or technology subject. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/electrical-elec-eng

Admissions and Outreach:

admissions@bath.ac.uk
+44 (0)1225 3830199

These courses are regulated by the Higher Education Funding Council for England

Electrical Power Engineering

- H630 | BEng (Hons) Three years
 H631 | BEng (Hons) Four years with placement year
 H632 | MEng (Hons) Four years
 H633 | MEng (Hons) Five years with placement year

The course is accredited by the Institution of Engineering and Technology (IET).*

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. Combining theory and practice, you'll learn how to use advanced technologies to conceptualise, design and operate power and energy systems.

Group and individual projects give you the chance to work on specialist topics like smart metering, electrical drives, or advanced signal processing. The technical, teamwork and management experience 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.

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.

Assessment methods

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

Delivery methods

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

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.

Placements

Going on placement in your third year 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. Our students have worked at companies including RWE npower, Visteon and National Grid. You can move between full-time and placement option courses up until the end of your second year. Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory units

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 manufacturing 2
- Electrical systems and power electronics
- Group design and professional engineering practice 2
- Control systems

Year 3/4

- Control engineering
- Power electronics and drives
- Power system plant
- Power system fundamentals

BEng route

- BEng individual project
- BEng group project
- Plus optional units

MEng route

- Group design and business project 1
- Group design and business project 2
- Plus optional units

Year 4/5 MEng

- Energy management systems
- Power electronics and machines
- Power system protection
- MEng individual project
- Plus optional units

Examples of some current optional units*

Power markets and economics, Digital communications.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA-AAB

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- **MEng:** AAA including Mathematics and a second science or technology subject.
BEng: AAB including A in Mathematics and B in a second science or technology subject.
- **MEng:** 36 points overall and 6, 6, 6 in three Higher Level subjects including 6 in Mathematics and 6 in one other science or technology subject.
BEng: 36 points overall and 6, 6, 5 in three Higher Level subjects including 6 in Mathematics and 5 in one other science or technology subject.

Preferred and excluded subjects

Preference for Physics or Electronics as the second science or technology subject. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/electrical-power-eng

Admissions and Outreach:

admissions@bath.ac.uk
+44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Electronic Engineering with Space Science and Technology

H6H4 | BEng (Hons) Three years
 H6H7 | BEng (Hons) Four years with placement year
 H6HK | MEng (Hons) Four years
 H6H5 | MEng (Hons) Five years with 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 environment of space.

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.

Group and individual projects give you the chance to work on specialist topics like systems-level designs for satellites and planetary landers. The technical, teamwork and management experience you gain will prepare you for a career in the space 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.

Assessment methods

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

Delivery methods

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

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.

Placements

Going on placement in your third year 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. Our students have worked at companies including Surrey Satellite Technology, Thales and Astrium. You can move between full-time and placement option courses up until the end of your second year. Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory units

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 manufacturing 2
- Electrical systems and power electronics
- Group design and professional engineering practice 2
- Control systems

Year 3/4

- Digital networks and protocols
- Radio and optical waves for communication
- Spacecraft systems engineering

BEng route

- BEng individual project
- BEng group project
- Plus optional units

MEng route

- Group design and business project 1
- Group design and business project 2
- Plus optional units

Year 4/5 MEng

- Satellite, terrestrial and mobile communication systems
- Radar systems and remote sensing
- Satellite based navigation systems
- MEng individual project
- Plus optional units

Examples of some current optional units*

All: High frequency electronics and design, Microelectronic systems.

MEng: Optical devices and communication systems.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA-AAB

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- **MEng:** AAA including Mathematics and a second science or technology subject.
BEng: AAB including A in Mathematics and B in a second science or technology subject.
- **MEng:** 36 points overall and 6, 6, 6 in three Higher Level subjects including 6 in Mathematics and 6 in one other science or technology subject.
BEng: 36 points overall and 6, 6, 5 in three Higher Level subjects including 6 in Mathematics and 5 in one other science or technology subject.

Preferred and excluded subjects

Preference for Physics or Electronics as the second science or technology subject. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/elec-eng-space

Admissions and Outreach:

admissions@bath.ac.uk

+44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Electronic Systems Engineering

The course is accredited by the Institution of Engineering and Technology (IET).*

- H640 | BEng (Hons) Three years
 H641 | BEng (Hons) Four years with placement year
 H622 | MEng (Hons) Four years
 H623 | MEng (Hons) Five years with 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.

Group and individual projects let you 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.

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.

Assessment methods

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

Delivery methods

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

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.

Placements

Going on placement in your third year 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. Our students have worked at companies including Intel, Motorola, Orange and Thales. You can move between full-time and placement option courses up until the end of your second year. Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory units

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 manufacturing 2
- Electrical systems and power electronics
- Group design and professional engineering practice 2
- Control systems

Year 3/4 BEng and MEng

- Microelectronic systems
- Plus optional units

Year 4/5 MEng

- Advanced microelectronic system design
- Plus optional units

Examples of some current optional units*

All: High frequency electronic design, Analogue and mixed signal electronics, Spacecraft systems engineering.

MEng: Satellite based navigation systems, Biosensors and bioelectronics.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA-AAB

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- **MEng:** AAA including Mathematics and a second science or technology subject.
BEng: AAB including A in Mathematics and B in a second science or technology subject.
- **MEng:** 36 points overall and 6, 6, 6 in three Higher Level subjects including 6 in Mathematics and 6 in one other science or technology subject.
BEng: 36 points overall and 6, 6, 5 in three Higher Level subjects including 6 in Mathematics and 5 in one other science or technology subject.

Preferred and excluded subjects

Preference for Physics or Electronics as the second science or technology subject. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/elec-sys-eng

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

These courses are regulated by the Higher Education Funding Council for England

Integrated mechanical and electrical engineering

95% overall student satisfaction
in the National Students Survey
(NSS) 2016

Top 5 for careers in Electronic and
Electrical Engineering in The Guardian
University Guide 2017

Our courses

- Integrated Mechanical and Electrical Engineering - see page 72

Combines the core elements of both engineering sciences. Learn about the design and manufacture of electrical and mechanical devices, technologies and systems.

Explore the theory and practice of modern mechanical and electrical technologies. You'll gain a detailed understanding of how to integrate principles of both disciplines at systems level to solve advanced engineering problems.

Our MEng degrees give you a more in-depth study experience through advanced taught units and project work. You'll graduate with the educational requirements you need to become a Chartered Engineer.

Learning experience

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

You'll have access to facilities specially equipped for the application of electrical and mechanical engineering. Our facilities 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.

Graduate outcomes

The course has been designed in consultation with leading industrial partners to ensure that graduates meet the requirements of 21st Century engineering industries. Your interdisciplinary skills will equip you for a wide choice of careers. You could have a successful career in industries such as 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.

Have you thought about...?

- Electrical and Electronic Engineering - see page 67
- Mechanical Engineering - see page 87
- Integrated Design Engineering - see page 86



"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 with 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.

In your first two years, you'll develop a comprehensive knowledge of mechanics, materials, electrical and electronic systems and circuits. You'll apply your theoretical groundwork in coordinated projects and laboratory work where you will design and develop products and systems.

Group and individual projects give you the opportunity to put your learning into practice. You could design and build robotics, medical devices or sports and games equipment. The technical, teamwork and management experience you gain will prepare you for working in professional environments.

You'll graduate with the interdisciplinary skills needed to contribute to professional teams in industrial and research communities.

This course is accredited by the Institution of Engineering and Technology (IET) and the Institute of Mechanical Engineers (IMechE).*

Assessment methods

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

Delivery methods

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

Contact time with staff*

In your first year, you should expect to spend 34% of your time in a lecture, seminar or practical/lab setting and 66% of the time in independent study. Your unit option choices will determine your future contact hours.

Placements

Going on placement in your third year 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. Our students have worked at companies including OC Robotics, Renishaw, BAE Systems and Jaguar Land Rover.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory units

Year 1

- Circuit theory
- Mathematics 1
- Thermodynamics
- Solid mechanics 1
- Design materials and manufacturing 1
- Digital electronics
- Robotics and mechatronic systems
- Mathematics 2
- Solid mechanics 2
- Design materials and manufacturing 2

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

Year 3/4

- Control engineering
- Power electronics and drives
- Group project units or extended integrated project: please see website for full details*
- Plus optional units

Year 4/5

- Robotics engineering
- Integrated engineering final year project
- Plus optional units

Examples of some current optional units*

Innovation and advanced design, Computational intelligence, Biomimetics.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAA including A in Mathematics and Physics.
- 36 points overall and 6, 6, 6 in three Higher Level subjects including Mathematics and Physics.

Preferred and excluded subjects

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/int-mech-elec

Admissions and Outreach:
admissions@bath.ac.uk
+44 (0)1225 3830199

These courses are regulated by the Higher Education Funding Council for England

International development

Top 50 for Development Studies in the QS World University Rankings 2016

Our courses

- International Development with Economics - see page 74

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.

Learning experience

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.

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.

Graduate outcomes

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 and international businesses (especially in emerging markets).

It also provides a solid foundation for postgraduate training for journalism, teaching and business.

Have you thought about...?

- Politics with Economics – see page 103
- International Management – see page 38
- Social Policy – see page 109



"International Development with Economics has been the perfect way for me to learn about the world we live in today, its needs and our responsibilities. The course has just the right amount of analytical depth and a host of amazing lecturers present in our department- an experience that will change your world view forever."

Nabaa Zaynah, BSc International Development with Economics

International Development with Economics

53H3 | BSc (Hons) Three years

L407 | BSc (Hons) Four years with 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. 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 these 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 skills and perspectives to current problems of development. You will also maintain a focus on economic analysis.

Assessment methods

- Attendance
- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Portfolio
- 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.

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.

Placement opportunities our students on related degrees have taken include: NGOs, political think tanks, The World Food Programme and international development consultancies. Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory 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

Year 3/4

- International development dissertation
- Inequality in developing countries
- Development finance
- Plus optional units

Examples of some current optional units*

The manufacture of consent: propaganda, public relations and power, 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.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAB

Entry requirements

GCSE requirements

- GCSE Mathematics grade A or 7 plus GCSE English grade B or 6 (or equivalent from category A - see page 26).

A level and International Baccalaureate offer

- AAB in 3 A level subjects.
- 36 points overall and 6, 6, 5 in 3 Higher Level subjects.

Preferred and excluded subjects

Preference for at least one humanities subject such as: Economics, History, Religious Studies, Geography, Sociology, Politics, Politics and Government, Philosophy or Psychology. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/int-dev-econ

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

These courses are regulated by the Higher Education Funding Council for England

Languages

Top 5 for career after six months for Modern Languages and Linguistics in The Guardian University Guide 2017

Top 10 for Graduate Prospects for French, German, Iberian Languages, Italian and East European Languages in The Times and Sunday Times Good University Guide 2017

Our courses

- Modern Languages and European Studies with year abroad - see page 76

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.

Learning experience

You'll learn from academics with expertise in cultural studies, politics and modern languages. Their international collaborations and research activities feed into undergraduate teaching and contribute to your learning experience.

You will be able to use dedicated computer labs that feature specialist software and equipment for language students.

With our Self Access Language Centre you can further your language skills with dedicated software. You can immerse yourself in cultures with reading materials and captioned television shows in 72 languages.

Graduate outcomes

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 in Lloyds Banking Group, International Tennis Federation, HSBC, Department for Work and Pensions, European Parliament, IBM, University of Provence and Louis Vuitton.

A high number of students choose to go directly into employment, while some pursue further study.

Have you thought about...?

- International Management and Modern Languages - see page 39
- Language and Politics - see page 100



"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 77-78

Achieve fluency in two languages. You'll 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 language.

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+ 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 been employed in a number of interesting roles for all or part of their year abroad. Some examples include: Institute of Political Studies (Strasbourg and Paris), University of Naples (Italy), University of Guadalajara (Mexico), GE Power (France), European Parliament (Luxembourg), IT Comunicación (Spain), Di Palma Associati (Italy), Fujitsu (Germany), Belgian Embassy (Chile), The Bubble (Argentina).

Placement opportunities may not be guaranteed: please see page 4 for further information.

Assessment methods

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

Delivery methods

- Lectures
- Seminars
- Laboratory sessions
- Practical sessions

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 the table at the bottom of Page 79 for course-specific information about contact time in your first year. Your unit options will determine your future contact hours.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAB-ABB

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

BA (Hons) Modern Languages and European Studies (French and German)

- ABB including French and German with A in French or German.
- 35 points overall and 6, 5, 5 in 3 Higher Level subjects including French and German with 6 in either French or German.

BA (Hons) Modern Languages and European Studies (German and *ab initio* Italian)

- ABB including A in German.
- 35 points overall and 6, 5, 5 in 3 Higher Level subjects including 6 in German.

BA (Hons) Modern Languages and European Studies (French and *ab initio* Italian)

- ABB including A in French.
- 35 points overall and 6, 5, 5 in 3 Higher Level subjects including 6 in French.

BA (Hons) Modern Languages and European Studies (French and Spanish)

- AAB including French and Spanish.
- 35 points overall and 6, 6, 5 in 3 Higher Level subjects including French and Spanish.

BA (Hons) Modern Languages and European Studies (Spanish and *ab initio* Italian)

- ABB including A in Spanish.
- 35 points overall and 6, 5, 5 in 3 Higher Level subjects including 6 in Spanish.

BA (Hons) Modern Languages and European Studies (German and Spanish)

- ABB including German and Spanish with A in German or Spanish.
- 35 points overall and 6, 5, 5 in 3 Higher Level subjects including German and Spanish with 6 in either German or Spanish.

Preferred and excluded subjects (all degrees)

A level General Studies will not be considered.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/mod-lang-euro

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

Modern Languages and European Studies (French and *ab initio* Italian)

RR1H | BA (Hons) 4 Years with year abroad

Compulsory 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 1A
- Italian written and spoken language 1A (*ab initio*)
- French written and spoken language 1B
- Italian written and spoken language 1B (*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 2A
- Italian written and spoken language 2A
- European integration
- French written and spoken language 2B
- Italian written and spoken language 2B
- Research design and methods in Modern languages and European studies

Year 3

- Year abroad

Year 4

- French written and spoken language 3A
- Italian written and spoken language 3A
- French written and spoken language 3B
- Italian written and spoken language 3B
- Modern languages and European studies dissertation
- Plus optional units

Examples of some current optional units* Culture and national identity, In search of Europe (1) - the cold war 1945 - 1989, Italian national option IT9: organised crime and democracy in Italy, Language, power and society, French national option F20: La montée du Front National en France.

Modern Languages and European Studies (French and German)

RR12 | BA (Hons) 4 Years with year abroad

Compulsory units

Year 1

- Europe since 1789
- France and the revolution(s): 1789-1968
- Deutschland 1871 bis 1989
- French written and spoken language 1A
- German written and spoken language 1A
- French written and spoken language 1B
- German written and spoken language 1B

Year 2

- Continuity and change in contemporary French politics and society, 1969 to today
- Die DDR und das vereingte Deutschland
- French written and spoken language 2A
- German written and spoken language 2A
- French written and spoken language 2B
- German written and spoken language 2B
- European integration
- Research design and methods in Modern languages and European studies

Year 3

- Year abroad

Year 4

- French written and spoken language 3A
- German written and spoken language 3A
- French written and spoken language 3B
- German written and spoken language 3B
- Modern languages and European studies dissertation
- Plus optional units

Examples of some current optional units* Culture and national identity, In search of Europe (1) - the cold war 1945 - 1989, Language, power and society, French national option F20: La montée du Front National en France, German national option G9: Die Massenmedien in der Bundesrepublik Deutschland und Großbritannien.

Modern Languages and European Studies (French and Spanish)

RR14 | BA (Hons) 4 Years with year abroad

Compulsory units

Year 1

- Europe since 1789
- France and the Revolution(s): 1789-1968
- Spain from 1898 to the present
- French written and spoken language 1A
- Spanish written and spoken language 1A
- French written and spoken language 1B
- Spanish written and spoken language 1B

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 2A
- Spanish written and spoken language 2A
- European integration
- French written and spoken language 2B
- Spanish written and spoken language 2B
- Research design and methods in Modern languages and European studies

Year 3

- Year abroad

Year 4

- French written and spoken language 3A
- Spanish written and spoken language 3A
- French written and spoken language 3B
- Spanish written and spoken language 3B
- Modern languages and European studies dissertation
- Plus optional units

Examples of some current optional units* Culture and national identity, In search of Europe (1) - the cold war 1945 - 1989, The politics of democracy and development in Latin America, Language, power and society, French national option F20: La montée du Front National en France.

Modern Languages and European Studies (German and *ab initio* Italian)

RR2H | BA (Hons) 4 Years with year abroad

Compulsory 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 1A
- Italian written and spoken language 1A (*ab initio*)
- German written and spoken language 1B
- Italian written and spoken language 1B (*ab initio*)

Year 2

- Italy since 1945: politics, culture and society
- Die DDR und das vereingte Deutschland
- German written and spoken language 2A
- Italian written and spoken language 2A
- European integration
- German written and spoken language 2B
- Italian written and spoken language 2B
- Research design and methods in Modern languages and European studies

Year 3

- Year abroad

Year 4

- German written and spoken language 3A
- Italian written and spoken language 3A
- German written and spoken language 3B
- Italian written and spoken language 3B
- Modern languages and European studies dissertation
- Plus optional units

Examples of some current optional units* Culture and national identity, In search of Europe (1) - the cold war 1945 - 1989, Italian national option IT9: organised crime and democracy in Italy, Language, power and society, German national option G9: Die Massenmedien in der Bundesrepublik Deutschland und Großbritannien.

Modern Languages and European Studies (German and Spanish)

RR24 | BA (Hons) 4 Years with year abroad

Compulsory units

Year 1

- Europe since 1789
- Spain from 1898 to the present
- Deutschland 1871 bis 1989
- German written and spoken language 1A
- Spanish written and spoken language 1A
- German written and spoken language 1B
- Spanish written and spoken language 1B

Year 2

- Introduction to 20th and 21st century Latin America
- Die DDR und das vereinigte Deutschland
- German written and spoken language 2A
- Spanish written and spoken language 2A
- European integration
- German written and spoken language 2B
- Spanish written and spoken language 2B
- Research design and methods in Modern languages and European studies

Year 3

- Year abroad

Year 4

- German written and spoken language 3A
- Spanish written and spoken language 3A
- German written and spoken language 3B
- Spanish written and spoken language 3B
- Modern languages and European studies dissertation
- Plus optional units

Examples of some current optional units* Culture and national identity, In search of Europe (1) - the cold war 1945 - 1989, The politics of democracy and development in Latin America, Language, power and society, German national option G9: Die Massenmedien in der Bundesrepublik Deutschland.

Modern Languages and European Studies (Spanish and *ab initio* Italian)

RR4H | BA (Hons) 4 Years with year abroad

Compulsory units

Year 1

- Europe since 1789
- The making and shaping of a new nation-state: Italy 1815-1945
- Spain from 1898 to the present
- Italian written and spoken language 1A (*ab initio*)
- Spanish written and spoken language 1A
- Italian written and spoken language 1B (*ab initio*)
- Spanish written and spoken language 1B

Year 2

- Introduction to 20th and 21st century Latin America
- Italy since 1945: politics, culture and society
- Italian written and spoken language 2A
- Spanish written and spoken language 2A
- European integration
- Italian written and spoken language 2B
- Spanish written and spoken language 2B
- Research design and methods in Modern languages and European studies

Year 3

- Year abroad

Year 4

- Italian written and spoken language 3A
- Spanish written and spoken language 3A
- Italian written and spoken language 3B
- Spanish written and spoken language 3B
- Modern languages and European studies dissertation
- Plus optional units

Examples of some current optional units* Culture and national identity, In search of Europe (1) - the cold war 1945 - 1989, Italian national option IT9: organised crime & democracy in Italy, The politics of democracy and development in Latin America, Language, power and society.

Contact time in first year of study

Languages	Course code	Time in lecture/seminar setting	Independent study
French and <i>ab initio</i> Italian	RR1H	22%	78%
French and German	RR12	20%	80%
French and Spanish	RR14	20%	80%
German and <i>ab initio</i> Italian	RR2H	23%	77%
German and Spanish	RR24	20%	80%
Spanish and <i>ab initio</i> Italian	RR4H	23%	77%

*For more information about units and contact hours visit: go.bath.ac.uk/mod-lang-euro

Mathematical sciences

Top 5 for graduate prospects for mathematics in The Times and Sunday Times Good University Guide 2017

Top 10 for mathematics in The Complete University Guide 2017

Top 10 for career prospects for mathematics in The Guardian University Guide 2017

Our courses

- Mathematical Sciences - see page 80
- Mathematics - see page 81
- Mathematics and Statistics - see page 82
- Statistics - see page 83

Mathematics and statistics underlies 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.

Learning experience

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

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'.

Graduate outcomes

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, Ernst & Young and Tate & Lyle. Many of our graduates also choose to go on to postgraduate study in preparation for academic or industry-based research careers.

Have you thought about...?

- Computer Science and Mathematics - see page 55
- Economics and Mathematics - see page 61
- Mathematics and Physics - see page 96



"The wide range of modules offered by the Department has given me the opportunity to head down a multitude of career paths."

Tom Hadfield, BSc Mathematics with placement year

Mathematical Sciences

G140 | BSc (Hons) Three years

G141 | BSc (Hons) Four years with placement year

G142 | BSc (Hons) Four years with 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 2 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.

Assessment methods

- Coursework
- Dissertation
- Oral assessment
- Written examination
- Other

Delivery methods

- Lectures
- Workshops
- Tutorials
- Laboratory sessions

Contact time with staff*

In your first year, you should expect to spend 38% of your time in a lecture, seminar or practical/lab setting and 62% of the time in independent study. Your unit option choices will determine your future contact hours.

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 BAE Systems, Ernst & Young, Office of National Statistics, JP Morgan and Deloitte.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Study year 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 University of Helsinki.

Compulsory 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

Year 3/4

- Optional units

Examples of some current optional units*

Stochastic processes and finance, Differential geometry of curves and surfaces, Medical statistics, Cryptography, Econometrics 1.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*A in Mathematics and Further Mathematics plus either A in a third A level or B in a third A level plus grade 2 in any STEP or Merit in the GCE AEA in Mathematics.
- 36 points overall and 7, 6, 6 in 3 Higher Level subjects including 6 in Mathematics or 7, 6, 5 in 3 subjects including 7 in Mathematics.

Preferred and excluded subjects

Typical offers are available online for applicants without A level Further Mathematics. A level General Studies will not be considered.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/math-sci

Admissions and Outreach:

admissions@bath.ac.uk
+44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Mathematics

- G100 | BSc (Hons) Three years
- G101 | BSc (Hons) Four years with placement year
- G105 | BSc (Hons) Four years with study year abroad
- G103 | MMath (Hons) Four years
- 3FG4 | MMath (Hons) Five years with placement year
- G104 | MMath (Hons) Four years with 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 masters level units and a two-semester research project, preparing you for postgraduate study or a career in academic or industrial research.

Assessment methods

- Coursework
- Dissertation
- Oral assessment
- Written examination
- Other

Delivery methods

- Lectures
- Workshops
- Tutorials
- Laboratory sessions

Contact time with staff*

In your first year, you should expect to spend 38% of your time in a lecture, seminar or practical/lab setting and 62% of the time in independent study. Your unit option choices will determine your future contact hours.

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 BAE Systems, Ernst & Young, Office of National Statistics, JP Morgan and Deloitte.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Study year 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 University of Helsinki.

Compulsory 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 BSc

- 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

Year 2 MMath

- Algebra 2A
- Analysis 2A
- Algebra 2B
- Analysis 2B
- Plus optional units

Year 3/4 BSc

- Optional units

Year 3/4 MMath

- Optional units

Final year MMath

- Two-semester research project
- Plus optional units

Examples of some current optional units*

BSc: Graphs and networks: theory and applications, Stochastic processes and finance, Scientific computing, Differential geometry of curves and surfaces, Medical statistics.

MMath: Functional analysis, Probability with martingales, Viscous fluid mechanics, Algebraic topology, Topics in Bayesian statistics.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*A in Mathematics and Further Mathematics plus either A in a third A level or B in a third A level plus grade 2 in any STEP or Merit in the GCE AEA in Mathematics.
- 36 points overall and 7, 6, 6 in 3 Higher Level subjects including 6 in Mathematics or 7, 6, 5 in 3 subjects including 7 in Mathematics.

Preferred and excluded subjects

Typical offers are available online for applicants without A level Further Mathematics. A level General Studies will not be considered.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/maths

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

These courses are regulated by the Higher Education Funding Council for England

Mathematics and Statistics

GG13 | BSc (Hons) Three years

GG31 | BSc (Hons) Four years with placement year

GG32 | BSc (Hons) Four years with 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.

Assessment methods

- Coursework
- Dissertation
- Oral assessment
- Written examination
- Other

Delivery methods

- Lectures
- Workshops
- Tutorials
- Laboratory sessions

Contact time with staff*

In your first year, you should expect to spend 38% of your time in a lecture, seminar or practical/lab setting and 62% of the time in independent study. Your unit option choices will determine your future contact hours.

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 BAE Systems, Ernst & Young, Office of National Statistics, JP Morgan and Deloitte.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Study year 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 University of Helsinki.

Compulsory 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

Year 3/4

- Generalised linear models
- Plus optional units

Examples of some current optional units*

Graphs and networks: theory and applications, Stochastic processes and finance, Mathematical biology, Differential geometry of curves and surfaces, Medical statistics.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*A in Mathematics and Further Mathematics plus either A in a third A level or B in a third A level plus grade 2 in any STEP or Merit in the GCE AEA in Mathematics.
- 36 points overall and 7, 6, 6 in 3 Higher Level subjects including 6 in Mathematics or 7, 6, 5 in 3 subjects including 7 in Mathematics.

Preferred and excluded subjects

Typical offers are available online for applicants without A level Further Mathematics. A level General Studies will not be considered.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/maths-stats

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

These courses are regulated by the Higher Education Funding Council for England

Statistics

- G300 | BSc (Hons) Three years
 G301 | BSc (Hons) Four years with placement year
 G302 | BSc (Hons) Four years with 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 on 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.

Assessment methods

- Coursework
- Dissertation
- Oral assessment
- Written examination
- Other

Delivery methods

- Lectures
- Workshops
- Tutorials
- Laboratory sessions

Contact time with staff*

In your first year, you should expect to spend 38% of your time in a lecture, seminar or practical/lab setting and 62% of the time in independent study. Your unit option choices will determine your future contact hours.

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 BAE Systems, Ernst & Young, Office of National Statistics, JP Morgan and Deloitte.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Study year 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 Binghampton University, National University Singapore, University of Canterbury, Stellenbosch University and University of Helsinki.

Compulsory 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

Year 3/4

- Generalised linear models
- Applied statistics
- Plus optional units

Examples of some current optional units*

Generalised linear models, Stochastic processes and finance, Optimisation methods of operational research, Discrete probability, Graphs and networks: theory and applications.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*A in Mathematics and Further Mathematics plus either A in a third A level or B in a third A level plus grade 2 in any STEP or Merit in the GCE AEA in Mathematics.
- 36 points overall and 7, 6, 6 in 3 Higher Level subjects including 6 in Mathematics or 7, 6, 5 in 3 subjects including 7 in Mathematics.

Preferred and excluded subjects

Typical offers are available online for applicants without A level Further Mathematics. A level General Studies will not be considered.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/statistics

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

These courses are regulated by the Higher Education Funding Council for England

Mechanical engineering

3rd for Mechanical Engineering in the 2017 Complete University Guide

4th for Aeronautical and Manufacturing Engineering in The Times and The Sunday Times Good University Guide 2017

90% overall satisfaction in the National Students Survey 2016

Our courses

- Aerospace Engineering - see page 85
- Integrated Design Engineering - see page 86
- Mechanical Engineering - see page 87
- Mechanical Engineering with Manufacturing and Management - see page 88
- Mechanical with Automotive Engineering - see page 89

Mechanical engineering combines mathematics and scientific analysis with creative thinking to design and manufacture machines, technologies and systems.

Mechanical engineering is used across a range of industries such as aerospace, manufacturing, medicine, renewable energy and Formula 1. 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. You'll develop the technical leadership, initiative and interpersonal skills to pursue a professional career in engineering.

Learning experience

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

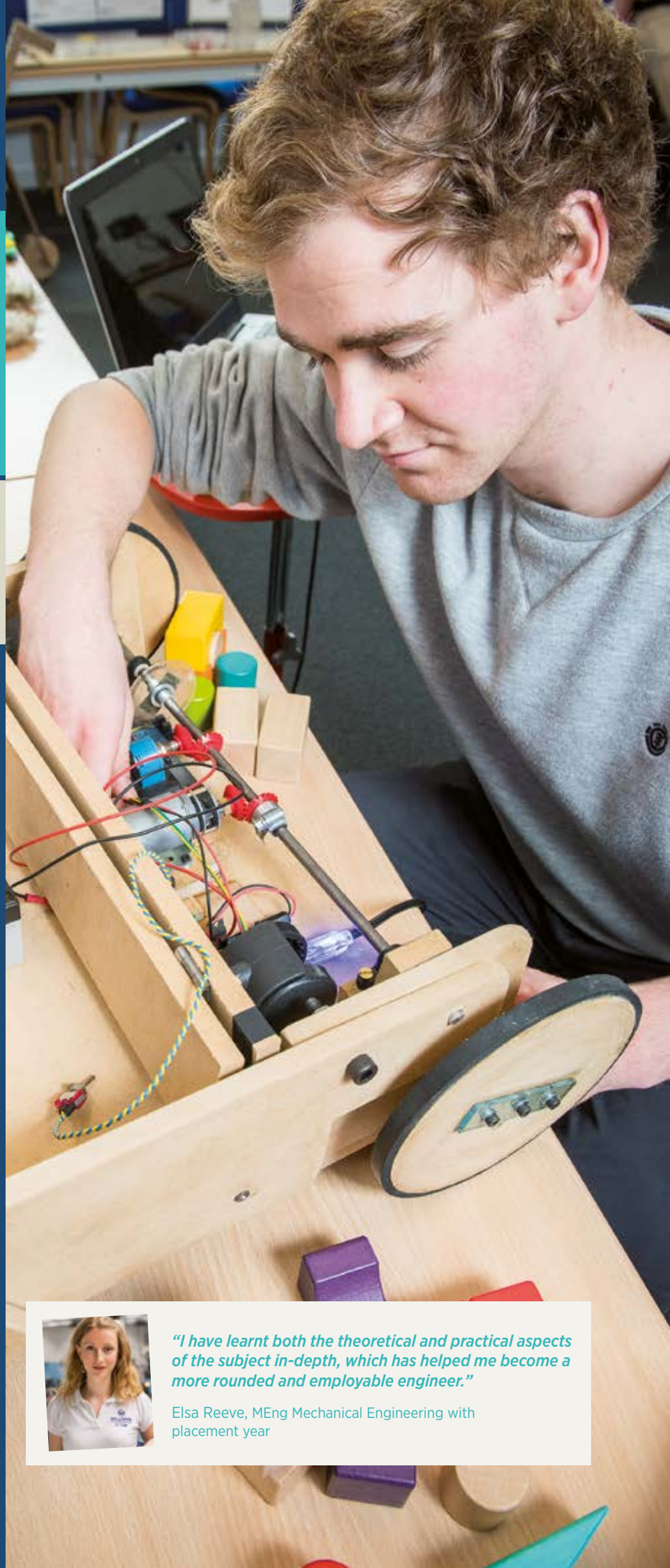
You'll have access to teaching and research laboratories that support a range of activities. Our facilities are designed to be similar to industrial work spaces so that you can gain insight into what it is like to work in a professional environment. These include a model shop, sub-sonic wind tunnel, water tunnel, rolling road dynamometer and a carbon fibre manufacturing facility.

Graduate outcomes

Our graduates have many skills that make them attractive to prospective employers, including team-work, 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.

Have you thought about...?

- Integrated Mechanical and Electrical Engineering - see page 72
- Electrical and Electronic Engineering - see page 67
- Civil Engineering - see page 52



"I have learnt both the theoretical and practical aspects of the subject in-depth, which has helped me become a more rounded and employable engineer."

Elsa Reeve, MEng Mechanical Engineering with placement year

Aerospace Engineering

H400 | MEng (Hons) Four years

H423 | MEng (Hons) Five years with placement year

This course is accredited by the Royal Aeronautical Society (RAeS) and the Institution of Mechanical Engineers (IMechE).*

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 can switch to any of our five mechanical engineering degrees up to the end of your second year.

You'll study aircraft performance, control and structures, composites, aerodynamics, propulsion and space flight. 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.

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.

Assessment methods

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

Delivery methods

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

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.

Placements

Going on placement in your third year gives you the chance to experience working in an industrial or commercial environment. You'll develop professional skills that will benefit the rest of your degree and improve your career prospects. Our students have worked at companies such as Airbus, Rolls Royce and Red Bull Technology. You are free to move between full-time and placement option courses up until the end of your second year. Your placement will count towards becoming a Chartered Engineer. Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory units

Year 1

- Experimentation, engineering skills and applied engineering
- Thermodynamics
- Solid mechanics
- 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
- Fluid dynamics with historical perspective
- Thermal power and heat transfer
- Modelling techniques 2
- Solid mechanics 4
- Design 4
- Manufacturing operations and technology

Year 3/4

- 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

Year 4/5

- Engineering project
- Advanced helicopter dynamics
- Plus optional units

Examples of some current optional units*

Spacecraft engineering, Composite materials, Business processes, Innovation and advanced design, Energy and the environment, Computational fluid dynamics.

Extra costs

You will need to buy certain drawing instruments that will cost approximately £45. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*AA including Mathematics and Physics with A* in Mathematics or Physics (or Further Mathematics if applicable).
- 36 points overall and 7, 6, 6 in three Higher Level subjects including Mathematics and Physics.

Preferred and excluded subjects

Preference for applicants with their third A Level in a relevant subject (such as Further Mathematics or Design and Technology) or a traditional subject (such as History).

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/aero-eng

Admissions and Outreach:

admissions@bath.ac.uk
+44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Integrated Design Engineering

H761 | MEng (Hons) Four years

H762 | MEng (Hons) Five years with placement year

This course is accredited by the Institution of Engineering and Technology (IET).*

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.

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. You can switch to any of our five mechanical engineering degrees up to the end of your second year.

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.

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.

Assessment methods

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

Delivery methods

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

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.

Placements

Going on placement in your third year gives you practical experience in an industrial or commercial work environment and counts towards becoming a Chartered Engineer. The professional skills you learn can benefit the rest of your degree and improve your career prospects. You can move between full-time and placement option courses up until the end of your second year. Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory 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
- Solid mechanics 3
- Design 3
- Modelling techniques 2
- Thermal power and heat transfer
- Solid mechanics 4
- Design 4
- Manufacturing operations technology

Year 3/4

- 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 optional units

Year 4/5

- Design optimisation project
- Mechatronic design project 2
- Major individual design project 1
- Major individual design project 2
- Plus optional units

Examples of some current optional units*

Control systems, Computer aids for design, Robotics engineering, Biomechanics, Energy and the environment, Digital image processing.

Extra costs

You will need to buy certain drawing instruments that will cost approximately £45. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*AA including Mathematics and Physics with A* in Mathematics or Physics (or Further Mathematics if applicable).
- 36 points overall and 7, 6, 6 in three Higher Level subjects including Mathematics and Physics.

Preferred and excluded subjects

Preference for applicants with their third A Level in a relevant subject (such as Further Mathematics or Design and Technology) or a traditional subject (such as History).

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/int-design-eng

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

These courses are regulated by the Higher Education Funding Council for England

Mechanical Engineering

H306 | MEng (Hons) Four years

H309 | MEng (Hons) Five years with placement year

This course is accredited by the Engineering Council and the Institution of Mechanical Engineers (IMechE).*

Combine detailed subject knowledge with initiative to solve complex engineering problems. Develop the professional skills to pursue a career as an engineer.

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.

You can switch to any of our five mechanical engineering degrees up to the end of your second year. The flexibility in our course structure lets you choose the direction of your degree with a large selection of optional units including aerospace, automotive, design, manufacturing, environmental or medical engineering.

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, who compete in international competitions such as Formula Student or the Isle of Man TT Zero.

Assessment methods

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

Delivery methods

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

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.

Placements

Going on placement in your third year gives you the chance to gain practical experience in an industrial or commercial work environment. A placement counts towards becoming a Chartered Engineer and can improve your career prospects. Our students have worked at companies such as Atkins Global, Dyson and Rolls-Royce. You're free to move between full-time and placement option courses up until the end of your second year. Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory 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

Year 3/4

- 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

Year 4/5

- Engineering project or Specialist design 2
- Plus optional units

Examples of some current optional units*

Innovation and advanced design, Medical engineering, Energy and the environment, Advanced manufacturing and assembly, Vehicle engineering.

Extra costs

You will need to buy certain drawing instruments that will cost approximately £45. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*AA including Mathematics and Physics with A* in Mathematics or Physics (or Further Mathematics if applicable).
- 36 points overall and 7, 6, 6 in three Higher Level subjects including Mathematics and Physics.

Preferred and excluded subjects

Preference for applicants with their third A Level in a relevant subject (such as Further Mathematics or Design and Technology) or a traditional subject (such as History).

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/mech-eng

Admissions and Outreach:

admissions@bath.ac.uk
+44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Mechanical Engineering with Manufacturing and Management

H716 | MEng (Hons) Four years

H713 | MEng (Hons) Five years with placement year

Learn how engineering, manufacturing and management integrate in industry. Gain expertise in product creation processes from initial design to end product.

Our course develops your understanding of the sciences and disciplines relating to manufacturing. You'll study engineering, manufacturing and management in equal measures to understand their role in production processes. The integrated systems, processes and technologies used in advanced manufacturing industries will be explored throughout your degree.

A grounding in core mechanical engineering principles is combined with physical science, mathematics and computing to develop your ability to analyse engineering systems. As part of your learning experience, you will investigate how to design, operate and control manufacturing systems. You'll study specialist topics like project management, business processes, costing, and managing human resources. You can switch to any of our five mechanical engineering degrees up to the end of your second year.

Group and individual projects encourage you to take 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 final year, you'll have the flexibility to choose from a range of specialist units.

This course is accredited by the Engineering Council, the Institution of Engineering and Technology (IET) and the Institution for Mechanical Engineers (IMechE).*

Assessment methods

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

Delivery methods

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

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.

Placements

A placement in your third year lets you experience the workplace and learn about the technologies and processes that companies use. 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 move between full-time and placement option courses up until the end of your second year. Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory 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 technology

Year 3/4

- 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

Year 4/5

- Engineering project
- Modelling and analysis of manufacturing systems
- Plus optional units

Examples of some current optional units*

Innovation and advanced design, Medical engineering, Energy and the environment, Materials selection in engineering design, Costing for engineering design and manufacture, Robotics engineering.

Extra costs

You will need to buy certain drawing instruments that will cost approximately £45. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*AA including Mathematics and Physics with A* in Mathematics or Physics (or Further Mathematics if applicable).
- 36 points overall and 7, 6, 6 in three Higher Level subjects including Mathematics and Physics.

Preferred and excluded subjects

Preference for applicants with their third A Level in a relevant subject (such as Further Mathematics or Design and Technology) or a traditional subject (such as History).

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/mech-eng-manu-mgt

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

These courses are regulated by the Higher Education Funding Council for England

Mechanical with Automotive Engineering

H330 | MEng (Hons) Four years

H343 | MEng (Hons) Five years with placement year

Combine detailed subject knowledge with initiative to solve complex engineering problems. Develop the professional skills to pursue a career as an engineer.

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.

Your first two years give you a detailed understanding of the core mechanical engineering principles. 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. In your final year, you'll have the flexibility to choose from a range of specialist units.

Group and individual projects give you the chance to put theory into practice and gain experience in engineering enterprise management. You'll use your initiative to creatively solve complex engineering problems. The balance of technical, teamwork, and project management skills you develop will prepare you for the workplace.

You can also 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.

Assessment methods

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

Delivery methods

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

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.

Placements

A placement in your third year gives you the chance to experience 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. Our students have worked at companies such as McLaren Automotive, Williams F1, Red Bull Racing and Jaguar Land Rover. You can move between full-time and placement option courses up until the end of your second year. Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory 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

Year 3/4

- Control systems
- Structural mechanics
- Internal combustion engine technology
- Vehicle dynamics
- Vehicle engineering
- Group business and design project 1
- Group business and design project 2

Year 4/5

- Engineering project
- Powertrain and transportation systems
- Turbocharging and engine boosting
- Plus optional units

Examples of some current optional units*

Aerodynamics, Computational fluid dynamics, Innovation and advanced design, Energy and the environment, Business processes.

Extra costs

You will need to buy certain drawing instruments that will cost approximately £45. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*AA including Mathematics and Physics with A* in Mathematics or Physics (or Further Mathematics if applicable).
- 36 points overall and 7, 6, 6 in three Higher Level subjects including Mathematics and Physics.

Preferred and excluded subjects

Preference for applicants with their third A Level in a relevant subject (such as Further Mathematics or Design and Technology) or a traditional subject (such as History).

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/mech-auto-eng

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

These courses are regulated by the Higher Education Funding Council for England

Natural sciences

Our courses

- Natural Sciences - see page 91

Natural sciences is multi-disciplinary. 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. Broaden your course even further by taking non-science subjects such as management or education.

Learning experience

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.

Learn alongside single honours students in the subjects you choose. You'll have access to the wide range of laboratories and specialised facilities provided by the departments you're studying in.

Graduate outcomes

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.

Have you thought about...?

- Biochemistry - see page 33
- Mathematics and Physics - 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 if you don't want to focus on just one."

Isabelle Sumner, BSc Natural Sciences with placement year



Natural Sciences

CFG0	BSc (Hons) Three years
FCG0	BSc (Hons) Four years with placement year
GCF0	BSc (Hons) Four years with study year abroad
GFC0	MSci (Hons) Four years
GFCA	MSci (Hons) Five years with placement year
GFCB	MSci (Hons) Five years with 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 chemistry, biology and physics at school or college and want to keep that breadth. 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 2 of Biology, Biochemistry, Chemistry or Physics following successful completion of a Year 1 double stream in that subject.

The Master of Science (MSci) course provides you with same core sciences but in more depth than the BSc. It also gives you greater exposure to current research.

Assessment methods

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

Delivery methods

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

Contact time with staff*

In your first year, you should expect to spend at least 31% of your time in a lecture or seminar setting, 69% of the time you'll spend studying independently. Your unit option choices will determine your future contact hours.

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 QinetiQ, CERN, Ernst & Young, UK Met Office, GlaxoSmithKline and European Synchrotron Radiation Facility (ESRF). Placement opportunities may not be guaranteed: please see page 4 for further information.

Study year 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 University of Nebraska, National University of Singapore, University of Canterbury and University of Helsinki.

Degree structure

Year 1		Year 2		Year 3*	Year 4 (MSci only)
Science Major (2 blocks)	Optional transfer to single honours or between BSc and MSci	Science Major (2 blocks)	Optional placement or study year abroad	Science Major (2 blocks)	Science Major (2 blocks)
Science Minor(s) (2 blocks)		Science Minor(s) (2 blocks)		Science Minor(s) (2 blocks)	Science Minor(s) (2 blocks)
Option or Science		Option		Option	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 3 Science Minor/Option blocks

Major subjects are chosen from Biology, Biochemistry, 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 compulsory unit in your final year.

Subject combinations and units*

You can design your perfect course before you enrol using our course guide: go.bath.ac.uk/nat-sci-guide. Here you'll find the full range of subject combinations and units available.

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. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*AA including Mathematics and two subjects from Biology, Chemistry or Physics.
- 36 points overall and 7, 6, 6 in 3 Higher Level subjects, including Mathematics and 2 subjects from Biology, Chemistry or Physics.

Preferred and excluded subjects

Preference for two core sciences (from Biology, Chemistry or Physics) alongside Mathematics at A level or Higher Level. Guidance is available online for applicants with only one core science alongside Mathematics.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/nat-sci

Admissions and Outreach:

admissions@bath.ac.uk
+44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Pharmacy and pharmacology

Top 5 for research quality for pharmacology and pharmacy in The Complete University Guide 2017

Top 10 for career prospects for pharmacy and pharmacology in The Guardian University Guide 2017

Top 10 for pharmacology and pharmacy in The Complete University Guide 2017

Our courses

- Pharmacology - see page 93
- Pharmacy - see page 94

Pharmacy and pharmacology involve the study of how medicines affect physiological systems.

Pharmacy will also include the clinical skills required to distribute medicines to patients.

Train to be a high quality, innovative and independent research scientist or pharmacist. You'll develop your knowledge and skills base in core sciences and subject-specific areas. Graduates can play a major role in healthcare teams as a pharmacist or pursue a career in drug discovery and optimisation.

Learning experience

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

Pharmacy students will learn how to prescribe and dispense medicines safely in our Pharmacy Practice Suite, including consulting rooms and a life-like robotic patient.

Pharmacologists will develop key practical skills in our dedicated pharmacology laboratory and on placement.

Graduate outcomes

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.

Pharmacology graduates are well suited to research careers with the pharmaceutical industry. Many of our graduates also choose to go on to postgraduate study in preparation for research careers.

Have you thought about...?

- Biomedical Sciences - see page 35
- Natural Sciences - see page 91
- Chemistry for Drug Discovery - see page 47



"I like the course at Bath because there is a focus on lab work and I get placement opportunities in top pharmaceutical companies."

Jasmine Sim, MPharmacol Pharmacology

Pharmacology

B210 | BSc (Hons) Three years

B213 | MPharmacol (Hons) Four years with placement year

Learn to develop more effective treatment for diseases and discover how chemicals may modify living systems. You'll be trained to become a research scientist.

You'll gain knowledge of the fundamental principles of chemistry, biology and the physical sciences and be able to apply these principles to specific problems in pharmacology. Through our hands-on classes you'll develop practical laboratory skills.

This course will provide you with an integrated view of drug action linked to normal and disease-related functions of the major organ systems.

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 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.

You'll be trained to be a high quality, innovative and independent research scientist. As a pharmacologist you can go on to work on the development of new treatments for both human and animal diseases.

If you love lab work and the idea of discovering how chemicals may modify living systems this is the degree for you.

Assessment methods

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

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials
- Laboratory sessions

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.

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, AstraZeneca and UCB. Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory 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
- Cell regulation and function: receptors to genes
- Experimental pharmacology 1
- Cardiovascular, renal and peripheral nervous system pharmacology
- Pharmacokinetics
- Infection and immunity
- Experimental pharmacology 2

Year 3/4 BSc

- Research project in pharmacology
- Molecular applications in pharmacology
- Recent advances in drug discovery
- Advanced topics, trends and technologies in pharmacology
- Plus optional units

Year 3 MPharmacol

- Pharmacology placement
- Dissertation in Pharmacology
- Landmarks in Pharmacology

Year 4 MPharmacol

- Research project in pharmacology
- Molecular applications in pharmacology
- Recent advances in drug discovery
- Advanced topics, trends and technologies in pharmacology
- Plus optional units

Examples of some current optional units*

Central nervous system pharmacology, Cardiovascular pharmacology, The molecular biology and treatment of cancer, Pharmacology of regenerative medicine, Engaging the public with drug discovery research.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAB

Entry requirements

GCSE requirements

- GCSE Mathematics grade C or 4 plus GCSE English grade C or 4 (or equivalent from category B - see page 26).

A level and International Baccalaureate offer

- AAB including Chemistry and one other science or mathematics subject.
- 36 points overall and 6, 6, 5 in 3 Higher Level subjects including Chemistry and one other science or mathematics subject.

Preferred and excluded subjects

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/pharmacol

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

These courses are regulated by the Higher Education Funding Council for England

Pharmacy

B230 | MPharm (Hons) Four years

This course is accredited by the General Pharmaceutical Council (GPhC).*

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 grounding in human biology and origins of disease, pharmaceutical chemistry, and physical sciences. You'll also develop your knowledge of basic mathematics and statistics.

You'll be introduced to professional practice and undertake clinical placements in patient-facing environments. Later in the course you will specialise and put your knowledge into practice in primary and secondary healthcare settings.

In the final year 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 may not be guaranteed: please see page 4 for further information.

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.

Assessment methods

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

Delivery methods

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

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.

Compulsory 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
- Plus optional units

Year 4

- Research project or international placement
- Pharmacy management simulation
- Medicines optimisation in complex patients 2
- Global health and management
- Plus optional units

Extra costs

You will be required to pay for a Disclosure and Barring Service (DBS) check, at a cost of approximately £50. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

International Pharmacy degree with Integrated pre-registration year

In 2018 the University will be launching an International Pharmacy degree with Integrated pre-registration year. Please see the website for updates.*

Typical offer: AAB

Entry requirements

GCSE requirements

- GCSE Mathematics grade C or 4 plus GCSE English grade C or 4 (or equivalent from category B - see page 26).

A level and International Baccalaureate offer

- AAB including Chemistry and one other science or mathematics subject.
- 36 points overall and 6, 6, 5 in 3 Higher Level subjects including Chemistry and one other science or mathematics subject.

Preferred and excluded subjects

Your personal statement should demonstrate an understanding of the role of a pharmacist and the importance of National Health Service values. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

You will be required to obtain an Enhanced Disclosure and Barring Service check for this course – please see page 24 for details.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/pharma

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

This course is regulated by the Higher Education Funding Council for England

Physics

Top 10 for physics and astronomy in The Times and Sunday Times Good University Guide 2017

Our courses

- Mathematics and Physics - see page 96
- Physics - see page 97
- Physics with Astrophysics - see page 98

Physicists search for the universal principles underlying natural phenomena.

Explore the Universe from the nanoscale to the cosmological. 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.

Learning experience

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

Benefit from our well-equipped undergraduate teaching laboratories and access our specialist research laboratories, depending on the specialisation you choose, to carry out projects with research equipment and high-performance computation. Some projects also use international databases and links with observatories in the UK and around the world.

Graduate outcomes

A wealth of career opportunities are open to you as a physics graduate. You can go on to a career in a wide range of areas including 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.

Have you thought about...?

- Mathematical Sciences - see page 80
- Natural Sciences - see page 91
- Electronic Engineering with Space Science and Technology - see page 69



"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 with placement year

Mathematics and Physics

This course is accredited by the Institute of Physics.*

- GF13 | BSc (Hons) Three years
 FG31 | BSc (Hons) Four years with placement year
 FG32 | BSc (Hons) Four years with study year abroad
 FG3C | MSci (Hons) Four years
 39B2 | MSci (Hons) Five years with placement year
 385C | MSci (Hons) Five years with 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 sound mathematical and experimental expertise. You'll be able to grasp new concepts and apply them to a wide range of familiar and unfamiliar challenges.

Assessment methods

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

Delivery methods

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

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.

Placements

Apply your skills and knowledge to a year working full-time in a scientific or other professional organisation. This is an excellent opportunity to evaluate future career paths. It will broaden your experience and transferable skills, giving you a competitive edge when applying for graduate jobs. Recent employers include BAE Systems, CERN, Dyson, JP Morgan Chase & Co, Rolls-Royce and Samsung. Placement opportunities may not be guaranteed: please see page 4 for further information.

Study year 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 currently have links with universities in the United States, Australasia, Asia and Europe, including Binghampton University, National University Singapore, the University of Canterbury and the University of Helsinki.

Compulsory units

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

Year 2

- Algebra 2A
- Analysis 2A
- Ordinary differential equations and control
- Analysis 2B
- Vector calculus and partial differential equations
- Programming skills
- Quantum and atomics physics
- Thermal physics
- Electromagnetism 1
- Condensed matter physics 1
- Plus optional units

Year 3/4 BSc

- Final year project or Industry team project or Communicating physics project
- Self-directed learning
- Plus optional units

Year 3/4 MSci

- Metric spaces
- Mathematical methods 1
- Self-directed learning
- Simulation techniques
- Mathematical methods 2
- Computational physics B
- Electromagnetism 2
- Mathematical physics
- Plus optional units

Year 4/5 MSci

- Final year project
- Viscous fluid mechanics
- Quantum mechanics
- Elasticity
- Advanced quantum theory
- Plus optional units

Examples of some current optional units*

Contemporary physics, Quantum mechanics, General relativity, Complex analysis, Laser physics.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*AA including Mathematics and Physics with A* in Mathematics or Physics (or Further Mathematics if applicable).
- 36 points overall and 7, 6, 6 in 3 Higher Level subjects including Mathematics and Physics.

Preferred and excluded subjects

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/maths-physics

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

These courses are regulated by the Higher Education Funding Council for England

This course is accredited by the Institute of Physics.*

Physics

- F300 | BSc (Hons) Three years
- F301 | BSc (Hons) Four years with placement year
- F307 | BSc (Hons) Four years with study year abroad
- F303 | MPhys (Hons) Four years
- 3SAM | MPhys (Hons) Five years with placement year
- F312 | MPhys (Hons) Four years with study year abroad
- F313 | MPhys (Hons) Four years with research placement
- 02VD | MPhys (Hons) Five years with placement year and 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 the 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.

As a graduate, you will combine sound mathematical and experimental expertise. You'll be able to grasp new concepts and apply them to a wide range of familiar and unfamiliar challenges.

The Master of Physics (MPhys) degree gives you the opportunity to enhance and deepen your knowledge compared to BSc students, particularly in topics at the forefront of research. You'll study masters-level units and a major research project, preparing you for more academic or technical roles, postgraduate study or a career in research.

Assessment methods

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

Delivery methods

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

Contact time with staff*

In your first year, you should expect to spend at least 32% of your time in a lecture, seminar or practical/lab setting and 68% of the time in independent study. Your unit option choices will determine your future contact hours.

Placements

Apply your skills and knowledge to a year working full-time in a scientific or other professional organisation. This is an excellent opportunity to evaluate future career paths. It will broaden your experience and transferable skills, giving a competitive edge when applying for graduate jobs. Recent employers include BAE Systems, CERN, Dyson, JP Morgan Chase & Co, Rolls-Royce and Samsung. Placement opportunities may not be guaranteed: please see page 4 for further information.

Research Placements

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, 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 year 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 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.

Compulsory units

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

Year 3/4 BSc

- Final year project or Industry team project or Communicating physics project
- Problem-solving skills
- Plus optional units

Year 3/4 MPhys

- Quantum mechanics
- Electromagnetism 2
- MPhys project/placement preparation
- Computational physics A and/or Computational physics B and/or MPhys laboratory
- Plus optional units

Year 4/5 MPhys

- MPhys research project or MPhys research placement
- Mathematical physics
- Advanced problem solving
- Advanced quantum theory
- Nanoscience
- Photonics

Examples of some current optional units*

Contemporary physics, Fluid dynamics in physics and astrophysics, Laser physics, Galaxies and introduction to cosmology, General relativity, Medical physics.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*AA including Mathematics and Physics with A* in Mathematics or Physics (or Further Mathematics if applicable).
- 36 points overall with 7, 6, 6 in 3 Higher Level subjects including Mathematics and Physics.

Preferred and excluded subjects

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/phys

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

These courses are regulated by the Higher Education Funding Council for England

Physics with Astrophysics

This course is accredited by the Institute of Physics.*

- F314 | BSc (Hons) Three years
 F315 | BSc (Hons) Four years with placement year
 F316 | BSc (Hons) Four years with study year abroad
 F317 | MPhys (Hons) Four years
 2RT5 | MPhys (Hons) Five years with placement year
 F321 | MPhys (Hons) Four years with study year abroad
 F318 | MPhys (Hons) Four years with research placement
 F320 | MPhys (Hons) Five years with placement year and 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 extra solar 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 sound mathematical and experimental expertise. You'll be able to grasp new concepts and apply them to a wide range of familiar and unfamiliar challenges.

The Master of Physics (MPhys) degree gives you the opportunity to enhance and deepen your knowledge compared to BSc students, particularly in topics at the forefront of research. You'll study masters-level units and a major research project, preparing you for more technical roles, postgraduate study or a career in research.

Assessment methods

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

Delivery methods

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

Contact time with staff*

In your first year, you should expect to spend 34% of your time in a lecture, seminar or practical/lab setting and 66% of the time in independent study. Your unit option choices will determine your future contact hours.

Placements

Apply your skills and knowledge to a year working full-time in a scientific or other professional organisation. This is an excellent opportunity to evaluate future career paths. It will broaden your experience and transferable skills, giving a competitive edge when applying for graduate jobs. Recent employers include BAE Systems, CERN, Dyson, JP Morgan Chase & Co, Rolls-Royce and Samsung. Placement opportunities may not be guaranteed: please see page 4 for further information.

Research Placements

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, 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 year 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 currently have links with universities in the United States, Australasia, Asia and Europe, including Binghampton University, National University Singapore, the University of Canterbury and the University of Helsinki.

Compulsory units

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

Year 3/4 BSc

- Final year project or Industry team project or Communicating physics project
- Stars and stellar evolution
- Galaxies and introduction to cosmology
- Fluid dynamics in physics and astrophysics
- General relativity
- Plus optional units

Year 3/4 MPhys

- Quantum mechanics
- Electromagnetism 2
- General relativity
- MPhys project/placement preparation unit
- Stars and stellar evolution
- Galaxies and introduction to cosmology
- Fluid dynamics in physics and astrophysics
- Computational astrophysics and/or Computational physics B and/or MPhys laboratory
- Plus optional units

Year 4/5 MPhys

- MPhys research project or MPhys research placement
- Relativistic cosmology
- High energy astrophysics
- Advanced problem solving

Examples of some current optional units*

Laser physics, Medical physics, Superconductivity, Networks, Photonics, Nanoscience.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- A*AA including Mathematics and Physics with A* in Mathematics or Physics (or Further Mathematics if applicable).
- 36 points overall with 7, 6, 6 in 3 Higher Level subjects including Mathematics and Physics.

Preferred and excluded subjects

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/phys-astro

Admissions and Outreach:

admissions@bath.ac.uk
+44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Politics

Highly ranked in Politics in
The Complete University Guide 2017

Our courses

- Language and Politics - see page 100
- Politics and International Relations - see page 102
- Politics with Economics - see page 103

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.

Learning experience

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

Graduate outcomes

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.

Our graduates have worked for Deloitte, Morgan Stanley and HSBC. Many graduates have chosen further study to pursue an academic career.

Have you thought about...?

- International Development with Economics - see page 74
- International Management with Modern Languages - see page 39
- Modern Languages and European Studies - see page 76



"In two of my units, Contemporary Politics of the Middle East and Contemporary Security Challenges in Asia, the lecturer invites class Skype discussions with people who actually live in the countries we study."

Matt Fleckney, BSc Politics and International Relations

Language and Politics

Full degree listing on page 101

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.

Compulsory 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+ 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) and Unilever (Italy).

Placement opportunities may not be guaranteed: please see page 4 for further information.

Assessment methods

- Coursework
- Dissertation
- Essay
- Oral assessment
- Seminar
- Written examination

Delivery methods

- Lectures
- Seminars
- Tutorials
- Practical sessions

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 the table at the bottom of page 101 for course-specific information about contact time in your first year. Your unit options will determine your future contact hours.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAB

Entry requirements

BA (Hons) French and Politics

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAB including A in French.
- 36 points overall and 6, 6, 5 in 3 Higher Level subjects including 6 in French.

BA (Hons) German and Politics

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAB including A in German.
- 36 points overall and 6, 6, 5 in 3 Higher Level subjects including 6 in German.

BA (Hons) Italian *ab initio* and Politics

GCSE requirements

- GCSE in a foreign language at grade A or 7 plus GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAB in 3 A level subjects.
- 36 points overall and 6, 6, 5 in 3 Higher Level subjects.

BA (Hons) Spanish and Politics

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAB including A in Spanish.
- 36 points overall and 6, 6, 5 in 3 Higher Level subjects including 6 in Spanish.

Preferred and excluded subjects (all degrees)

A level General Studies will not be considered.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/mod-lang-pol

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

French and Politics

RL12 | BA (Hons) 4 Years with year abroad

Compulsory units

Year 1

- France and the Revolution(s): 1789-1968
- French written and spoken language 1A
- Introduction to comparative politics
- Introduction to politics: theory and analysis
- French written and spoken language 1B
- 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 2A
- Research design and methods
- Political theory
- French written and spoken language 2B
- Plus optional units

Year 3/4

- Year abroad

Year 4/5

- Politics dissertation
- French written and spoken language 3A
- French written and spoken language 3B
- Plus optional units

Examples of some current optional units* Culture and national identity, Europe in global politics, Libert , Egalit , Fraternit  - perception(s) et r alit (s) dans la soci t  fran aise, The rise of the extreme right: from the margins to the mainstream, Ideas about 'terrorism'.

German and Politics

RL22 | BA (Hons) 4 Years with year abroad

Compulsory units

Year 1

- Deutschland 1871 bis 1989
- German written and spoken language 1A
- Introduction to comparative politics
- Introduction to politics: theory and analysis
- German written and spoken language 1B
- Introduction to international relations
- Plus optional units

Year 2

- Die DDR und das vereinigte Deutschland
- German written and spoken language 2A
- Research design and methods
- Political theory
- German written and spoken language 2B
- Plus optional units

Year 3/4

- Year abroad

Year 4/5

- Politics dissertation
- German written and spoken language 3A
- German written and spoken language 3B
- Plus optional units

Examples of some current optional units* Culture and national identity, Europe in global politics, The rise of the extreme right: from the margins to the mainstream, Ideas about 'terrorism', German national option G9: Die Massenmedien in der Bundesrepublik Deutschland und Gro britannien.

Italian *ab initio* and Politics

RL23 | BA (Hons) 4 Years with year abroad

Compulsory units

Year 1

- The making and shaping of a new nation-state: Italy 1815-1945
- Italian written and spoken language 1A (*ab initio*)
- Introduction to comparative politics
- Introduction to politics: theory and analysis
- Italian written and spoken language 1B (*ab initio*)
- Introduction to international relations
- Plus optional units

Year 2

- Italy since 1945: politics, culture and society
- Italian written and spoken language 2A
- Research design and methods
- Political theory
- Italian written and spoken language 2B
- Plus optional units

Year 3/4

- Year abroad

Year 4/5

- Politics dissertation
- Italian written and spoken language 3A
- Italian written and spoken language 3B
- Plus optional units

Examples of some current optional units* Foreign policy-making and its analysis, Conflict, security and international development, Italian national option IT9: organised crime and democracy in Italy, The rise of the extreme right: from the margins to the mainstream, Italian national option IT11: Political terrorism and its legacy in Italy, Italian politics and society II: the Berlusconi years (1994-2012).

Spanish and Politics

RL42 | BA (Hons) 4 Years with year abroad

Compulsory units

Year 1

- Spain from 1898 to the present
- Spanish written and spoken language 1A
- Introduction to comparative politics
- Introduction to politics: theory and analysis
- Spanish written and spoken language 1B
- Introduction to international relations
- Plus optional units

Year 2

- Introduction to 20th and 21st century Latin America
- Spanish written and spoken language 2A
- Research design and methods
- Political theory
- Spanish written and spoken language 2B
- Plus optional units

Year 3/4

- Year abroad

Year 4/5

- Politics dissertation
- Spanish written and spoken language 3A
- Spanish written and spoken language 3B
- Plus optional units

Examples of some current optional units* Europe in global politics, In the shadow of Franco: repression, denial and memory, The rise of the extreme right: from the margins to the mainstream, Ideas about 'terrorism', Rebellion and utopia in Latin American popular struggles.

Contact time in first year of study

Language	Course code	Time in lecture/seminar setting	Independent study
French and Politics	RL12	19%	81%
German and Politics	RL22	19%	81%
Italian <i>ab initio</i> and Politics	RL23	21%	79%
Spanish and Politics	RL42	19%	81%

Politics and International Relations

L291 | BSc (Hons) Three years

L290 | BSc (Hons) Four years with placement year

Gain a solid grounding in politics, whilst developing your understanding of global developments, ideology and international history.

In 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.

Assessment methods

- Coursework
- Dissertation
- Essay
- Seminar
- Written examination

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials

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.

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 may not be guaranteed: please see page 4 for further information.

Compulsory 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

Year 3/4

- Politics dissertation
- Plus optional units

Examples of some 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.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA

Entry requirements

GCSE requirements

- GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAA in 3 A level subjects.
- 36 points overall and 6, 6, 6 in 3 Higher Level subjects.

Preferred and excluded subjects

Preference for applicants who provide evidence of a strong interest in politics and/or international relations.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/pol-int-relations

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

These courses are regulated by the Higher Education Funding Council for England

Politics with Economics

L2L1 | BSc (Hons) Three years

L2LC | BSc (Hons) Four years with 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.

Assessment methods

- Attendance
- Coursework
- Dissertation
- Essay
- Seminar
- Written examination

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials

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.

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 may not be guaranteed: please see page 4 for further information.

Compulsory 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

Year 3/4

- Politics dissertation
- Plus optional units

Examples of some 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.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAA

Entry requirements

GCSE requirements

- GCSE Mathematics grade A or 7 plus GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAA in 3 A level subjects.
- 36 points overall and 6, 6, 6 in 3 Higher Level subjects.

Preferred and excluded subjects

Preference for applicants who provide evidence of a strong interest in politics.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/pol-econ

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

These courses are regulated by the Higher Education Funding Council for England

Psychology

Joint 1st for Course Satisfaction for Psychology in The Guardian University Guide 2017

2nd for Psychology in The Guardian University Guide 2017

Our courses

- Psychology - see page 105

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, cyberpsychology and neuroeconomics.

The innovative research of our academic staff informs our teaching. This provides you with exposure to an active research environment.

Learning experience

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.

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

Graduate outcomes

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. Our graduates have gone on to work for the NHS Foundation Trust, Great Ormond Street Hospital, The Priory and Think Action.

Much professional work in psychology requires further specialist training. Over half of our graduates go on to specialist graduate training in psychology.

Have you thought about...?

- Education with Psychology - see page 64
- Social Sciences - see page 110
- Sport and Exercise Science - see page 115



Main image: Student demonstrating Bandura's classic experiments in Social Learning.



"Psychology at Bath offers a great opportunity to really learn and experience professional psychology at a variety of world-renowned institutions and organisations, which is a valuable addition to the degree."

Michelle Tsang, BSc Psychology

Psychology

- C801 | BSc (Hons) Three years
 C800 | BSc (Hons) Four years with placement year
 8C82 | MSci (Hons) Four years
 8C92 | MSci (Hons) Five years with placement year

These psychology courses are accredited by the British Psychological Society.*

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 masters (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 bachelors graduates in the job market. You will be well prepared for further study.

Assessment methods

- Coursework
- Dissertation
- Essay
- Multiple choice examination
- Oral assessment
- Written examination
- Other

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials
- Practical sessions

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.

Placements

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 may not be guaranteed: please see page 4 for further information.

Compulsory units

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
- Quantitative methods
- Research methods and design 2
- Developmental psychology
- Research project
- Plus optional units

Year 3/4

- Psychology dissertation
- Plus optional units

Year 4/5

MSci route

- Advanced social psychology
- Advanced cognitive psychology
- Advanced health and clinical psychology
- Advanced research methods
- Professional development
- Dissertation
- Plus optional units

Examples of some current optional units*

Clinical psychology, Cyberpsychology, Developmental psychopathology, Contemporary educational psychology, Forensic psychology.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: A*AA

Entry requirements

GCSE requirements

- GCSE Mathematics grade B or 6 plus GCSE English grade B or 6 (or equivalent from category A - see page 26).

A level and International Baccalaureate offer

- A*AA in 3 A level subjects.
- 36 points overall and 7, 6, 6 in 3 Higher Level subjects.

Preferred and excluded subjects

Preference for a combination of scientific or numerical subjects and essay-based humanities or social sciences. Preferred subjects include: Psychology, Sociology, Biology, Chemistry, Physics, Geography, Mathematics, Statistics, Anthropology, Economics, Politics/Government and Politics, Philosophy, Geology, History, English Literature and English Language. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh). Offers can include Mathematics or Further Mathematics but not both.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about accreditation, entry requirements, units and contact hours visit:

go.bath.ac.uk/psych

Admissions and Outreach:

admissions@bath.ac.uk
 +44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Social work

2nd for Social Work in The Times and Sunday Times Good University Guide 2017

4th for Social Work in The Guardian University Guide 2017

Our courses

- Social Work and Applied Social Studies - see page 107

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 about 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.

Learning experience

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.

Graduate outcomes

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.

Our graduates have gone on to work for employers including the NHS, Foster Care Associates, Trauma Recovery Centre, Sirona Care & Health and Somerset County Council.

Have you thought about...?

- Addictions Counselling - see page 58
- Education with Psychology - see page 64
- Social Policy - see page 109



"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

This course is approved by the Health and Care Professions Council.*

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 social work with children, families, adults and in mental health settings. You will also develop analytical, problem-based learning and transferable skills.

The course will prepare you for professional social work or further study.

Assessment methods

- Attendance
- Coursework
- Essay
- Placement
- Portfolio
- Seminar
- Written examination

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials
- Practical sessions

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.

Compulsory 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

Extra costs

You will be required to pay for a Disclosure and Barring Service (DBS) check, at a cost of approximately £50. 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: www.nhsbsa.nhs.uk. Please contact spsapplicants@bath.ac.uk if you need further information.

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: ABB-BBB

Entry requirements

GCSE requirements

- GCSE Mathematics grade C or 4 plus GCSE English grade C or 4 (or IELTS 7.0 with 7.0 in all components, or equivalent).

A level and International Baccalaureate offer

- ABB-BBB in 3 A level subjects.
- 34 points overall and 5, 5, 5 in 3 Higher Level subjects.

Preferred and excluded subjects

Preference for at least one humanities subject. Your personal statement must demonstrate personal, volunteering or employment experiences relevant to social work or social care. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

If you are a student who will require a Tier 4 visa you will not be able to register onto this course.

You will be required to obtain an Enhanced Disclosure and Barring Service check for this course - please see page 24 for details.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about approval, entry requirements, units and contact hours visit:

go.bath.ac.uk/soc-work-applied

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

This course is regulated by the Higher Education Funding Council for England

Sociology and social policy

Ranked 3rd for Sociology in The Guardian University Guide 2017

Top 4 for career after six months for Sociology in The Guardian University Guide 2017

Top 10 for Social Policy and Administration in The Guardian University Guide 2017

Our courses

- Social Policy - see page 109
- Social Sciences - see page 110
- Sociology - see page 111
- Sociology and Social Policy - see page 112

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 experimental investigation and critical analysis. This allows you to understand people as they adapt and change to order and disorder.

You'll have room for creativity, as you actively seek solutions to social problems, rather than just learning historical or political content. You'll learn how to hold those in power to account.

We have specialism in applied sociology, European and international social policy. You'll be able to explore issues such as climate change, child wellbeing, the role of technology in society, social mobility, the gender pay gap and criminal justice.

Learning experience

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

Graduate outcomes

Those who study our social sciences degrees have excellent career options. Our graduates have worked as social and policy researchers, social carers, journalists, accountants and in a variety of business related roles. They have gone on to work for the Ministry of Defence, Sirona Care & Health, Healthcare Community Interest Company and Lloyds Banking Group.

Have you thought about...?

- Education with Psychology - see page 64
- International Development with Economics - see page 74
- Politics and International Relations - see page 102



"Studying Sociology and Social Policy at Bath has given me the best possible footing for progressing into work."

Rosie Fisher, BSc Sociology and Social Policy



Social Policy

L404 | BSc (Hons) Three years

L405 | BSc (Hons) Four years with placement year

Develop an interdisciplinary approach to the study of how governments and society 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, economics, psychology and politics.

In your final year you will undertake a dissertation.

Assessment methods

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

Delivery methods

- Lectures
- Seminars
- Workshops
- Laboratory sessions

Contact time with staff*

In your first year, you should expect to spend typically 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.

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, House of Commons, the Singapore Government, Sense, Carbon Trust and The Body Shop.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory units

Year 1

- 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
- 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

Year 3/4

- Social policy dissertation
- Social protection and welfare reform
- Policy evaluation
- Plus optional units

Examples of some current optional units*

Mind and behaviour, Thinking and working cross-culturally: Introduction to social analysis of development, Science, technology and society, Sociology of criminal justice policy, Ideas about 'terrorism'.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAB

Entry requirements

GCSE requirements

- GCSE Mathematics grade C or 4 plus GCSE English grade C or 4 (or equivalent from category B - see page 26).

A level and International Baccalaureate offer

- AAB in 3 A level subjects.
- 35 points overall and 6, 6, 5 in 3 Higher Level subjects.

Preferred and excluded subjects

Preference for at least one humanities subject such as: History, Religious Studies, Geography, Sociology, Politics, Government and Politics, Philosophy or Psychology.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/soc-pol

Admissions and Outreach:

admissions@bath.ac.uk
+44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Social Sciences

L305 | BSc (Hons) Three years

L306 | BSc (Hons) Four years with placement year

Direct your own learning with a broad-based training in the social sciences.

This course offers you a broad-based training in the social sciences. It will appeal if you are interested in the social sciences in general and do not wish to specialise in one discipline.

You will take an interdisciplinary approach to the analysis of social issues.

In Year 1 you will be introduced to social policy, sociology, economics, psychology, politics and research methods.

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.

Assessment methods

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

Delivery methods

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

Contact time with staff*

In your first year, you should expect to spend typically 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.

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 and 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 and Disney.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory 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

Year 3/4

- Social policy dissertation
- Plus optional units

Examples of some current optional units*

Mind and behaviour, Thinking and working cross-culturally: Introduction to social analysis of development, Science, technology and society, Ideas about 'terrorism', Sexual violence: explanations, responses and debates.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: ABB

Entry requirements

GCSE requirements

- GCSE Mathematics grade C or 4 plus GCSE English grade C or 4 (or equivalent from category B - see page 26).

A level and International Baccalaureate offer

- ABB in 3 A level subjects.
- 35 points overall and 6, 5, 5 in 3 Higher Level subjects.

Preferred and excluded subjects

Preference for at least one humanities subject such as: History, Religious Studies, Geography, Sociology, Politics, Government and Politics, Philosophy or Psychology.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/soc-sci

Admissions and Outreach:

admissions@bath.ac.uk
+44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Sociology

L300 | BSc (Hons) Three years

L304 | BSc (Hons) Four years with 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 or other topics.

This course will appeal if you want to understand the social forces 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. This will enable you will develop an appreciation of sociological concepts and theories.

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.

Assessment methods

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

Delivery methods

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

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.

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 and 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 and Microsoft.

Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory units

Year 1

- Understanding society: Britain in global context
- Social problems and social policy
- Academic and research skills 1: introduction to qualitative methods
- Classical sociological theory
- Social policy, welfare and the state
- Academic and research skills 2: introduction to quantitative methods
- Plus optional units

Year 2

- Qualitative social research methods
- Contemporary sociological theory
- Philosophy of the social sciences
- Quantitative data analysis
- Plus optional units

Year 3/4

- Sociology dissertation
- Power in society
- Plus optional units

Examples of some current optional units*

Mind and behaviour, Thinking and working cross-culturally: Introduction to social analysis of development, Science, technology and society, Ideas about 'terrorism', Sexual violence: explanations, responses and debates.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAB

Entry requirements

GCSE requirements

- GCSE Mathematics grade C or 4 plus GCSE English grade C or 4 (or equivalent from category B - see page 26).

A level and International Baccalaureate offer

- AAB in 3 A level subjects.
- 35 points overall and 6, 6, 5 in 3 Higher Level subjects.

Preferred and excluded subjects

Preference for at least one humanities subject such as: History, Religious Studies, Geography, Sociology, Politics, Government and Politics, Philosophy or Psychology.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/sociology

Admissions and Outreach:

admissions@bath.ac.uk
+44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Sociology and Social Policy

LL34 | BSc (Hons) Three years

LL43 | BSc (Hons) Four years with placement year

Develop your knowledge of sociology 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 take an interdisciplinary approach to the analysis of social issues.

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.

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 economics, psychology and politics.

In the final year you will write a dissertation and choose from optional units.

Assessment methods

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

Delivery methods

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

Contact time with staff*

In your first year, you should expect to spend at least 20% of your time in a lecture or seminar setting and 80% of the time in independent study. In future years the time spent on learning activities may vary depending on your options.

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 and 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 may not be guaranteed: please see page 4 for further information.

Compulsory 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

Year 3/4

- Social policy dissertation
- Power in society
- Policy evaluation
- Plus optional units

Examples of some current optional units*

Mind and behaviour, Thinking and working cross-culturally: Introduction to social analysis of development, Science, technology and society, Sociology of criminal justice policy, Ideas about 'terrorism'.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAB

Entry requirements

GCSE requirements

- GCSE Mathematics grade C or 4 plus GCSE English grade C or 4 (or equivalent from category B - see page 26).

A level and International Baccalaureate offer

- AAB in 3 A level subjects.
- 35 points overall and 6, 6, 5 in 3 Higher Level subjects.

Preferred and excluded subjects

Preference for at least one humanities subject such as: History, Religious Studies, Geography, Sociology, Politics, Government and Politics, Philosophy or Psychology.

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/socio-policy

Admissions and Outreach:

admissions@bath.ac.uk
+44 (0)1225 383019

These courses are regulated by the Higher Education Funding Council for England

Sport-related studies

3rd for Sport Science in The Times and Sunday Times Good University Guide 2017

Top 4 for Sports Science in The Complete University Guide 2017

Top 10 ranking for career after six months for Sports Science in The Guardian University Guide 2017

Our courses

- Health and Exercise Science - see page 114
- Sport and Exercise Science - see page 115
- Sport and Social Sciences - see page 116
- Sport (Sports Performance) - see page 117

The study of sport and physical activity explores their impact upon modern society and how the body works and responds to exercise during sport.

Modern sport is a field that continues to evolve from an academic, coaching, teaching and performance perspective.

The study of sport incorporates many other academic studies. This includes physiology, psychology, anatomy, engineering, chemistry, politics, management, education, sociology and cultural studies.

Our courses are flexible to cover current issues within the fields of sport, exercise, leisure and physical activity.

Learning experience

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

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.

Graduate outcomes

Graduates from our sports 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 Deloitte, KPMG, Move GB, Bristol City Community Trust, Great Ormond Street Hospital, IOC, British Athletics and The Rugby Players' Association.

Some of our students choose postgraduate study.

Have you thought about...?

- Biomedical Sciences - see page 35
- Education with Psychology - see page 64
- Social Policy - see page 109



"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."

Annalise Depper, BA Sport and Social Sciences

Health and Exercise Science

- C610 | BSc (Hons) Three years
 C611 | BSc (Hons) Four years with placement year
 C612 | MSci (Hons) Four years
 C613 | MSci (Hons) Five years with placement year

Understand the role of physical activity and exercise medicine on population health and wellbeing. Prepare yourself for a range of careers in the health sector.

This degree combines science, social science and public health perspectives. It is a flexible course, combining the study of the determinants of health from scientific, social and policy perspectives.

You'll investigate the impact of physical activity, diet and health behaviours on population health. You will study the different approaches to promoting health and wellbeing. The course will provide you with a broad skill set in science and research techniques.

The first year will introduce you to the study of core social science and research topics. You'll study public health, physiology, sociology, psychology and biomechanics. In Year 2 you'll specialise in evidence-based policy, psychology, sports medicine, health education and physiology. In your final undergraduate year you will undertake a research project. This could be in public health, nutrition, physiology, sociology, psychology or an interdisciplinary approach.

The undergraduate masters (MSci) equips you with the practical and analytical skills to conduct independent research. This can be into an area that interests you most. This advanced qualification puts you ahead of other bachelors graduates in the job market. You will be well prepared for doctoral level (PhD) research work.

Assessment methods

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

Delivery methods

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

Contact time with staff*

In your first year, you should expect to spend 22% of your time in a lecture, seminar or practical/lab setting and 78% of the time in independent study. Your unit option choices will determine your future contact hours.

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: Harbour Sports Community Physical Activity project, Healthy Lifestyles Team (Bath Council), Army Research Training Division, schools, government organisations and local council public health teams. Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory units

Year 1

- Human physiology
- Functional anatomy
- Introduction to sport and exercise psychology
- Introduction to research design and statistics
- Introduction to public health
- Introduction to human biomechanics
- Professional development
- Research design for the social sciences
- Introduction to the social study of health
- Plus optional units

Year 2

- Physiology of physical activity
- Epidemiology in public health
- Evidence-based policy and practice
- Psychology of exercise and health
- Clinical and functional assessment tools
- Critical skills for health practitioners
- Advancing research design and statistics
- Plus optional units

Year 3/4

- Contemporary public health issues
- Physiology of exercise and health
- Exercise prescription
- Health technologies (BSc route only)
- Research project (BSc route only)
- Applying psychology to Health and Exercise Science (MSci route only)
- Research design and project preparation (MSci route only)
- Plus optional units

Year 4/5

- Disability sport and exercise
- Rehabilitation medicine
- Advanced health policy
- Health and Exercise Science across the lifespan
- Research project
- Plus optional units

Examples of some current optional units*

Nutrition and health, Introduction to sport and exercise medicine, Nutrition and metabolism.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAB or A*BB or A*AC

Entry requirements

GCSE requirements

- GCSE Mathematics and Science at grade C or 4 plus GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAB or A*BB or A*AC in 3 A level subjects.
- 36 points overall and 6, 6, 5 in 3 Higher Level subjects.

Preferred and excluded subjects

Preference for applicants with a strong GCSE profile include B or 6 in Mathematics and 2 sciences. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/phys-health

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

These courses are regulated by the Higher Education Funding Council for England

Sport and Exercise Science

- BC17 | BSc (Hons) Three years
 BCC7 | BSc (Hons) Four years with placement year
 C606 | BSc (Hons) Four years with study year abroad
 C609 | BSc (Hons) Four years with combined placement and study year abroad
 C605 | MSci (Hons) Four years
 C604 | MSci (Hons) Five years with placement year
 C607 | MSci (Hons) Five years with study year abroad
 C608 | MSci (Hons) Five years with combined placement and study year abroad

Develop your knowledge of biomechanics, physiology and psychology. You'll understand how humans function in sport, physical activity and health environments.

In this degree you'll focus on the study of biomechanics, physiology and psychology. You'll apply your knowledge of these subjects to sports performance and exercise participation. You will understand of the relevance of sport and exercise science to current practice. The course ensures that you will develop a broad skill set.

The first year will introduce you to basic science, sport and exercise science disciplines. You will also learn about research methods and techniques. Your second year will advance your study of these disciplines and further your skills. The final undergraduate year will allow you to specialise with your chosen discipline. You will also undertake your own research project.

The undergraduate masters (MSci) equips you with the practical and analytical skills to conduct independent research. This can be into an area that interests you most. This advanced qualification puts you ahead of other bachelors graduates in the job market. This is also a financially attractive route, as you will be able to apply for an undergraduate student loan for the duration of your studies.

Placements

The placement is an opportunity to gain real-life 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 entering the job market.

Recent placements include: South Australian Sports Institute, New South Wales Institute of Sports, Army Research Training Division, and Sussex County Cricket Club. Placement opportunities may not be guaranteed: please see page 4 for further information.

Study year abroad

You will have the opportunity 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.

Compulsory units

Year 1

- Human physiology
- Functional anatomy
- Introduction to sport and exercise psychology
- Introduction to research design and statistics
- Biochemistry
- Introduction to human biomechanics
- Professional development
- Plus optional units

Year 2

- Advancing research design and statistics
- Exercise physiology
- Psychological dynamics of sport
- Introduction to sport medicine
- Biomechanics of human movement
- Psychology of exercise and health
- Performance assessment
- Motor control and learning

Year 3/4

- Research project
- Contemporary research issues in sport and exercise science
- Interdisciplinary study

Year 4/5

- MSci units**
- Research project
 - Disability sport and exercise
 - Interdisciplinary study

Examples of some current optional units*

The coaching environment, Nutrition and metabolism, Coaching in the high performance environment, Introduction to strength and conditioning, Marketing.

Extra costs

You may be required to pay for a Disclosure and Barring Service (DBS) check, at a cost of approximately £50, depending on the nature of the placement(s) you undertake. For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Assessment methods

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

Delivery methods

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

Contact time with staff*

In your first year, you should expect to spend 24% of your time in a lecture, seminar or practical/lab setting and 76% of the time in independent study. Your unit option choices will determine your future contact hours.

Typical offer: AAA

Entry requirements

GCSE requirements

- GCSE Mathematics and Science at grade C or 4 plus GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAA including at least one science subject.
- 36 points overall and 6, 6, 6 in 3 Higher Level subjects including at least one science subject.

Preferred and excluded subjects

Preference for applicants with a strong GCSE profile including B or 6 in Mathematics and 2 sciences. Psychology and Physical Education A levels may be accepted in place of a science A level when taken together. A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/sport-ex-sci

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

These courses are regulated by the Higher Education Funding Council for England

Sport and Social Sciences

CX63 | BA (Hons) Three years

CX6H | BA (Hons) Four years with placement year

Gain a critical appreciation of sport, health and physical activity in contemporary society. Prepare yourself for a variety of careers in the sports industry.

This degree is designed for those who wish to understand the relevance of sport, health and physical activity within society.

In the course, you'll reflect on the relationships between the body, sport, health, leisure and society. You will explore how society impacts on the production and consumption of sport, physical activity and the leisure industry in the UK and globally.

You will become proficient in conducting research and further your knowledge of the sports industry.

The first year will introduce you to key social science theories and research methods. You will build on this during the second year and select from a range of optional units. Your final year will cover advanced topics in sport and the social sciences. You will write a dissertation and refine the topics you wish to specialise in.

Assessment methods

- Coursework
- Dissertation
- Oral assessment
- Portfolio
- Written examination

Delivery methods

- Lectures
- Seminars
- Workshops
- Tutorials
- Practical sessions

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.

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'll have the opportunity to take a placement in all aspects of the sports industry, coaching and teaching.

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, Event360, Harbour Sport (New Zealand), Let Me Play, London Organising Committee of the Olympic and Paralympic Games, Millfield School, Surfers Against Sewage and Rostrevor College (Australia). Placement opportunities may not be guaranteed: please see page 4 for further information.

Compulsory units

Year 1

- Introduction to sports pedagogy
- Research design for the social sciences
- Historical and contemporary issues in sport, physical activity and the body
- Sport and the social sciences: a critical introduction
- Sport and social theory
- Introduction to sport policy, management and development
- Ethics, sport and the body
- Physical education, policy and practice
- Introduction to sport and exercise psychology
- The politics of sport

Year 2

- Critical and applied social sciences research
- Professional identity and practice
- Community-based professional practice
- Plus optional units

Year 3/4

- Dissertation research
- Advanced seminar in sport, health and the social sciences
- Plus optional units

Examples of some current optional units*

Applied pedagogy and practice: coaching, Applied pedagogy and practice: physical education, Advanced issues in physical activity, health and the body, Advanced issues in sports management, Advanced issues in sport policy and development.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: AAB or A*BB or A*AC

Entry requirements

GCSE requirements

- GCSE Mathematics grade C or 4 plus GCSE English grade C or 4 (or equivalent from category C - see page 26).

A level and International Baccalaureate offer

- AAB or A*BB or A*AC in 3 A levels.
- 36 points overall and 6, 6, 5 in 3 Higher Level subjects.

Preferred and excluded subjects

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/sport-soc-sci

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

These courses are regulated by the Higher Education Funding Council for England

Sport (Sports Performance)

C601 | FdSc Two years

Assessment methods

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

Delivery methods

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

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.

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 that are valued by employers.

Taking part in our sports

We have nine priority sports in which a Head Coach is employed. Each priority sport has a separate trial and confirmation process at the beginning of the academic year. 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 (see page 13).

Compulsory 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

BSc (Hons) Sport (Sports Performance) (Work-based Learning) 1 year full-time

- Dissertation
- Research methods
- Managing the performance athlete 1
- Sports performance research seminar
- Managing the performance athlete 2

Examples of some current optional units*

Optional units on BSc route: Coaching and pedagogy 1: advanced coaching concepts, Sports physiology 1: training practices, Sports policy 1: philosophy and practice, Coaching and pedagogy 2: practical sports coaching, Sports physiology 2: contemporary issues in specific populations, Sports policy 2: managing sport in the global environment.

Extra costs

For advice on budgeting and more information about day-to-day costs go to pages 22-23.

Typical offer: CCC

Entry requirements

GCSE requirements

- GCSE Mathematics grade C or 4 plus GCSE English grade C or 4 (or IELTS 6.0 with 5.5 in all components, or equivalent).

A level and International Baccalaureate offer

- CCC in three A level subjects.
- 28 points overall.

Preferred and excluded subjects

A level General Studies will not be considered. We may be unable to consider an A level in your own language (unless it is English or Welsh).

If you are a student who will require a Tier 4 visa you will not be able to register onto this course.

For further guidance on our requirements, please see pages 24-26. Contact Admissions and Outreach if you have any questions about your qualifications.

Further information and contact details

*For more information about entry requirements, units and contact hours visit:

go.bath.ac.uk/sports-perf

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

These courses are regulated by the Higher Education Funding Council for England

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

A frequent National Express service operates from London Victoria and London Heathrow Airport to Bath.



By bus

There are a number of frequent bus services available. The U1, U18, X18, U10, 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

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.

Thursday 15 June 2017

Friday 16 June 2017

Saturday 16 September 2017

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

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

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



Contact Us

admissions@bath.ac.uk
 +44 (0)1225 383019

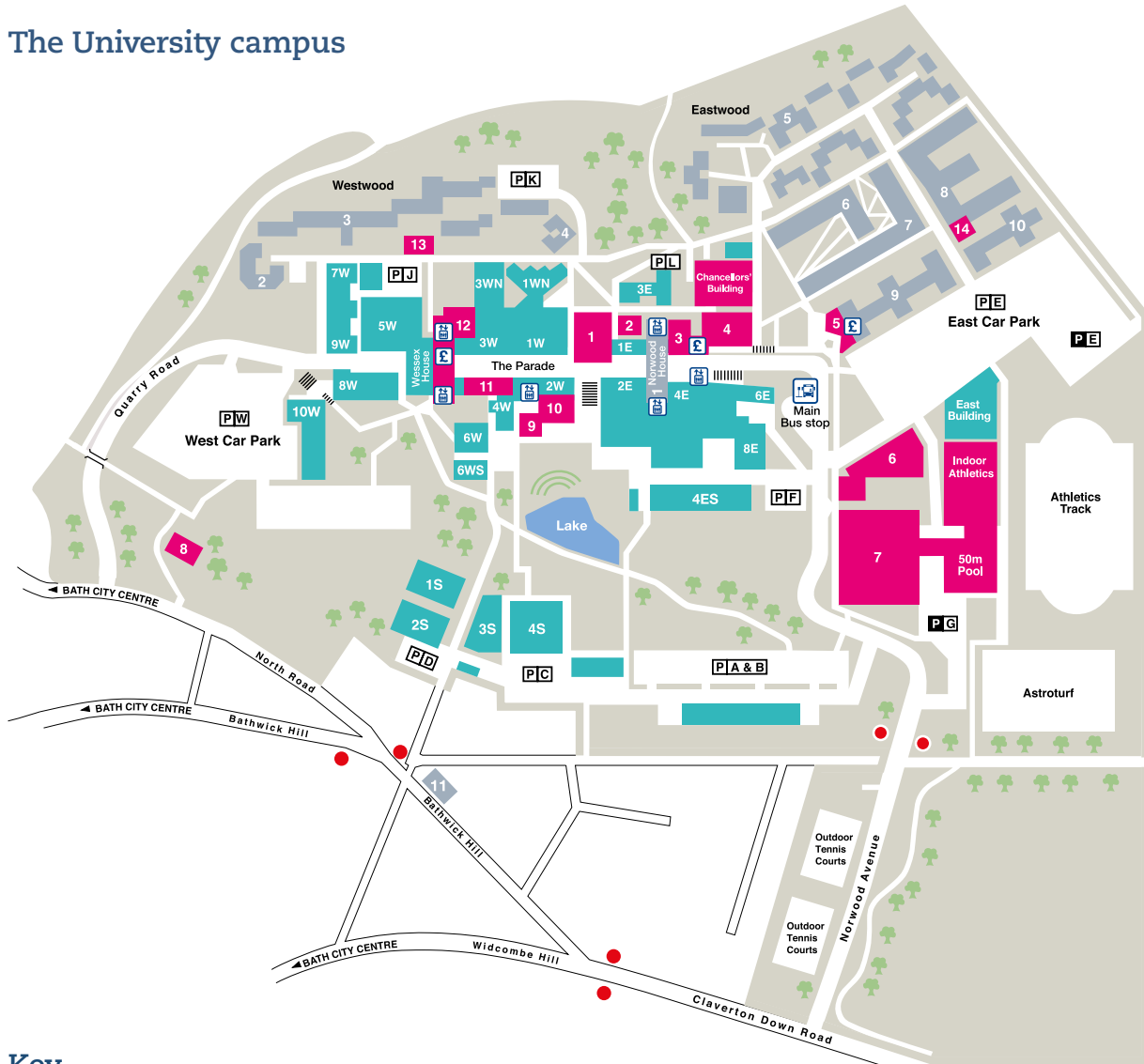
University of Bath
 Claverton Down
 Bath
 BA2 7AY
 United Kingdom



"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 Court
- 3 Westwood
- 4 Brendon Court
- 5 Eastwood
- 6 Marlborough Court
- 7 Solsbury Court
- 8 Woodland Court
- 9 & 10 The Quads
- 11 Osborne House

- P** Car Parks - public
- P** Car Parks - permit holders only
- Bus stops
- Lifts
- Cashpoints

Departments

- 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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Open Days

Thursday 15 June 2017

Friday 16 June 2017

Saturday 16 September 2017

Further dates may be added, see:
go.bath.ac.uk/visit-opendays



UNIVERSITY OF
BATH

go.bath.ac.uk/study2018