

Imperial College  
London



# UNDERGRADUATE PROSPECTUS

—  
2022 ENTRY

**8TH BEST  
UNIVERSITY  
IN THE WORLD**

QS World University Rankings 2021



**NUMBER ONE FOR  
GRADUATE EMPLOYABILITY**

The Guardian University Guide 2021

**BURSARIES WORTH  
UP TO £5,000 PER YEAR**

for Home students through the Imperial  
Bursary scheme (see page 34)

## WHAT'S IMPERIAL REALLY LIKE?

Who best to tell you than some of the students already studying here. Follow their stories throughout this prospectus to find out more about Imperial in their words – from a typical week to life in halls.

### Introducing...



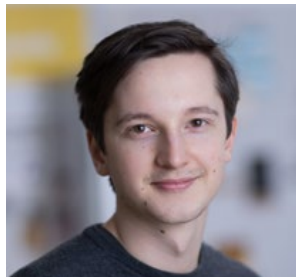
ABEKU, MEDICINE



ANASTASIA,  
BIOCHEMISTRY



AYOMIDE, MEDICINE



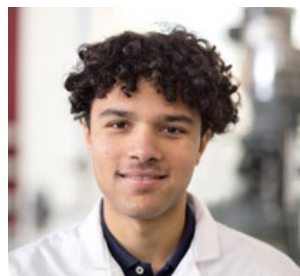
CAI, MOLECULAR  
BIOENGINEERING



DEBORAH, MOLECULAR  
BIOENGINEERING



EMILIA, GEOLOGY



GIOVANNI, MECHANICAL  
ENGINEERING



JASMIN, MATHEMATICS



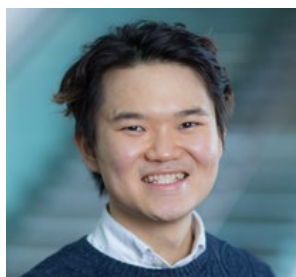
JESSICA, DESIGN  
ENGINEERING



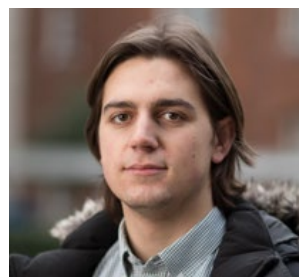
KARL, ELECTRONIC AND  
INFORMATION ENGINEERING



LEAH, MOLECULAR  
BIOENGINEERING



MAX, MECHANICAL  
ENGINEERING



PATRICK, BIOMEDICAL  
ENGINEERING



ZAHRA, CHEMICAL  
ENGINEERING

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### COVID-19

These are unprecedented times for us all. This prospectus presents information about undergraduate study at Imperial for 2022–2023, as it would operate under normal circumstances. We may have to make changes should restrictions still be in place as a result of COVID-19. Please keep an eye on our website for information about potential changes to our courses and teaching delivery.

[www.imperial.ac.uk/study/covid-19](http://www.imperial.ac.uk/study/covid-19)



# WELCOME TO IMPERIAL

As the UK's only university focusing entirely on science, engineering, medicine and business, Imperial College London is truly unique.

Around the world, our name means innovation, excellence and employability.

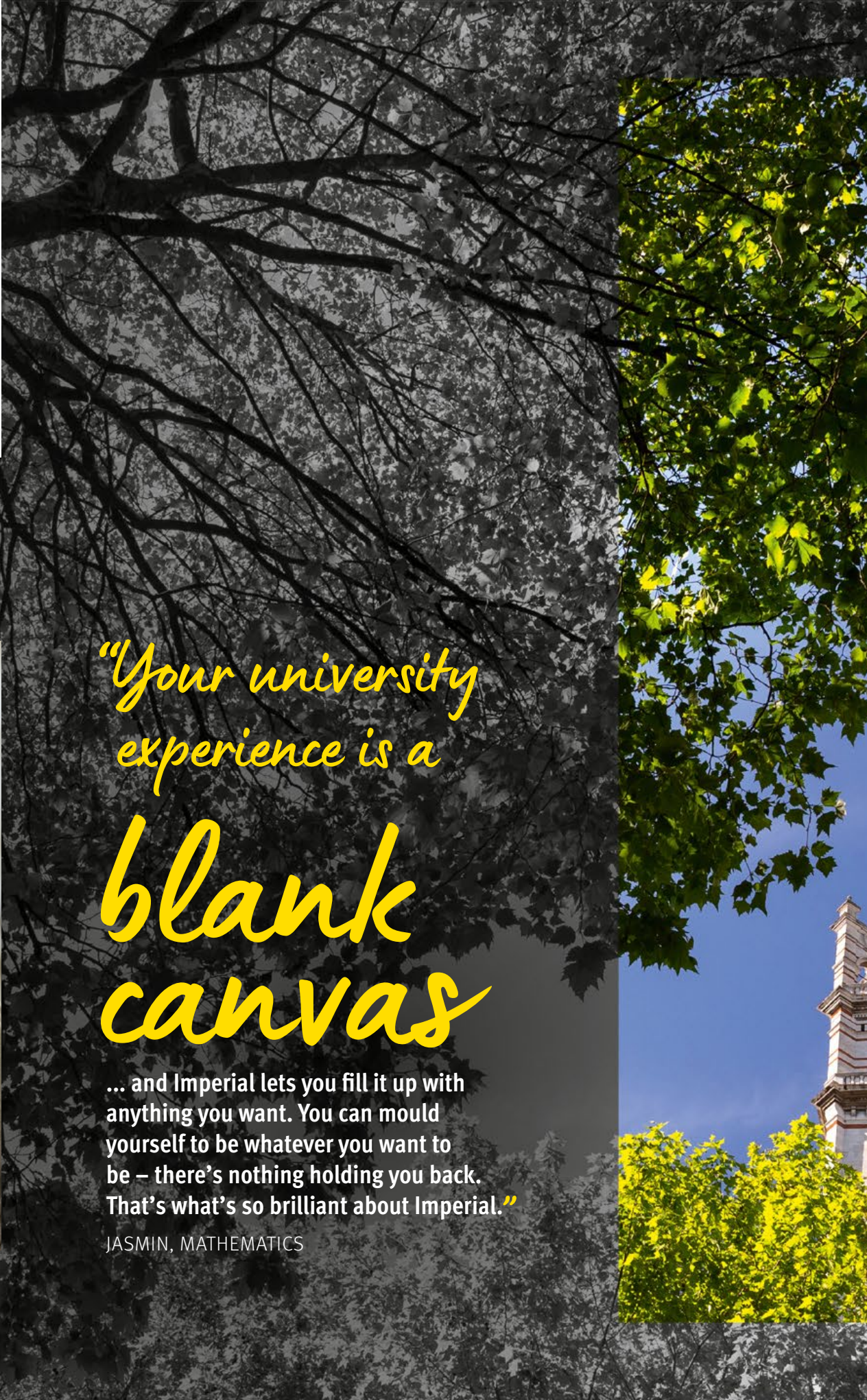
**But we're so much more than that...**



*"Your university experience is a blank canvas*

*... and Imperial lets you fill it up with anything you want. You can mould yourself to be whatever you want to be – there's nothing holding you back. That's what's so brilliant about Imperial."*

JASMIN, MATHEMATICS



## ABOUT

*"It's funny, I'm going back to my old school to give a talk in a couple of weeks, and I'm 100% going to recommend that they think about Imperial. If you want to go far, and do the best you can in the field you're interested in, you need to think about Imperial."*

KARL, ELECTRONIC AND INFORMATION ENGINEERING

*"I came to Imperial for an offer-holder day, and immediately thought 'yes, this is the place for me'. I thought I was going to be a lot more nervous and unsure of what to do when I arrived at uni, but I really liked the vibe at Imperial. I felt at home right away."*

ANASTASIA, BIOCHEMISTRY





*"I've met some incredible people at Imperial..."*

It's amazing how people from all over the world can be so like-minded, and I think the fact that everyone is here to do STEM plays a big part. Because it also means everybody kind of has the same interests, the same way of thinking – we're all science-obsessed! It's great!"


ZAHRA, CHEMICAL ENGINEERING



## BELONG FROM DAY ONE

We're proud to have one of the most vibrant and diverse student populations in the UK. Our students come from over 140 different countries, bringing with them an amazing array of different cultures, customs and cuisines.

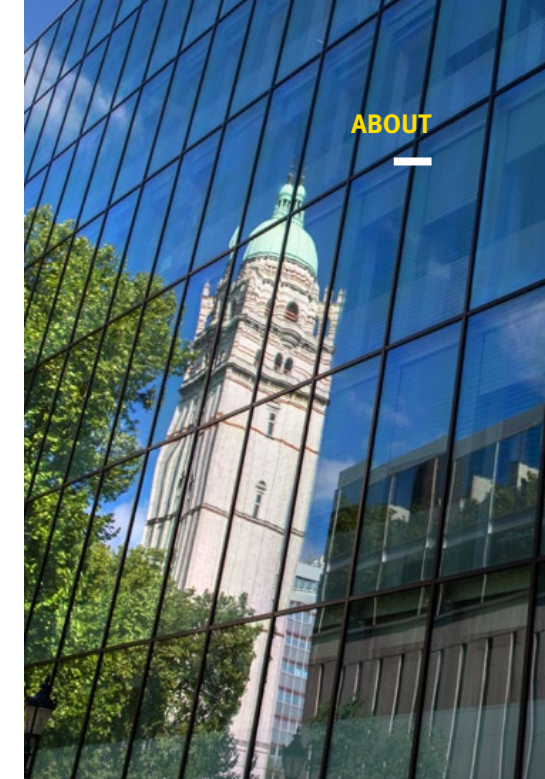
So whoever you are and whatever your story, you'll be welcomed and accepted at Imperial.

 See pages 78–80 to find out how to apply to Imperial and how our selection process works.

**"It's such a supportive environment because you have so many people around you. If you're a new student in halls, you have everyone you live with. Then you have the people on your course and the societies that you join.**

**Everyone's in the same situation and wants to meet new people. So don't panic that you won't make friends – you will. Even if you don't want to, you will!"**

LEAH, MOLECULAR BIOENGINEERING



ABOUT



**"Honestly, I didn't expect it to be this much fun. I think Imperial sometimes has this reputation for just being all about getting your head down and studying, but it's been nothing like that. I've made so many friends and had so much fun. I think that's what I'll miss the most when I graduate – that close network of friends that you live with and see every day."**

ABEKU, MEDICINE

**CHAT TO OUR STUDENTS**  
[www.imperial.ac.uk/study/chat-to-our-students](http://www.imperial.ac.uk/study/chat-to-our-students)



# THE YEAR THAT CHANGED THE WORLD

**There's no better way to judge a community than by how it responds in a crisis.**

When the COVID-19 pandemic took hold of the world, Imperial research drove forward our understanding of the virus. We developed advanced technologies for rapid testing, trialled new vaccines, built low-cost ventilators and deployed 280 final year medical students to volunteer on the frontlines – amongst many other things.

We also maintained our high-quality teaching remotely for students who could no longer join us on campus, from organising virtual field trips to developing our new mailable Lab in a Box which meant practical work could continue around the world.

*"The virtual field trip to Sardinia has been amazing..."*

Our lecturers put so much effort into making the trip fun and immersive.

They developed an app where you can wander around and inspect 3D models of rock samples and use a virtual microscope to analyse thin sections of real rocks. I've learnt so much and I've been able to apply what I've learnt in lectures to real-life examples – which is exactly what fieldwork is about.

A lot of Geology students may have been disappointed that they couldn't travel to Sardinia for the real field trip this year but I was very excited that the trip had become virtual. I have a disability which means I can't normally attend fieldwork, so this experience has been extra special for me."

EMILIA, GEOLOGY



Our virtual field trip to Sardinia lets students wander around and inspect 3D models of real rocks.

*"Electric wave experiments have been a staple for our Physics undergraduates for many years. Transforming them into something that would work in a home environment during the pandemic was a daunting yet exciting prospect.*

The end result is a 'Lab in a Box' which can be mailed to students across the world. It allows students who may be unable to attend campus to gain the same knowledge and skills as a student physically on campus and in a real laboratory."

DR SUZUKI-VIDAL, DEPARTMENT OF PHYSICS AND ROYAL SOCIETY UNIVERSITY RESEARCH FELLOW



Safety measures are in place across all our campuses to help protect you and limit the spread of the virus.



**SEE MORE EXAMPLES OF OUR VIRTUAL LEARNING IN RESPONSE TO COVID-19**  
[www.imperial.ac.uk/stories/reshaping-education](http://www.imperial.ac.uk/stories/reshaping-education)



# ASKING THE BIG QUESTIONS

Ever wondered how we can use maths to predict natural disasters? Or whether we could use robots to build cities of the future? Or if we can design an affordable healthcare model that's adjustable to all global conditions? We have. In fact, solving real-world problems is at the core of what we do at Imperial.

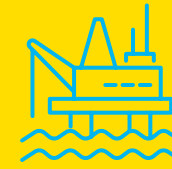
If you study here, you won't only get to hear about our discoveries, you'll have a front-row seat as they happen. That's because the researchers who work in our labs to make the world a healthier, cleaner and safer place are the same people who feed into our undergraduate curriculum and, in many cases, teach classes and supervise student projects.

Here are just some of the things we're working on...



You'll join a community of world-class researchers who are working to tackle some of the world's biggest challenges.

## Recycling oil residue from offshore drilling with an oil-catching sponge



**Dr Pavani Cherukupally** from the Department of Chemical Engineering is the Imperial lead in a joint project with the University of Toronto that has created an oil-catching sponge which could prevent water contamination from offshore oil drilling. The chemically modified sponge removes over 90% of oil microdroplets from wastewater and can be treated with a solvent so that the oil can be recycled.

## Using non-invasive brain stimulations to help ease tremors



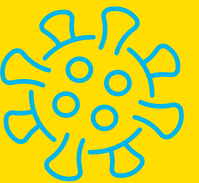
A team led by **Dr Nir Grossman** in the Department of Brain Sciences has used electrical pulses to help suppress debilitating tremors typically found in conditions such as Parkinson's disease. Working in partnership with the UK Dementia Research Institute, the team found that synchronising electrical pulses with the rogue brain waves associated with the tremors helped to reduce their severity.

## Developing new technology to probe the mysteries of the universe



**Professor Oliver Buchmueller** in the Department of Physics is the Imperial lead for a new interdisciplinary project that will search for dark matter and gravitational waves. The team will begin by designing a 10m atom interferometer – an instrument measuring ultra-cold atoms – which could pave the way for potential new insights into the merging of massive black holes, and physics at the beginning of the universe.

## Studying the effects of new coronavirus mutations



**Professor Wendy Barclay** from the Department of Infectious Disease is the lead for a new consortium of UK virologists who will study the effects of emerging SARS-CoV-2 mutations. The team will study how mutations in the virus affect how transmissible it is, the severity of COVID-19 they cause, and the effectiveness of current vaccines and treatments, in order to rapidly inform government policy.

FIND OUT MORE ABOUT OUR LATEST RESEARCH  
[www.imperial.ac.uk/news](http://www.imperial.ac.uk/news)



## A 'TYPICAL' IMPERIAL WEEK

Between labs and lectures, societies and startups, and a million London adventures waiting on your doorstep, no two days at Imperial are the same – let alone weeks.

**But here's a flavour of what some of our students get up to on a (not so) typical week.**

“It varies, but mostly it's lectures in the morning, labs and tutorials in the afternoon. On Tuesday evenings, I end the day with a boxing session after a full day of lectures.

On weekends, I might go out in Soho or Shoreditch. Or sometimes me and my course mates will have a night in, cooking meals from each person's country ...

*I try not to do any work on weekends – it's nice to set time aside for yourself.”*

DEBORAH, MOLECULAR BIOENGINEERING



Deborah was part of Imperial Musical Theatre Society's annual autumn showcase.

LEARN



“I usually have about 18 hours a week of teaching – lectures and tutorials – and I do a lot of independent study. I find I work best in the evenings so usually after I've had dinner, I'll work from around 7pm to 10pm. I always give myself Saturday off because I feel like I need a break. My boyfriend will come over and we'll go out to explore South Kensington – I just love all the views and the pretty streets nearby. On Sundays, I'll grab a coffee or go out for lunch with friends, or go for walks (or 'wheels' as I call them because I use a wheelchair) in Hyde Park.”

EMILIA, GEOLOGY



“There are definitely some common themes week to week. The weekdays are mostly full of lectures obviously, but then on Tuesday night, it's student night so I'll go out in London with mates.

Weekends are pretty chill. At my flat, we'll have movie nights, game nights, cocktail nights, things like that. So there probably isn't a 'typical week', but whatever's going on, you'll do a lot of stuff together, which makes it cool.”

KARL, ELECTRONIC AND INFORMATION ENGINEERING



## HANDS-ON RESEARCH

We don't just tell you about the world and expect you to take our word for it.

At Imperial, you'll learn by exploring, discovering, and critical and creative thinking. And you'll learn by challenging and inspiring one another.

Through our renowned Undergraduate and International Research Opportunities Programmes (UROP and IROP) you can also work on cutting-edge projects alongside industry-leading experts, both at Imperial and our prestigious partner universities all over the world.

### FIND OUT FOR YOURSELF

Get first-hand experience of life in a research lab, under expert supervision.

### LOTS OF CHOICE

Apply for advertised UROP and IROP opportunities or propose your own UROP idea.

### GO GLOBAL

Get international research experience at one of our partner institutions via IROP.



LEARN

*“UROP is awesome.”*

You can pretty much just email an academic whose work you find interesting and ask if you can come and work with them during the summer. Sometimes they'll say no, but a lot of the times, they'll say yes!

That's how I ended up working in the Department of Electrical and Electronic Engineering, looking at an app for the self-management of type 1 diabetes and trying to work out how to improve it. My supervisor and I ended up coming up with a new notation that can be used in app design, which was accepted as a manuscript at two international conferences – I actually presented at one of them!

It's pretty exciting that, as a first year student, I managed to get published in something that's not even related to my course.”

LEAH, MOLECULAR BIOENGINEERING

**FIND OUT MORE ABOUT OUR UNDERGRADUATE RESEARCH OPPORTUNITIES**

[www.imperial.ac.uk/study/ug/why-imperial/research-led-education/](http://www.imperial.ac.uk/study/ug/why-imperial/research-led-education/)



*“Entrepreneurship is a  
**BIG**  
part of Imperial.”*

You've got the Advanced Hackspace, which has all the tools I need to create a high-quality product. It's really got everything from 3D printers to lathes, metal, wood, plastic, you name it. Then the Enterprise Lab is great for the business side. They have lawyers coming in to speak to us, and I can talk to other entrepreneurs – super interesting people from other departments that I would never meet otherwise.”

GIOVANNI, MECHANICAL ENGINEERING



Cai in the Enterprise Lab, which offers co-working, competitions and advice from experts.

## ENTERPRISING MINDS

We help budding innovators turn amazing ideas into real products and startups that shake up industries and change lives. Whether you have an idea or just want to gain some new skills, you can access entrepreneurial events, co-working space and expert advice through the Enterprise Lab. You can also take advantage of our prototyping facilities in the Advanced Hackspace, and pitch for funding to develop your product through our regular enterprise competitions.

“The community and facilities at Imperial are really quite unique. And so is the support – they really back you to explore and try new things – even if they don’t always work out!

Our idea was to design an animal-free growth formula that could be used by the clean meat industry to make real meat products in the lab at a larger scale, but for much less. We did our lab work at the Advanced Hackspace and refined the business model in the Enterprise Lab, winning a few competitions along the way, going from an idea to a real startup – called Multus Media – with a real product.”

CAI, MOLECULAR BIOENGINEERING

**LEARN MORE ABOUT  
ENTREPRENEURSHIP  
AT IMPERIAL**  
[www.imperial.ac.uk/  
entrepreneurship](http://www.imperial.ac.uk/entrepreneurship)



# EXPAND YOUR HORIZONS

Imperial's I-Explore programme lets you pick a module from a whole range of other areas to study alongside your course and earn credit towards your degree.

If you're thinking about unusual applications for your degree, why not try a STEMM module in Space Mining or Climate Change Technology? If you're looking to develop your startup idea, have a go at Entrepreneurship or Business Strategy. Or if you want a total break from all things clinical or scientific, how about an Imperial Horizons course in Creative Writing or Moral Philosophy?

## FULLY-ROUNDED EDUCATION

Earn credit for study in an area beyond your core degree through I-Explore – built into the majority of our undergraduate courses.

## SO MUCH CHOICE

Choose from four I-Explore streams covering liberal arts, business, STEMM or multidisciplinary projects addressing global challenges.

## EXTRA- OR NON-CREDIT COURSES

Follow a passion for languages, humanities or social sciences and gain extra credit for it – or study just for fun – through Imperial Horizons (also an I-Explore stream).

LEARN

*"I'm interested in science, of course I am. But I also have other passions."*

That's why the Imperial Horizons course was a big factor in making me want to come here.

I took Creative Thinking in my first year, which was super fun, and explored the things in our lives that capture and stimulate our imagination. It really helped me step out of my routine and dust off a different part of my brain."

ANASTASIA, BIOCHEMISTRY

FIND OUT MORE ABOUT I-EXPLORE  
[www.imperial.ac.uk/i-explore](http://www.imperial.ac.uk/i-explore)



## STUDY HERE, WORK ANYWHERE

Studying at Imperial can be your launchpad to a world of life-changing careers. So, whether you've got your career path all mapped out, or you're still not sure where your degree could take you, we're here to support you from your very first day.

*"The Careers Service put me in touch with a fantastic mentor in the finance industry."*

I wasn't quite sure what I wanted to do after I graduated but talking to the mentor was really useful. I actually realised I didn't want to do what he did, which I guess is an important thing to find out early on! He did point me towards an area I find really interesting though.

And the Finance and Consulting careers fair I went to was great. I'm so glad the Careers Service organises the different fairs because you get to see all the different companies that want to hire someone with your degree and skills."

JASMIN, MATHEMATICS



Jasmin completed an International Research Opportunity Placement (IROP) in the Department of Mathematics at MIT in the USA.



## TOP FOR EMPLOYABILITY

Get your career off to a flying start – we're ranked number one in the UK for graduate prospects in *The Times and Sunday Times Good University Guide 2021*.

## PROFESSIONAL CAREERS SUPPORT

Access workshops, online courses, events and professional guidance from your very first day and for up to three years after you graduate.

## IN-DEMAND GRADUATES

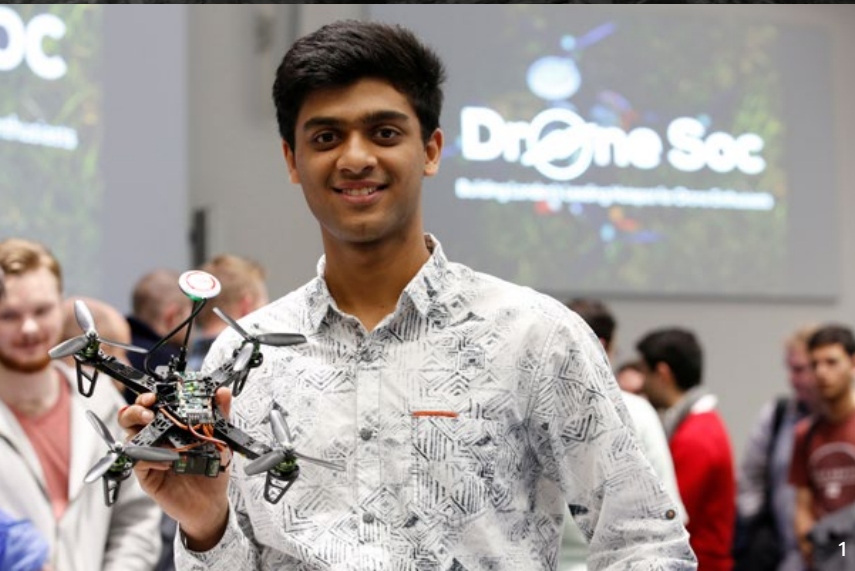
Join a university that's consistently targeted by the UK's top employers, who attend our various careers fairs.

**FIND OUT MORE ABOUT  
OUR CAREERS SERVICE**  
[www.imperial.ac.uk/careers](http://www.imperial.ac.uk/careers)



# STUDENT LIFE AT IMPERIAL

Master a new skill, take up a different sport or embrace a fresh challenge. There's a world of opportunities waiting for you beyond the classroom and we'll encourage you to make the most of it.



1



2

- 1 Drone Society
- 2 El Salvador project which provides essential infrastructure to rural communities
- 3 Outdoor Society on a trip to Snowdonia in Wales
- 4 Imperial's Exploration Board funds research trips which take our students all over the world
- 5 IQ (our LGBTQ+ society)



3



4



5



## WORK HARD, PLAY HARD

Life at Imperial isn't all labs and lectures. We have over 340 clubs, societies and projects to get involved with, and state-of-the-art sports facilities right on campus.

From Baking to Biking, from Hip Hop to Harry Potter – whatever inspires you, you'll find like-minded people to share it with. And if there isn't a society for the things you love yet, you can set one up!

Here are Leah, Cai and Ayomide to tell us how they love to spend their spare time.

### CLUBS, SOCIETIES AND PROJECTS

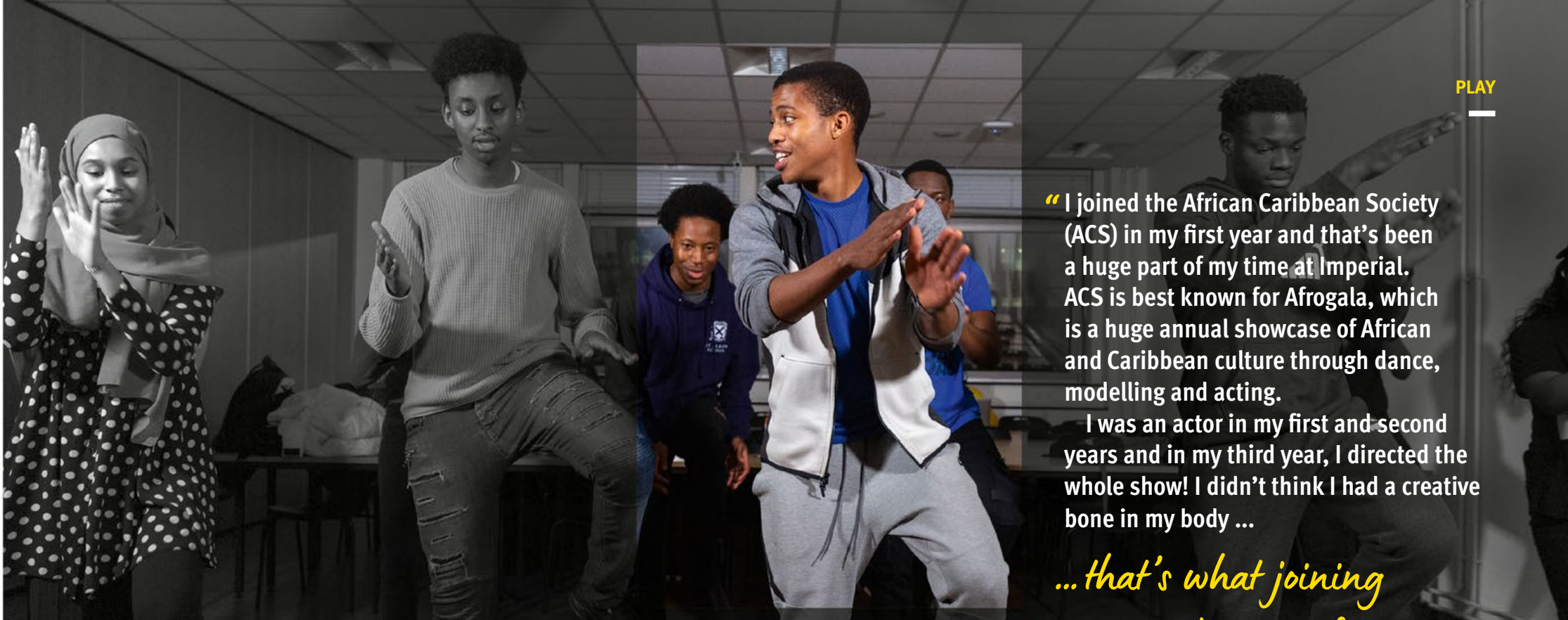
Choose from 340+ student-run clubs, societies and projects, organised within Imperial College Union.

### SPORTS AND FITNESS

Stay active in a way that suits you, whether that's participating in club and cross-university sports or enjoying recreational facilities like our on-campus gym, swimming pool and climbing wall.

### ART AND MUSIC

Explore your artistic side through opportunities including orchestras, free art classes, theatre groups, well-equipped music practice rooms and free on-campus concerts.



“I joined the African Caribbean Society (ACS) in my first year and that's been a huge part of my time at Imperial. ACS is best known for Afrogala, which is a huge annual showcase of African and Caribbean culture through dance, modelling and acting.

I was an actor in my first and second years and in my third year, I directed the whole show! I didn't think I had a creative bone in my body ...

*...that's what joining societies does – it lets you find pieces of yourself that you never knew existed.”*

AYOMIDE, MEDICINE

“I'm a runner so I always knew I'd join the Cross Country and Athletics Club. It's pretty big here and really friendly. Each Sunday we have a morning run where we go past people's halls or flats and then have a big breakfast with everyone afterwards, which is really nice.”

CAI, MOLECULAR BIOENGINEERING

Ayomide directed Imperial's recent Afrogala – an annual celebration of African and Caribbean culture. Sean, above, was a dancer in the most recent gala.



“You're guaranteed to find a club or society you like ... even if it's something you never dreamt you would. In Welcome Week, my friend suggested the Belly Dancing Society – I wasn't sure, but she convinced me to try it and two years later I'm on the committee!

I think it's all about pushing yourself to try new things, and then you'll think, “Yeah, that was so worth it.”

LEAH, MOLECULAR BIOENGINEERING



DISCOVER YOUR NEXT PASSION  
[www.imperialcollegeunion.org/  
activities](http://www.imperialcollegeunion.org/activities)



# LONDON CALLING

*“What I love about being in London is that there’s so much going on – the energy of London is really amazing!”*

If I want to do something artsy or visit a nice market, I’ll visit places in East London, like Shoreditch, or head to Camden Town, where there are nice little stores and places to buy vintage clothes. West London is for serious retail therapy, and then Central London has everything: nights out, food, relaxing, going to the cinema.

Where I live now is on the Thames River Walk and there’s a public garden next to me too. I like going for walks or escapes in the garden, or I invite my friends to have a picnic or just watch the river from my balcony.”

JESSICA, DESIGN ENGINEERING



Jessica and her friend Agogo walking through Imperial's Prince's Gardens.

“One exciting thing I really like about London is that I can find so many different cuisines here. I can eat whatever I want! When I’m craving sushi or a really good pizza, I know where to go. My Google Maps is essentially just a food map of where I really like!”

MAX, MECHANICAL ENGINEERING



Max and friends enjoying Korean food in London.



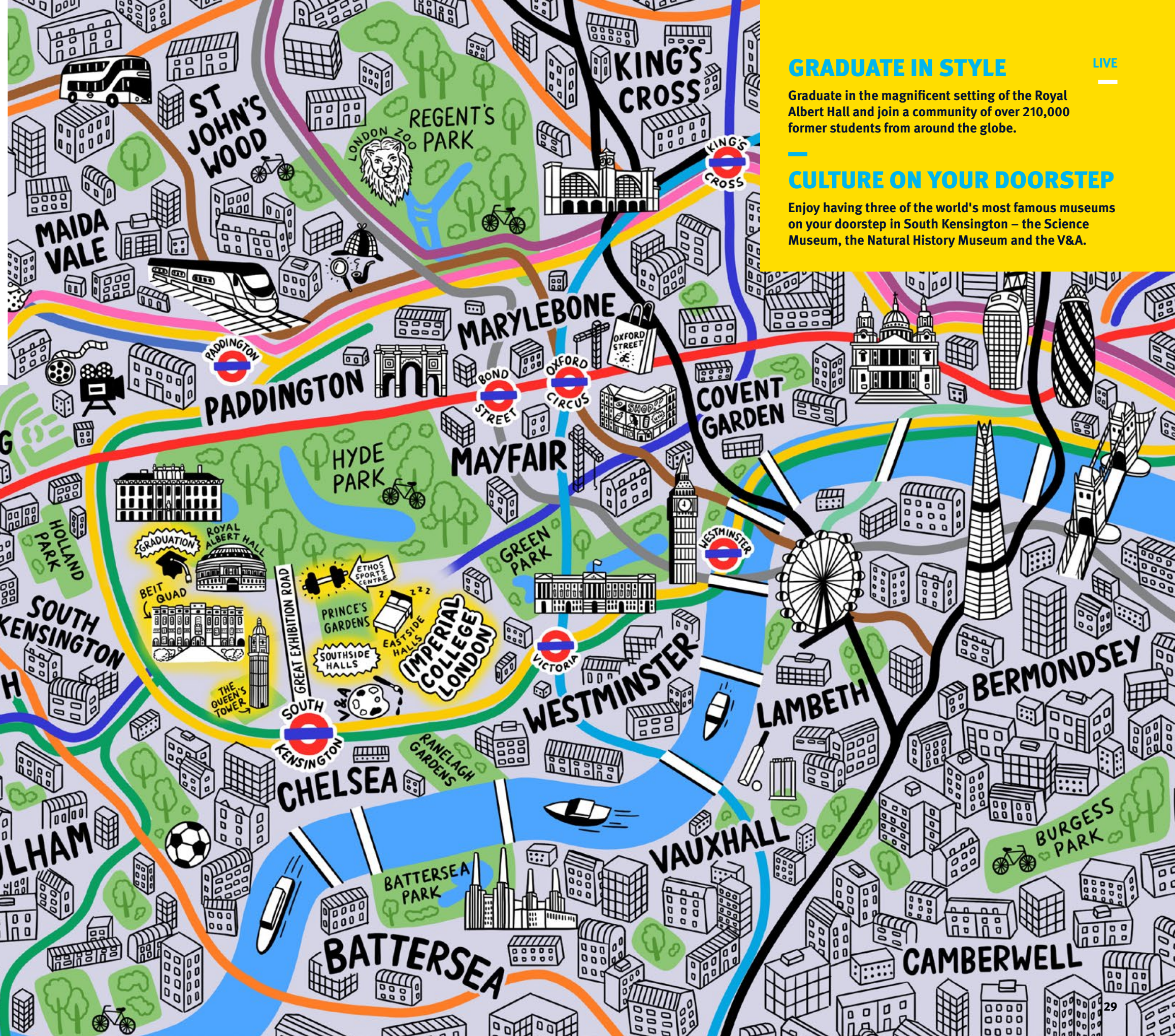
# GETTING HERE, THERE AND EVERYWHERE

London is Europe's best-connected city, and Imperial is right at the heart of it.

With buses, trains and cycle lanes leading to all destinations at all hours, you're never too far from friends, family or your next adventure.

See pages 90–91 for a map of our London campuses.

This map is not to scale



## GRADUATE IN STYLE

LIVE

Graduate in the magnificent setting of the Royal Albert Hall and join a community of over 210,000 former students from around the globe.

## CULTURE ON YOUR DOORSTEP

Enjoy having three of the world's most famous museums on your doorstep in South Kensington – the Science Museum, the Natural History Museum and the V&A.



## HOME FROM HOME

Around 80% of our undergraduates make one of our halls of residence their home in the first year.

Each hall has its own unique community and character – and they all have residential support teams available around the clock.

And with our accommodation guarantee, you don't have to find somewhere to live in a new city – just arrive, unpack and immerse yourself in the full experience from day one.

 See pages 84–85 for more information on applying for College accommodation.



A typical twin room in Beit Hall in South Kensington.

*“In my first year, I lived in Beit\* – it's right in the middle of campus and everyone was so nice.”*

LIVE

I even moved back into halls in my fourth year, so I guess that says it all. I'm in Southside Halls (in Prince's Gardens on our South Kensington Campus) this time round and I'm a sub-warden so I assist with the pastoral support of residents and help organise different social activities so new students can get to know each other. And because I've lived in halls for so long, students know they can come to me with any issues or concerns. I've probably gone through the same thing!”

AYOMIDE, MEDICINE

\*Beit Hall, next to our Students' Union building in South Kensington.

*“I lived in Woodward (Imperial's 19-storey student residence in North Acton) and had an amazing view of London from my kitchen. I could go and make my morning coffee and see the sunrise over London, which was pretty cool. There are lots of students based at Woodward too, so it was a really great place to make friends.”*

PATRICK, BIOMEDICAL ENGINEERING

## ACCOMMODATION GUARANTEE

Take advantage of a guaranteed place in halls – available for all first years who accept Imperial as their first choice, and meet a few other criteria.

## ALL-INCLUSIVE RENT

Take the stress out of budgeting with all-inclusive rents (covering all utilities, internet and insurance), paid once a term.

## 38–40 WEEK CONTRACTS

Rest easy knowing the room is yours for the full academic year (including holidays), with the option to extend your contract over the summer in some halls.



COMPARE HALLS AND FIND OUT HOW TO APPLY  
[www.imperial.ac.uk/accommodation](http://www.imperial.ac.uk/accommodation)



# CAMPUS LIFE

Our main campus in South Kensington is so much more than just a place to study. It's also a friendly, self-contained space where you can relax, get involved in university life, and meet students from all kinds of backgrounds who love science as much as you do.

Here are just a few of our campus highlights...



- 1 Soak up the sun in Prince's Gardens – conveniently located next to our on-campus NHS Health Centre and Dental Surgery.
- 2 Beit Quad is home to our Students' Union which provides resources and funding for our 340+ student activities.
- 3 Visible across London, the Queen's Tower is at the heart of our South Kensington Campus.
- 4 When social distancing restrictions are not in place, a farmers' market comes to our South Kensington Campus each Tuesday, selling various takeaway lunch dishes – including vegan options.
- 5 Ethos Sports Centre is equipped with state-of-the-art facilities, including a gym, 25m swimming pool and exercise studio.




# IMPERIAL BURSARY FOR HOME STUDENTS

Your access to a world-class education should depend on your talent and enthusiasm, not your background or bank balance.

That's why we offer one of the most generous bursary schemes in the UK – so that everyone can make the most of their Imperial experience.

The Imperial Bursary is worth up to £5,000 per year for Home students with household incomes up to £60,000. That's on top of any Tuition Fee or Maintenance Loans you may also be eligible for, and it's money you do not have to pay back.

 See pages 82–83 for more information on the Imperial Bursary and other UK government funding you may be eligible for.

## £2–5K/YEAR

Access an Imperial Bursary of up to £5,000 per year, depending on your household income.

## £60,000

Qualify for a bursary every year, as long as your household income remains below this level.

## NON-REPAYABLE

Enjoy the boost to your budget without thinking about repayment, as the bursary is yours for free.



AFFORD

*“The Imperial Bursary has made a huge difference.”*

My experience at uni would've been totally different if I hadn't received it.

It's helped me with things like rent, travel and just everyday living costs. Without it, I'd probably have had to move back home or try to juggle a part-time job with my course, which I know lots of students can't do.

I'd like a career in orthopedic surgery and the bursary has meant I've been able to travel to conferences and extracurricular surgical courses which I might not have been able to attend without the extra money. It's also nice knowing you don't have to pay the money back!”

ABEKU, MEDICINE

**FIND OUT MORE ABOUT THE IMPERIAL BURSARY**  
[www.imperial.ac.uk/imperial-bursary](http://www.imperial.ac.uk/imperial-bursary)



*“It’s tough moving halfway across the world to a new country and a big city.”*

At one point it all became a little overwhelming! I went to see my Personal Tutor and he was really, really helpful. He would check in on me every week, we’d have lunch together to catch up, and he put me in touch with our department’s Wellbeing Advisor who was also great. They gave me some useful tips and advice on balancing my studies and social life.

At Imperial, I also feel like I know my lecturers personally. That really helps me feel at home.”

MAX, MECHANICAL ENGINEERING  
(FROM MALAYSIA)



## HERE TO HELP

THRIVE

We know you’ll have a great time at Imperial. But if you ever need a helping hand – with financial advice, with your wellbeing, or with anything else – we’re here for you.

Your Personal Tutor will be there throughout your time at Imperial to make sure everything’s ok, and offer support if it’s not.

Your department and halls of residence have staff dedicated to supporting your wellbeing who you can chat to at any time. And our Student Hub team are there to signpost you to support on everything from money and accommodation to visas.

 See pages 86–87 to find out more about our College-wide network of support services.

### ACADEMIC SUPPORT

Receive the support of a dedicated Personal Tutor within your department

### SUPPORT IN YOUR HALL

Join an inclusive residential community, with a 24/7 support team to look after your wellbeing and organise social activities for residents.

### SPECIALIST SUPPORT

Access a range of specialist support, covering financial support, international student support, and support for students with a disability, learning difference or physical or mental health condition.

SEE WHAT SUPPORT IS AVAILABLE

[www.imperial.ac.uk/student-support-zone](http://www.imperial.ac.uk/student-support-zone)



# AERONAUTICS



You'll have access to our Flight Simulation Laboratory where you can test-fly your own aircraft designs.



**2ND IN THE UK**  
*The Times and The Sunday Times Good University Guide 2021*

The science of flight and vehicles that fly, from hot-air balloons to spacecraft.



**PROFESSIONALLY ACCREDITED COURSES**

## WHY IMPERIAL?

From drones that can help monitor the health of forests to advanced computer modelling of fluid flows that could lead to more efficient engines and turbines, our Department of Aeronautics is at the forefront of aeronautical teaching and research.



**YEAR ABROAD (in Europe or USA)**

You'll be taught by researchers working to solve global challenges, like Dr Koon-Yang Lee, whose Future Materials Group is developing sustainable textiles made from waste materials which can be used in the interior of vehicles.



**YEAR IN INDUSTRY**

We have state-of-the-art facilities including wind tunnels, a Mach 9 hypersonic gun tunnel, a large flight-test arena where we develop next generation aerial robots, and a flight simulator where you can test your own aircraft designs. We also work closely with the aerospace industry, and you'll have talks and seminars by visiting experts.

## WHAT YOU'LL STUDY

In the first two years of your course, you'll build a strong foundation in physical and engineering subjects, with lab-based coursework, and design, make and test exercises to develop your design and analysis skills. Year two includes more specialised aeronautical material, plus the chance to attend a flight-testing course at the National Flying Laboratory Centre at Cranfield University.

In years three and four, you'll choose specialist topics to explore in more detail. Current choices include advanced propulsion, turbulence modelling and aeroelasticity. You'll also complete group projects that let you take a design concept through various stages of development. Recent examples include an electric regional aircraft, a search-and-rescue drone and a crewed mission to Mars.

You can also pick from different course pathways that include a focus on spacecraft engineering, or a placement in industry – typically with an F1 racing team or an aircraft manufacturer.

Alternatively, with marks of 60% and above by the end of second year, you can apply to spend your third year studying at one of our partner universities across Europe or in the USA.

## OUR COURSES

Qualification and title	Length	UCAS code
MEng Aeronautical Engineering	4 years	H401
MEng Aeronautical Engineering with a Year Abroad	4 years	*
MEng Aeronautical Engineering with a Year Abroad	5 years	*
MEng Aeronautical Engineering with a Year in Industry	5 years	*
MEng Aeronautics with Spacecraft Engineering	4 years	*

\* Transfer to these courses is only available after you start – you must apply to H401 in the first instance.

Our courses are professionally accredited by the Royal Aeronautical Society (RAeS) and the Institution of Mechanical Engineers (IMechE).

Students Elizabeth and Carlota on an industry placement at Williams Racing in Oxford.



## ENTRY REQUIREMENTS

### A-levels

**Minimum entry requirement:**

A\*A\*A or A\*AAA

**Typical offer:** A\*A\*A

### International Baccalaureate

**Minimum entry requirement:** 40 points

**Typical offer:** 40 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

Many employers value the critical and analytical skills gained from our Aeronautical Engineering courses, which is why the industry areas our graduates go on to work in are incredibly broad. There's a high demand for our graduates from the aerospace industry, manufacturing, consultancy, research and development, and other fields including teaching and finance.

### Recent graduates have become ...

- Aerodynamics Engineer, Red Bull Racing
- Future Space Programs Engineer, Airbus
- Actuarial Consultant, EY
- Aerospace Engineer, Rolls-Royce
- Technology Risk Analyst, KPMG

## GET IN TOUCH

T: +44 (0)20 7594 5047

E: [aero.admissions@imperial.ac.uk](mailto:aero.admissions@imperial.ac.uk)

[www.imperial.ac.uk/study/ug/aeronautics](http://www.imperial.ac.uk/study/ug/aeronautics)



# BIOCHEMISTRY AND BIOTECHNOLOGY

You'll have the opportunity to apply your knowledge to the real world by completing a laboratory-based research project in your final two years.

The analysis of chemical processes within living organisms and understanding how it can be applied in the real world.

## WHY IMPERIAL?

Want to know how our cells communicate during growth, or work together to fight infection? This is the place to find out.

Biochemistry and biotechnology are among the fastest growing areas of scientific research, vital in areas like drug manufacture and renewable energy. And our Department of Life Sciences is one of the leading places to study them.

You'll join one of the most renowned life science groups in Europe. This means we can offer you a broad study programme, including areas like entrepreneurship and commercialising technology – as well as access to outstanding research facilities, like tissue culture suites and specialist equipment for genomic and cell biology studies.

You'll also have the flexibility to start following your own career path, whether by studying overseas, taking a year in industry or research, or studying management or a language as part of your course.



**6TH IN THE UK**  
*The Times and The Sunday Times Good University Guide 2021*



**OUTSTANDING RESEARCH FACILITIES**



**YEAR ABROAD OPTIONS IN EUROPE**



**YEAR IN INDUSTRY, RESEARCH OR MANAGEMENT**

## WHAT YOU'LL STUDY

All students follow the same core modules for the first year and a half. This means you can transfer between the different biochemistry and biotechnology courses up to the end of your second year. Core modules currently include biological chemistry, cell and molecular biology, proteins and enzymes.

In your second and final years, you'll have more freedom to follow your interests, choosing from a range of topics linked to our current research, like synthetic biology, structural biology and drug design, molecular basis of bacterial infection, and mechanisms of gene expression. You'll also get the chance to apply your knowledge to the real world with a research project or dissertation.

If you'd like to pick up a second language, you can study French, German or Spanish alongside your course and have the chance to spend your third year at a partner university. And if you're achieving marks of 60% and above by the end of your second year, you can also follow course pathways that offer you a year in management, industry or research abroad.

## OUR COURSES

Qualification and title	Length	UCAS code
BSc Biochemistry	3 years	C700
BSc Biochemistry with a Year in Industry/Research	4 years	*
BSc Biochemistry with French for Science	4 years	C7R1
BSc Biological Sciences with German for Science	4 years	C7R2
BSc Biological Sciences with Spanish for Science	4 years	C7R4
BSc Biochemistry with Management	3 years	*
BSc Biochemistry with Management	4 years	*
BSc Biochemistry with Research Abroad	4 years	*
BSc Biotechnology	3 years	J700
BSc Biotechnology with a Year in Industry/Research	4 years	*
BSc Biotechnology with French for Science	4 years	J7R1
BSc Biotechnology with German for Science	4 years	J7R2
BSc Biotechnology with Spanish for Science	4 years	J7R4
BSc Biotechnology with Management	4 years	*
BSc Biotechnology with Research Abroad	4 years	*

\* Transfer to these courses is only available after you start – you must apply to C700 or J700 in the first instance.

Courses are also available in Biological Sciences (see pages 44–45). While transfer is possible between the Biochemistry and Biotechnology courses (excluding Languages for Science), it is not possible to transfer from a Biochemistry/Biotechnology course to a course within the Biological Sciences stream after entry.

If you're thinking of applying for more than one of these courses, please contact the Department for advice.

## ENTRY REQUIREMENTS

### A-levels

Minimum entry requirement: AAA  
Typical offer: AAA to A\*AA

### International Baccalaureate

Minimum entry requirement: 38 points  
Typical offer: 39 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

Many of our graduates go on to study for a higher degree in the field, typically starting with a Master's degree followed by a PhD, before a career in academic research or industry. Other opportunities for Life Sciences graduates include government and industrial research, public health, and careers in business.

### Recent graduates have become ...

- Bioinformatics Data Analyst, a multinational healthcare company
- Senior Associate, a management consulting firm
- Co-founder, a biochemical startup
- Pharmacy Technical Officer, NHS
- Senior Analyst, a medical communications and health economics agency

## GET IN TOUCH

T: +44 (0)20 7594 5398  
E: lifesciences.admissions@imperial.ac.uk

[www.imperial.ac.uk/study/ug/life-sciences](http://www.imperial.ac.uk/study/ug/life-sciences)



# BIOENGINEERING



You'll have access to specialised laboratory equipment to develop your practical skills.



**4TH IN THE UK**  
*The Times and The Sunday Times Good University Guide 2021*



**PROFESSIONALLY ACCREDITED COURSES**



**YEAR ABROAD (in Europe, Singapore or USA)**



**YEAR IN INDUSTRY**

## Engineering principles meet biological problems.

### WHY IMPERIAL?

Of all the engineering disciplines, none has the power to transform our health quite so dramatically as bioengineering.

You'll learn about a huge range of topics including mechanics, nanotechnology, biomaterials, programming and design. You'll also work alongside world leaders in their field within the department and have access to state-of-the-art facilities.

Our reputation for innovation in this field is well deserved. Our neurotechnology researchers combine robotics with neuroscience to create pioneering prosthetics that repair pathways in the human brain. Our biomaterials researchers are using nanomaterials and biosensors to transform the way we make diagnoses for viruses like HIV. And our Centre for Blast Injury Studies is improving treatments and recovery for people who've been injured in explosions.

### WHAT YOU'LL STUDY

#### Biomedical Engineering

Our biomedical engineers use their broad engineering skills, technological knowledge and understanding to help people live longer, healthier and happier lives.

In your first two years, you'll study foundational engineering topics like maths, computing and mechanics and develop your understanding of the human body. In the second year, you'll apply these skills to a practical team project in engineering design.

In your third and fourth years, you'll choose a specialist pathway in either Biomedical Engineering, Computational Bioengineering, Electrical Engineering or Mechanical Engineering. You'll also continue to take on plenty of practical work including an individual research project.

#### Molecular Bioengineering

Our molecular bioengineers design and engineer chemical and biological systems to solve challenges in health and wellbeing. They combine the technical knowledge and problem-solving skills of an engineer with the scientific understanding and laboratory expertise of an experimental scientist.

In your first two years, you'll study foundational engineering topics and develop your theoretical and practical understanding of chemical and biological processes. You'll work in groups in the second year to solve a real-world problem, like designing new molecules, materials and devices for improving cancer diagnosis. In the third and fourth years, you'll choose specialist modules in topics like biomaterials, biomimetics, mathematical modelling, medical entrepreneurship and synthetic biology, which you'll study alongside core modules.

On both courses, you'll have the opportunity to spend a year in industry or, with marks of 60% and above, a year abroad.

### OUR COURSES

Qualification and title	Length	UCAS code
MEng Biomedical Engineering	4 years	BH9C
MEng Biomedical Engineering with a Year Abroad	4 years	*
MEng Biomedical Engineering with a Year in Industry	5 years	*
MEng Molecular Bioengineering	4 years	H160
MEng Molecular Bioengineering with a Year Abroad	4 years	*
MEng Molecular Bioengineering with a Year in Industry	5 years	*

\* Transfer to this course is only available after you start – you must apply to BH9C or H160 in the first instance.

Our Biomedical Engineering courses are professionally accredited by the Institute of Physics and Engineering in Medicine (IPEM), the Institute of Engineering and Technology (IET), the Institute of Mechanical Engineering (IMechE), the Institute of Materials, Minerals and Mining (IOM3) and the Institution of Engineering Designers (IED).

Our Molecular Bioengineering courses are professionally accredited by IET, IOM3 and IED.

### ENTRY REQUIREMENTS

#### A-levels

Minimum entry requirement: A\*AA  
Typical offer: A\*AA to A\*A\*A

#### International Baccalaureate

Minimum entry requirement: 39 points  
Typical offer: 39–40 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

### WHERE COULD YOUR DEGREE TAKE YOU?

Our degrees not only prepare you for a career in the rapidly growing field of bioengineering, they also provide a technical foundation for careers in other engineering disciplines. Many graduates enter PhD programmes, while others launch their own startup companies or enter graduate medical programmes. Industry, consultancy and finance are also common career destinations for our graduates.

#### Recent graduates have become ...

- Graduate Engineer, an orthopaedic and neurosurgery company
- GSK Future Leaders Programme, GSK
- Biomedical Imaging Scientist, a medtech company
- Trainee Clinical Bioinformatician, NHS
- PhD student, Francis Crick Institute

### GET IN TOUCH

T: +44 (0)20 7594 2259  
E: [be.ugadmissions@imperial.ac.uk](mailto:be.ugadmissions@imperial.ac.uk)

[www.imperial.ac.uk/study/ug/bioengineering](http://www.imperial.ac.uk/study/ug/bioengineering)



# BIOLOGICAL SCIENCES



You'll have access to our outstanding facilities, including for genomic and cell biology studies, tissue culture suites and the most modern microscopes.



**6TH IN THE UK**  
*The Times and The Sunday Times Good University Guide 2021*



**MANAGEMENT YEAR AVAILABLE**



**YEAR ABROAD OPTIONS IN EUROPE**



**YEAR IN INDUSTRY**

The study of living things, and how they react to each other and the world around them.

## WHY IMPERIAL?

Biological Sciences is the study of all living things, from their behaviour at a cellular level all the way up to biodiversity on a global scale.

Our courses are taught within the Department of Life Sciences, which is home to one of the leading life science groups in Europe. They span the full breadth of biological sciences, including molecular, cell and evolutionary biology, ecology, biostatistics, genetics and biodiversity.

Our research-led curriculum is designed to produce more than just well-trained brains. Our scientists are innovative, independent and articulate. You'll have the freedom and flexibility to pursue your own career path – with opportunities including overseas study, a year in industry or research, and the chance to study management or a language as part of your course.

## ENTRY REQUIREMENTS

### A-levels

Minimum entry requirement: AAA  
Typical offer: AAA

### International Baccalaureate

Minimum entry requirement: 38 points  
Typical offer: 38 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

Many of our graduates go on to study for a higher degree in Life Sciences and follow careers in areas like academic research, biotechnology or the pharmaceutical industry. There are also opportunities in government and independent laboratories involved in medical and disease research, public health, forensic investigation, conservation and pollution.

### Recent graduates have become ...

- Co-founder, an environmental startup
- Software Engineer, Accenture
- PhD Student, Francis Crick Institute
- Research Associate, a genomics and genetics research institute
- Scientific Officer, Department for Environment, Food & Rural Affairs

## WHAT YOU'LL STUDY

All students study the same core modules in the first year. You'll cover topics like cell biology and genetics, and ecology and evolution to gain a solid understanding of the basic areas of biology and develop the scientific skills you need for the rest of your studies.

In your second year, you'll study applied molecular biology and genetics, and start to specialise in your areas of interest. Current optional modules cover topics like molecular microbiology, ecology, immunology and neuroscience.

You can choose from a wider selection of modules in your final year, with options to focus on a broader approach through Biological Sciences or specialise through the Ecology and Environmental Biology or Microbiology courses. Current topics include medical microbiology, stem cells, bioinformatics, systems neuroscience and an ecology field course, currently in South Africa. Final-year students also have the chance to apply their knowledge to the real world by completing a research project or dissertation.

If you'd like to learn a new language, you can study French, German or Spanish alongside your course. And if you're achieving marks of 60% and above by the end of your second year, you can follow course pathways that offer you a year in management, industry or researching abroad.

## OUR COURSES

Qualification and title	Length	UCAS code
BSc Biological Sciences	3 years	C100
BSc Biological Sciences with a Year in Industry/ Research	4 years	*
BSc Biological Sciences with French for Science	4 years	C1R1
BSc Biological Sciences with German for Science	4 years	C1R2
BSc Biological Sciences with Spanish for Science	4 years	C1R4
BSc Biological Science with Management	3 years	*
BSc Biological Sciences with Management	4 years	*
BSc Biological Sciences with Research Abroad	4 years	*
BSc Ecology and Environmental Biology	3 years	C180
BSc Microbiology	3 years	C500

\* Transfer to this course is only available after you start – you must apply to C100 in the first instance.

Courses are also available in Biochemistry/Biotechnology (see pages 40–41). While transfer is possible between all the courses on this page (excluding Languages for Science), it is not possible to transfer from a Biological Sciences course to a course within the Biochemistry/Biotechnology stream after entry.

If you're thinking of applying for more than one of these courses, please contact the Department for advice.

## GET IN TOUCH

T: +44 (0)20 7594 5398  
E: lifesciences.admissions@imperial.ac.uk

[www.imperial.ac.uk/study/ug/life-sciences](http://www.imperial.ac.uk/study/ug/life-sciences)



# CHEMICAL ENGINEERING



You'll learn hands-on engineering and problem-solving skills in our state-of-the-art laboratories.



**2ND IN THE UK**  
*The Times and The Sunday Times Good University Guide 2021*



**PROFESSIONALLY ACCREDITED COURSES**



**YEAR ABROAD (in Europe, Singapore or USA)**



**SPECIALIST TEACHING IN NUCLEAR ENGINEERING**

The design of processes for creating products we all depend on, from food to fuel, and chemicals to pharmaceuticals.

## WHY IMPERIAL?

Chemical engineers turn raw materials into the products we use everyday, from the food we eat to the clothes we wear and the energy that powers our world.

We were the first chemical engineering department in the country, and we're still leading the way today with cutting-edge facilities, like the world's most advanced Carbon Capture Pilot Plant in an educational facility.

But our pride and pioneering reputation really comes from our amazing people: those who have studied and taught here in the past, and those who will in the future. People like you.

Studying chemical engineering at Imperial will give you access to unrivalled expertise as well as a hands-on experience of invaluable practical skills. A high level of industry input means our curriculum stays right at the cutting edge. It also means we can offer lots of guest talks and lectures, industry-led projects, sponsorship of prizes and options for amazing vacation placements.

## WHAT YOU'LL STUDY

For the first two years, you'll study a range of core topics in science and mathematics and how they apply to practical engineering problems. You'll analyse a variety of chemical processes and learn about the many ways of mixing, reacting and separating different gases, liquids and solids on a large scale. We'll also introduce you to the basic social, economic and environmental factors that affect industrial operations.

In your third year, you'll study more advanced subjects like environmental engineering, and be able to choose from optional modules that include business and humanities options.

In the fourth year, you have even more freedom to follow what inspires you through an advanced research project and a broad choice of technical modules from across the Faculty of Engineering.

The Nuclear Engineering pathway offers specialist third- and fourth-year modules covering topics like nuclear thermal hydraulics, nuclear materials and reactor physics. Or, if your marks are 60% or above, there's the option of spending your third year abroad.

## OUR COURSES

Qualification and title	Length	UCAS code
MEng Chemical Engineering	4 years	H801
MEng Chemical with Nuclear Engineering	4 years	*
MEng Chemical Engineering with a Year Abroad	4 years	*

\* Transfer to this course is only available after you start – you must apply to H801 in the first instance.

All our courses are professionally accredited by the Institution of Chemical Engineers (IChemE).

Third-year student Zahra in our Carbon Capture Pilot Plant, which is the most advanced facility of its kind in any university in the world.



## ENTRY REQUIREMENTS

### A-levels

**Minimum entry requirement:** A\*A\*A  
**Typical offer:** A\*A\*A to A\*A\*A\* (students taking three A-levels)  
A\*A\*AA (students taking four A-levels)

### International Baccalaureate

**Minimum entry requirement:** 39 points  
**Typical offer:** 41 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

Our graduates pursue a wide choice of careers in the process, energy and healthcare industries, and in companies involved in the design and construction of chemical plants. Many have also entered research organisations, public utilities, consultancy and IT.

### Recent graduates have become ...

- Graduate Scientist, National Nuclear Laboratory
- Investment Banking Analyst, Deutsche Bank
- Supply Chain Coordinator, an international oil and gas company
- Software Engineer Analyst, JPMorgan Chase
- Chemical Engineer, BP

## GET IN TOUCH

T: +44 (0)20 7594 5569  
E: ce-admissions@imperial.ac.uk

[www.imperial.ac.uk/study/ug/chemical-engineering](http://www.imperial.ac.uk/study/ug/chemical-engineering)



# CHEMISTRY

You'll take part in a wide range of laboratory-based activities in the Department.



**MANAGEMENT  
YEAR AVAILABLE**



**PROFESSIONALLY  
ACCREDITED  
COURSES**



**YEAR/RESEARCH  
ABROAD  
(in Europe,  
Singapore  
or Australia)**



**YEAR IN  
INDUSTRY**

The composition, behaviour, structure and properties of everything we can see, smell, touch and taste.

## WHY IMPERIAL?

Often called the 'central science', chemistry combines mathematics and physics with the life sciences and applied sciences, like medicine and engineering. Our researchers are working to develop new cancer treatments, create self-healing materials and make chemistry more sustainable.

Chemistry at Imperial is all about training you to become an expert in your field through problem-solving and hands-on practical experience. With state-of-the-art facilities at both our main base in South Kensington and at the Molecular Sciences Research Hub at our White City Campus, we're one of the leading chemistry departments in the UK.

The flexibility of our courses lets you follow your own path, whether that's through a year abroad, in industry or research, combining your studies with languages or management, or the enormous variety of modules inspired by our research.

## WHAT YOU'LL STUDY

On all of our courses, you'll study the same core interdisciplinary modules, alongside optional modules designed to match your interests or the course you choose. This structure means you can transfer between our chemistry courses later, as long as you've studied the appropriate optional modules.

Whatever course you choose, lab work will be a key part of it. This is designed to develop your practical, analytical and theoretical skills, and help you gain confidence, in applying a large number of different experimental approaches and in communicating the results.

Our modules cover interconnected topics across inorganic, organic and physical chemistry in each year of study. In the fourth year of our MSci courses, you can follow a broad or specialised programme by choosing from a selection of advanced topics, including nanomaterials, drug discovery, renewable energy and advanced catalysis.

## OUR COURSES

Qualification and title	Length	UCAS code
BSc Chemistry	3 years	F100
MSci Chemistry	4 years	F103
MSci Chemistry with a Year in Industry	5 years	F105
MSci Chemistry with French for Science	4 years	F1R1
MSci Chemistry with German for Science	4 years	F1R2
MSci Chemistry with Spanish for Science	4 years	F1R4
BSc Chemistry with Management	4 years	F1NF
BSc Chemistry with Management and a Year in Industry	5 years	FN11
MSci Chemistry with Medicinal Chemistry	4 years	F124
MSci Chemistry with Medicinal Chemistry and a Year in Industry	5 years	F125
MSci Chemistry with Molecular Physics	4 years	F1F3
MSci Chemistry with Molecular Physics and a Year in Industry	5 years	F1FH
MSci Chemistry with Research Abroad	4 years	F104
MSci Chemistry with Research Abroad and a Year in Industry	5 years	F101

Our courses are professionally accredited by the Royal Society of Chemistry.

You should only apply for one of these courses as in-Department transfer is usually possible after enrolment.

## ENTRY REQUIREMENTS

### A-levels

Minimum entry requirement: AAA  
Typical offer: AAA to A\*AA

### International Baccalaureate

Minimum entry requirement: 38 points  
Typical offer: 39–40 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

Chemistry informs everything, from developing new pharmaceuticals that will help fight disease, to mitigating climate change. This means our graduates are recruited into practically every branch of industry. Many choose to pursue a PhD, while others work in roles as diverse as industrial development, production and quality control, marketing, finance and teaching.

### Recent graduates have become ...

- Process Scientist, a drug discovery and development company
- Data Scientist, Tesco
- Graduate Audit Trainee, KPMG
- Research Scientist, a global snack company
- Graduate Scientist, Ministry of Defence

## GET IN TOUCH

T: +44 (0)20 7594 5721  
E: [ch.admissions@imperial.ac.uk](mailto:ch.admissions@imperial.ac.uk)

[www.imperial.ac.uk/study/ug/chemistry](http://www.imperial.ac.uk/study/ug/chemistry)



# CIVIL AND ENVIRONMENTAL ENGINEERING



You'll have the option to take part in our annual Constructionarium, a radical design course where you'll work on real engineering projects at a bespoke construction site.



**4TH IN THE UK**  
*The Times and The Sunday Times Good University Guide 2021*



**PROFESSIONALLY ACCREDITED COURSES**



**YEAR ABROAD**  
(in Europe, Hong Kong, Australia or USA)



**INVALUABLE EXPERIENCE IN CONSTRUCTION**

Creating the world we live in, from buildings and bridges to safe drinking water and the transport systems of tomorrow.

## WHY IMPERIAL?

Civil engineers design, build and maintain the foundations of our world – from airports to energy systems, and from clean drinking water to a cleaner environment.

At Imperial, you'll learn from pioneering researchers and have access to state-of-the-art facilities that include a range of testing rigs, extensive computing provision, tension and compression machines, and wave generators and tanks.

Strong industry links across the Department mean you'll also benefit from a high level of real-world insight, through guest talks and lectures, industry-led projects and sponsorship of student prizes.

## WHAT YOU'LL STUDY

Your first two years will be about building a foundation in engineering science, mathematics and technology. Topics include geotechnics, energy systems, statistics and professional engineering practice. You'll also take part in engineering design projects, and attend a surveying field course in year one and a geology field course in year two.

Your second year ends with the week-long Constructionarium course at the National Construction College Campus in Norfolk, where you'll work in teams to build scaled-down versions of well-known buildings, bridges and dams.

In your final two years, you can continue with a broad programme or tailor your studies more to your interests by specialising in structural engineering, environmental engineering, fluid mechanics, geotechnics or transport engineering.

If your average marks are 67% or above in your first two years, you'll have a chance to study abroad at one of our partner universities, currently including institutions in Australia, Hong Kong, the USA and across Europe.

## OUR COURSES

Qualification and title	Length	UCAS code
MEng Civil Engineering	4 years	H201
MEng Civil Engineering with a Year Abroad	4 years	H202

Our courses are professionally accredited by the Joint Board of Moderators (JBM), which is made up of the Institution of Civil Engineers (ICE), the Institution of Structural Engineers (IStructE), the Chartered Institution of Highways and Transportation (CIHT) and the Institute of Highway Engineers (IHE).

If you're thinking of applying for more than one of these courses, please contact the Department for advice.

Undergraduate Civil Engineering students practising their sketching and modelling skills.



## ENTRY REQUIREMENTS

### A-levels

**Minimum entry requirement:**

A\*A\*A or A\*AAA

**Typical offer:** A\*A\*A

### International Baccalaureate

**Minimum entry requirement:** 39 points

**Typical offer:** 39 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

Throughout your course, you'll meet and network with representatives from industry, and start to build relationships that can turn into exciting careers when you graduate.

Many of our graduates continue on to postgraduate study, while others work in areas including technical consultancy, transport planning, teaching, and banking and finance.

### Recent graduates have become ...

- Graduate Transport Planner, Mott MacDonald
- Offshore Structural Engineer, Shell
- Structural Engineer, an engineering services company
- Graduate Civil Engineer, Transport for London
- Geotechnical Engineer, Jacobs

## GET IN TOUCH

T: +44 (0)207 594 5965

E: [ciugo@imperial.ac.uk](mailto:ciugo@imperial.ac.uk)

[www.imperial.ac.uk/study/ug/civil-engineering](http://www.imperial.ac.uk/study/ug/civil-engineering)



# COMPUTING



You'll use computing equipment and facilities which are at the cutting edge, including teaching laboratories, workstations, and specialist hardware and software.

**3RD IN THE UK**  
*The Times and The Sunday Times Good University Guide 2021*

**PROFESSIONALLY ACCREDITED COURSES**

**INTERNATIONAL STUDY PROGRAMME (in Europe or USA)**

**JOINT MATHEMATICS AND COMPUTER SCIENCE COURSES**

Engineering computer hardware and software, and studying the mathematical principles of computing.

## WHY IMPERIAL?

Computing at Imperial is helping to change the world we live in. As well as giving you core computing skills, you'll learn the fundamental mathematical and engineering principles that underpin them. So you'll understand what's happening today and how to adapt to what happens tomorrow.

We have strong links with industry, so you'll be able to take advantage of industry-led research projects, guest talks and lectures, as well as placements at a range of companies and organisations.

You'll have access to some of the best computing facilities in the UK, including three supercomputers for high-performance computing and data science. You'll also be taught by researchers who are working on potentially life-saving research – like Dr Ben Glocker and Miguel Monteiro Aires Barros, who have developed an AI algorithm that can identify different types of brain injury.

## WHAT YOU'LL STUDY

All of our computing courses follow the same structure for the first two years, so you can move between any of them, including BEng and MEng.

The third year of all our BEng and MEng courses involves a group project and an industrial placement which allows you to apply your computing knowledge in a real-world setting. Recent placements have been in the UK, China, Europe and the USA. There's also the option to spend a year studying abroad at one of our partner universities.

In the final year of both the MEng and BEng, you'll choose more specialised modules, and spend around eight months working on an individual project to gain valuable experience of modern research methods.

If you follow one of our specialised pathways (Management and Finance, Security and Reliability, Software Engineering or Visual Computing and Robotics), you'll choose optional modules relevant to that specialism.

### Joint Mathematics and Computer Science

Our Joint Honours courses are taught equally by the Departments of Computing and Mathematics. They provide a firm foundation in mathematics, particularly in pure mathematics, numerical analysis and statistics, as well as all the essentials of computer science.

In your first two years, you'll take set modules from each Department, with some options available in your second year, as well as group and individual projects. In the third and fourth years, you'll choose more specialised modules. MEng students also complete an industrial placement.

## OUR COURSES

Qualification and title	Length	UCAS code
BEng Computing	3 years	G400
MEng Computing	4 years	G401
MEng Computing (Artificial Intelligence and Machine Learning)	4 years	G700
MEng Computing (International Programme of Study)	4 years	G402
MEng Computing (Management and Finance)	4 years	G501
MEng Computing (Security and Reliability)	4 years	G610
MEng Computing (Software Engineering)	4 years	G600
MEng Computing (Visual Computing and Robotics)	4 years	GG47
BEng Mathematics and Computer Science	3 years	GG14
MEng Mathematics and Computer Science	4 years	GG41

All of our courses are professionally accredited by The Institution of Engineering and Technology (IET) and the Chartered Institute for IT (BSC).

You should only apply for one of our Computing courses as in-Department transfer is usually possible after enrolment. It is not possible to transfer automatically from a Computing course to our Joint Mathematics and Computer Science courses after enrolment.

## ENTRY REQUIREMENTS

### COMPUTING

#### A-levels

**Minimum entry requirement:**

A\*A\*A or A\*AAA

**Typical offer:**

A\*A\*A (students taking three A-levels)

A\*AAA (students taking four A-levels)

#### International Baccalaureate

**Minimum entry requirement:** 39 points

**Typical offer:** 42 points

### JOINT MATHEMATICS AND COMPUTING

#### A-levels

**Minimum entry requirement:** A\*A\*A

**Typical offer:**

A\*A\*A (students taking three A-levels)

A\*AAA (students taking four A-levels)

#### International Baccalaureate

**Minimum entry requirement:** 40 points

**Typical offer:** 42 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

Some of our graduates join large companies or start their own business.

### Recent graduates have become ...

- Software Engineers at Amazon, Facebook UK, Google and Microsoft
- Applications Developer, Apple
- Cyber Security Specialist, BP
- Technology Analyst, Goldman Sachs
- Co-founder, a video games startup

## GET IN TOUCH

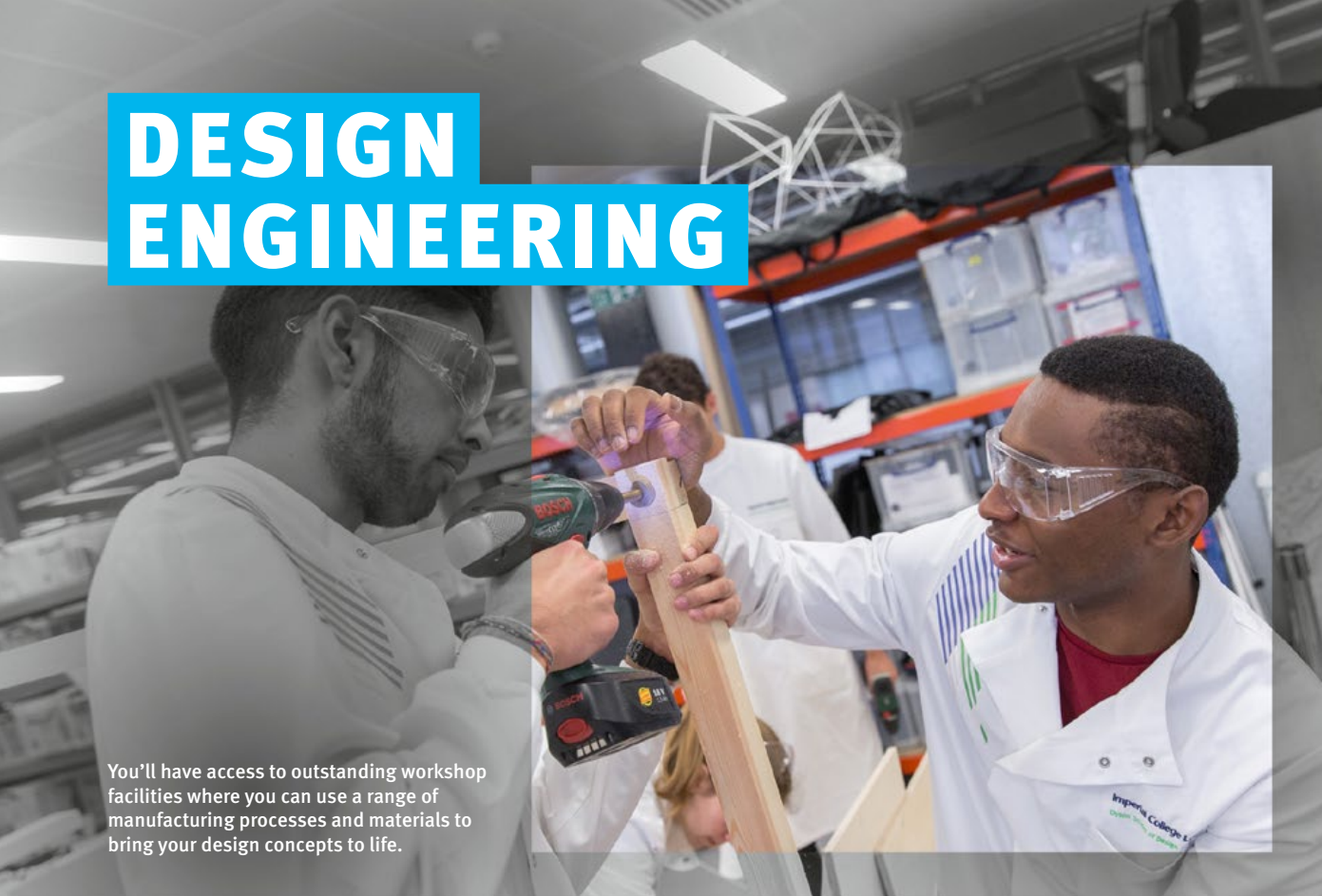
T: +44 (0) 20 7594 8267

E: doc-ugadmissions@imperial.ac.uk

[www.imperial.ac.uk/study/ug/computing](http://www.imperial.ac.uk/study/ug/computing)



# DESIGN ENGINEERING



You'll have access to outstanding workshop facilities where you can use a range of manufacturing processes and materials to bring your design concepts to life.



**STRONG EMPHASIS ON ENTERPRISE AND INNOVATION**

The fusion of design thinking, engineering expertise and a culture of innovation and enterprise.



**PROFESSIONALLY ACCREDITED COURSE**

## WHY IMPERIAL?

Think creativity is just for artists? Think again. Studying design engineering at Imperial means joining an inspiring community of makers, innovators, entrepreneurs and creative thinkers, as well as staff and students from the neighbouring Royal College of Art – partners in our two postgraduate Design Engineering degrees.



**WORLD-LEADING FACILITIES IN THE NEW DYSON BUILDING**

You'll have access to hackspaces and workshops, design studios and laboratories, presentation spaces and networking areas, not to mention the range of world-leading facilities in the Dyson Building – opened in 2018 with support from a £12 million donation from the James Dyson Foundation.



**INTEGRATED PAID INDUSTRIAL PLACEMENT**

Our great relationship with industry means you can take part in a paid six month placement, which is built into the course.

## WHAT YOU'LL STUDY

This course will help you develop a range of fundamental design and engineering skills, with a particular emphasis on creativity, group work, optimisation, design process, and the enterprise experience necessary to bring brand new products to market.

You'll take on a number of project and coursework modules which increase in scale and complexity each year, building to an Enterprise Roll Out module in the final year where you'll market one of the projects you've already prototyped.

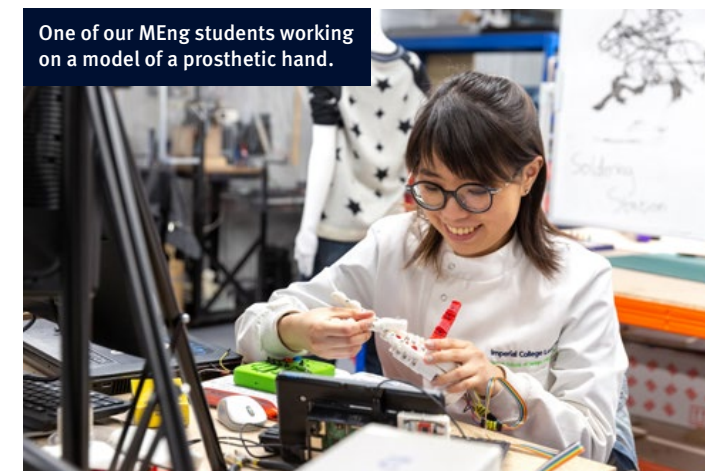
In your first and second years, you'll focus on foundation engineering topics, computing, mathematics and design. In your third and fourth years, you'll move on to more advanced design and engineering, as well as enterprise and entrepreneurship skills. A choice of optional modules, like robotics industrial design or artificial intelligence and design, will let you specialise in the areas you're most interested in, and you'll complete a major individual project in the fourth year.

A six-month paid industrial placement is built into the course, starting in April of your third year. Companies that have already hosted our placement students include Dyson, Adidas, Procter & Gamble, and Airbus.

## OUR COURSES

Qualification and title	Length	UCAS code
MEng Design Engineering	4 years	28G3

This course is professionally accredited by the Institution of Engineering and Technology (IET) and Institution of Mechanical Engineers (IMechE).



One of our MEng students working on a model of a prosthetic hand.

## ENTRY REQUIREMENTS

### A-levels

Minimum entry requirement: A\*AA  
Typical offer: A\*AA to A\*A\*A

### International Baccalaureate

Minimum entry requirement: 39 points  
Typical offer: 39–40 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

Our course, launched in 2015, nurtures the creativity, enterprise skills and industrial experience that will appeal to a wide range of industries.

Our first students graduated in 2019. They work in similar careers as graduates of our postgraduate courses in Global Innovation Design and Innovation Design Engineering, who now work for companies including Samsung, Apple and Bentley, as well as founding their own startups such as Bare Conductive and Omlet.

## GET IN TOUCH

T: +44 (0) 20 7594 8888  
E: [design.engineering@imperial.ac.uk](mailto:design.engineering@imperial.ac.uk)

[www.imperial.ac.uk/study/ug/design-engineering](http://www.imperial.ac.uk/study/ug/design-engineering)



# ELECTRICAL AND ELECTRONIC ENGINEERING

Team-based projects make up a large part of our courses. The projects get more complex each year to match your growing knowledge, skills and experience.



**2ND IN THE UK**  
*The Times and The Sunday Times Good University Guide 2021*



**PROFESSIONALLY ACCREDITED COURSES**



**YEAR ABROAD (in Europe, Singapore or USA)**



**INTEGRATED INDUSTRIAL PLACEMENT**

The design and application of technologies that connect our world, helping us to live better, more healthily and sustainably.

## WHY IMPERIAL?

Electricity powers almost every tool we use in our lives. You'll learn about the processes behind this and how to apply them to build everything from smartphones to driverless cars – and find solutions to problems we haven't even imagined yet.

Our Department of Electrical and Electronic Engineering is among the top teaching and research departments in the UK (8th, QS World University Rankings by Subject 2021: Engineering and Technology). Our courses are shaped by the work of our world-leading academics and researchers. Our strong relationships with industry allow us to offer integrated six-month industrial placements or industry-led group projects, and pathways that combine technical and management skills or increased software skills.

But what's really exciting about studying Electrical and Electronic Engineering at Imperial is the community of amazingly talented students that you'll join. Because it's no exaggeration to say that you'll be part a cohort who may one day help to make the world a cleaner, better-connected place to live.

## WHAT YOU'LL STUDY

In the first two years of all our courses, you'll cover mostly the same core topics, before taking on more specialised modules in later years. You'll learn through a combination of lectures, team-based projects, personal tutorials and laboratory experiments.

In the third year, MEng students can choose between spending six months on an assessed industrial placement to tackle a project that has real business impact, or completing a three-month group project, acting as a consultant on an industry-defined brief. In your final year, you'll complete an individual project to develop innovative solutions to a real present-day problem.

If you study our Electrical and Electronic Engineering degree, you'll cover topics ranging from nano-devices in integrated circuits for signal processing to high power electronics for renewable energy within a smart power transmission grid.

You will also have the option to follow our management pathway, which swaps some technical modules in the third and fourth years for topics like accounting and entrepreneurship taught by Imperial College London Business School.

If you study our Electronic and Information Engineering degree, you'll gain a deeper understanding of modern networked computers, from the central processing unit in a smartphone, to the operating systems and databases providing back-end support in the cloud.

On both courses, if your average marks are 65% or above at the time of selection, you'll have a chance to study abroad at one of our partner universities.

## OUR COURSES

Qualification and title	Length	UCAS code
BEng Electrical and Electronic Engineering	3 years	H600
MEng Electrical and Electronic Engineering	4 years	H604
MEng Electrical and Electronic Engineering with a Year Abroad	4 years	*
MEng Electrical and Electronic Engineering with Management	4 years	H6N2
BEng Electronic and Information Engineering	3 years	HG65
MEng Electronic and Information Engineering	4 years	GH56
MEng Electronic and Information Engineering with a Year Abroad	4 years	*

\* If you're interested in Electrical and Electronic Engineering with a Year Abroad you must apply to H604 in the first instance; for Electronic and Information Engineering with a Year Abroad, please apply to GH56.

All of our courses are professionally accredited by the Institution of Engineering and Technology (IET). Imperial College London is a member of the IET's Power Academy and the UK Electronic Skills Foundation (UKESF), which supports UK students through scholarships.

You should only apply for one of these courses as in-Department transfer is usually possible after enrolment.

## ENTRY REQUIREMENTS

### A-levels

Minimum entry requirement: A\*AA  
Typical offer: A\*AA

### International Baccalaureate

Minimum entry requirement: 38 points  
Typical offer: 38–40 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

In every industry where you find modern technology, you'll also find our graduates. Because of the diversity of our field, our students go on to careers in every type of organisation you could imagine, from energy suppliers to investment banks, from computer game designers to car manufacturers.

### Recent graduates have become ...

- Electronics Engineer, Sony
- Chassis Electronics Engineer, a multinational automotive company
- Software Engineer, Goldman Sachs
- Technology Analyst, Bank of America and BofA Securities
- Low Carbon Engineer, an electricity distribution company

## GET IN TOUCH

T: +44 (0)20 7594 6198  
E: [admit.eee@imperial.ac.uk](mailto:admit.eee@imperial.ac.uk)

[www.imperial.ac.uk/study/ug/electrical-engineering](http://www.imperial.ac.uk/study/ug/electrical-engineering)



# GEOLOGY, GEOPHYSICS AND PLANETARY SCIENCE

You'll take part in fieldwork to gain a number of skills, such as sketching, sedimentary logging and geological mapping.



**2ND IN THE UK**  
*The Times and  
The Sunday Times  
Good University  
Guide 2021*



**PROFESSIONALLY  
ACCREDITED  
COURSES**



**YEAR ABROAD  
(in Australia,  
Canada, Europe  
or USA)**



**STRONG  
EMPHASIS ON  
FIELDWORK  
TO DEVELOP  
PRACTICAL SKILLS**

Exploring the processes that have shaped Earth and other planets in our Solar System and beyond.

## WHY IMPERIAL?

From the seas to the stars, from the earth's core to its changing climate, if it's under the sun – or revolves around it – we want to understand how it was formed, how it behaves and what its future holds.

You'll join a close-knit community in the Department of Earth Science and Engineering. We're based in the Royal School of Mines – a historic building on the outside with futuristic facilities inside. You'll also have access to an excellent collection of rocks and minerals, and one of the finest fossil and mineral collections in the world just down the road at the Natural History Museum.

You'll receive expert teaching from our leading researchers and academics, and apply it on field trips across the UK and Europe, while forging friendships that will last a lifetime.

## WHAT YOU'LL STUDY

We offer three main degree courses. Earth and Planetary Science is about understanding the Earth and other planets through observation, particularly of geological and geophysical processes. Geology is the study of the Earth and how its interior, surface and atmosphere interact. And Geophysics focuses, in particular, on how physical laws apply to the study of the Earth.

In your first year, all courses cover the fundamentals of geosciences, including topics like surface processes and structural geology.

Your first year ends in a residential field trip, currently to Spain. Year two is designed to deepen your knowledge of the geosciences and also includes field trips for Geology students, currently to the Pyrenees and Scotland.

If you study Geophysics and you'll focus further on maths and numerical methods. You'll also go on a field trip, currently to Cyprus, where you'll learn a range of near-surface geophysics field techniques.

In years three and four, you'll specialise according to your chosen course and complete an independent study in the laboratory or in the field.

MSci students, who are getting marks of 70% or above in the first two years, and who are registered for the scheme, can apply to spend their third year abroad following an interview.

## OUR COURSES

Qualification and title	Length	UCAS code
BSc Earth and Planetary Science	3 years	F64B
MSci Earth and Planetary Science	4 years	F647
MSci Earth and Planetary Science with a Year Abroad	4 years	F520
BSc Geology	3 years	F600
MSci Geology	4 years	F640
MSci Geology with a Year Abroad	4 years	F601
BSc Geophysics	3 years	F662
MSci Geophysics	4 years	F660
MSci Geophysics with a Year Abroad	4 years	F664

Our Geology and Geophysics courses are professionally accredited by the Geological Society. Earth and Planetary Science is a new degree and so is not yet professionally accredited. We are currently seeking this professional accreditation. If successful, it is likely to be applied retrospectively.

If you're thinking of applying for more than one of these courses, please contact the Department for advice.

## ENTRY REQUIREMENTS

### A-levels

Minimum entry requirement: AAA  
Typical offer: AAA

### International Baccalaureate

Minimum entry requirement: 38 points  
Typical offer: 38–39 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

Earth Science is increasingly crucial in helping to tackle some of the world's most significant challenges, so demand for our graduates is high. Our three-year BSc degrees are excellent preparation for careers in geosciences and other professions, especially if followed by a relevant MSc and a research degree. Our four-year MSci degrees provide a deeper understanding of the subject and the chance to take on a significant research project.

### Recent graduates have become ...

- Graduate Engineering Geologist, Mott MacDonald
- Risk Consultant, KPMG
- Trainee Field Geophysicist, an oilfield services provider
- Spatial Data Infrastructure team, a global IT and business consulting service
- Research Assistant, a natural history museum

## GET IN TOUCH

T: +44 (0)20 7594 6478  
E: [admit.earth@imperial.ac.uk](mailto:admit.earth@imperial.ac.uk)

[www.imperial.ac.uk/study/ug/earth-science](http://www.imperial.ac.uk/study/ug/earth-science)



# MATERIALS SCIENCE AND ENGINEERING



First-year Materials students preparing samples for microscopic observations using abrasive particles of silicon carbide paper.



**6TH IN THE UK**  
*The Times and The Sunday Times Good University Guide 2021*



**PROFESSIONALLY ACCREDITED COURSES**



**STRONG FOCUS ON MATERIALS AT THE NANOSCALE**



**NUCLEAR ENGINEERING SPECIALISM**

Understanding and exploiting the relationship between the structure, processing and properties of materials for technological applications.

## WHY IMPERIAL?

Materials scientists at Imperial develop and study a range of materials with a world of different uses, from spacecraft and nuclear engineering, to solar cells and biomaterials that help repair human tissue. Our courses involve physics, biology, mathematics, chemistry and plenty more besides, so if you're looking for variety and want to gain lots of different skills, you've come to the right place.

Join us and you'll become part of an outstanding research community with world-leading expertise, cutting-edge equipment and advanced tools for materials imaging and characterisation. You'll also do your own research project, which could take you to facilities elsewhere in the UK or even overseas. And our extensive relationships across industry will help set you up for a rewarding career making things better by making better things.

## WHAT YOU'LL STUDY

Whichever course you go for, you'll follow a common core curriculum covering the fundamentals of materials science and engineering.

Experimental work is at the heart of all our courses, starting with a series of lab tutorials that introduce key starting ideas and techniques in a practical setting. You'll then move on to more extended lab work, including a case study project where you'll use cutting-edge techniques like electron microscopy and X-ray scattering to analyse the materials in a consumer product.

As your course progresses, you'll cover the instrumental approaches used to measure and image materials. You'll also understand the common principles of most engineering disciplines, like basic mechanics, technical drawing and an introduction to business.

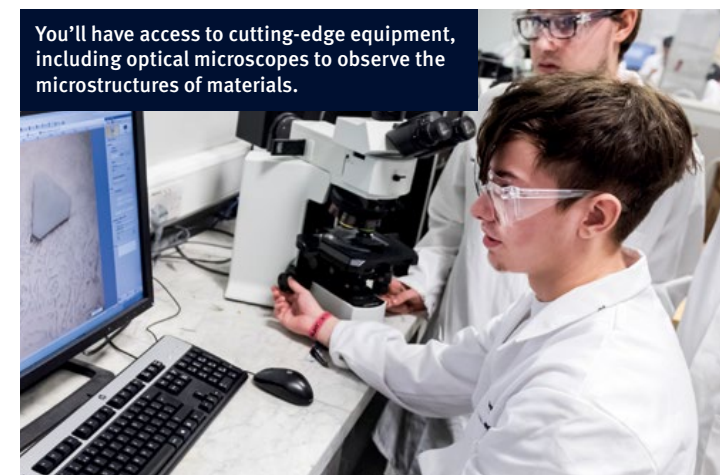
The MEng builds on the BEng with advanced optional courses and a major individual research project.

## OUR COURSES

Qualification and title	Length	UCAS code
MEng Biomaterials and Tissue Engineering	4 years	BJ95
BEng Materials Science and Engineering	3 years	JF52
MEng Materials Science and Engineering	4 years	JFM2
BEng Materials with Management	3 years	J5N2
MEng Materials with Nuclear Engineering	4 years	J5H8

All our courses are professionally accredited by the Institute of Materials, Minerals and Mining (IOM3).

You should only apply for one of these courses as in-Department transfer is usually possible after enrolment.



## ENTRY REQUIREMENTS

### A-levels

Minimum entry requirement: AAA  
Typical offer: AAA to A\*AA

### International Baccalaureate

Minimum entry requirement: 38 points  
Typical offer: 39–41 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

You could go into a wide variety of sectors, from chemicals manufacturing and pharmaceuticals to emerging sectors like nanotechnology or biomedical materials. Or you could apply your skills to something completely different, like finance or design.

### Recent graduates have become ...

- Graduate Engineer, a multinational automotive company
- Software Development Engineer, Amazon
- Management Consultant, EY
- Material Scientist, Rolls-Royce
- Quality Excellence Engineer, Johnson & Johnson

## GET IN TOUCH

T: +44 (0)20 7594 6728  
E: materials@imperial.ac.uk

[www.imperial.ac.uk/study/ug/materials](http://www.imperial.ac.uk/study/ug/materials)



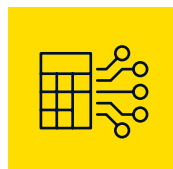
# MATHEMATICS



You'll learn through a series of lectures, tutorials, and problem-solving and group learning classes.



**4TH IN THE UK**  
The Times and  
The Sunday Times  
Good University  
Guide 2021



**JOINT  
MATHEMATICS  
AND COMPUTER  
SCIENCE  
COURSES**



**YEAR ABROAD  
IN EUROPE**



**STUDENT  
MATHEMATICAL  
PUZZLE-SOLVING  
GROUP**

Dive into the ever-evolving discipline of mathematics – from theory through to application in solving real-life problems.

## WHY IMPERIAL?

Everything we do here at Imperial – and most of what we do in life – starts with mathematics. In fact, our carbon capture plants and supersonic wind tunnels, our nanotechnologies and nuclear engineering specialisms simply wouldn't exist without mathematics.

Studying it at Imperial means joining some of the world's most eminent researchers – people like Professor Martin Hairer who won the 2021 Breakthrough Prize in Mathematics for his contribution to the theory of stochastic analysis. Their expertise influences a teaching programme that spans applied mathematics and mathematical physics, mathematical finance, pure mathematics and statistics. This opens up a huge choice of options as your course progresses, with all the freedom you need to follow your own path.

Other opportunities include the chance to complete an integrated year abroad or study a Joint Honours degree with Computing. And you can also join Plus!, our problem-solving group, and our student-led weekly lecture series, the Undergraduate Colloquium.

## WHAT YOU'LL STUDY

All of our courses follow the same programme in the first year and share a common core curriculum in the second. This includes areas you'll need later on including linear algebra, applied mathematics, probability and statistics, differential equations and numerical analysis.

In your third and fourth years, you can choose from a range of options in topics like pure mathematics, mathematical physics, applied mathematics, and mathematical methods and statistics. You'll also take part in both independent and group research.

The flexibility of our courses allows you to specialise in a range of areas, including applied mathematics and mathematical physics, mathematical computation, pure mathematics, statistics and statistics for finance.

With marks of 60% and above by the end of your second year, you can also apply to spend your third year studying at one of our partner universities across Europe.

## OUR COURSES

Qualification and title	Length	UCAS code
BSc Mathematics	3 years	G100
MSci Mathematics	4 years	G103
BSc Mathematics (Pure Mathematics)	3 years	G125
BSc Mathematics with Applied Mathematics/ Mathematical Physics	3 years	G1F3
MSci Mathematics with a Year Abroad	4 years	G104
BSc Mathematics with Mathematical Computation	3 years	G102
BSc Mathematics with Statistics	3 years	G1G3
BSc Mathematics with Statistics for Finance	3 years	GG1GH

You should only apply for one of these courses as in-Department transfer is usually possible after enrolment. Note that it is not possible to transfer from a Mathematics course to our Joint Mathematics and Computer Science courses after enrolment.

See page 52–53 to find out more about our Joint Mathematics and Computer Science degrees administered by the Department of Computing.

## ENTRY REQUIREMENTS

### A-levels

**Minimum entry requirement:** A\*A\*A

**Typical offer:**

A\*A\*A to A\*A\*A\* (students taking three A-levels)

A\*A\*AA (students taking four A-levels)

### International Baccalaureate

**Minimum entry requirement:** 39 points

**Typical offer:** 39–40 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

The logical and analytical skills gained on our mathematics courses are highly valued by a wide range of employers. Our graduates go on to careers in industry, government and education, as well as international banking, computing, business, law and accountancy.

### Recent graduates have become ...

- Quantitative Analyst, a multinational financial services company
- Accountant, KPMG
- Software Developer, a healthcare technology company
- Technology Analyst, Goldman Sachs
- E-Commerce Manager, a UK-based financial services group

## GET IN TOUCH

T: +44 (0)20 7594 8484

E: [ugmaths.admissions@imperial.ac.uk](mailto:ugmaths.admissions@imperial.ac.uk)

[www.imperial.ac.uk/study/ug/mathematics](http://www.imperial.ac.uk/study/ug/mathematics)



# MECHANICAL ENGINEERING



You'll learn to safely operate a mill from your first year, one of many machines in our workshop.



**2ND IN THE UK**  
*The Times and The Sunday Times Good University Guide 2021*



**SPECIALIST TEACHING IN NUCLEAR ENGINEERING**



**YEAR ABROAD (in Australia, Europe, Singapore or USA)**



**YEAR IN INDUSTRY**

Applying mechanical science to a range of real-world challenges, from transport technologies to medical devices.

## WHY IMPERIAL?

This is the oldest and broadest branch of engineering. As a mechanical engineer, you'll develop and design products, and solve problems of all shapes and sizes, picking up skills and knowledge covering practically every other area of engineering. So if you're looking for variety, this is the course for you.

At Imperial, we pride ourselves on turning the brightest, most ambitious students into leading engineers. Our courses will develop your knowledge and skills as well as your imagination and creativity. We work closely with industry to make sure that our courses, facilities and equipment are always state of the art.

Using our well-equipped student workshop, you'll get a real insight into manufacturing. You also have the chance to work on group projects and engage with the Department's current research in areas like sustainable energy, medical engineering, robotics, structural integrity, battery technology and cleaner transport.

## WHAT YOU'LL STUDY

All of our Mechanical Engineering courses start with the same two core years of intensive engineering science, covering areas like thermofluids, mechatronics, stress analysis and design. You'll learn the skills and master the tools you need to produce technical drawings, blueprints and solid models using computer-aided design, then bring those designs to life in hands-on workshop sessions.

Your final two years will be made up of optional modules and two major projects – a group project in year three and a research-orientated individual project in year four. You can choose project topics based on our cutting-edge research or pitch your own ideas.

The optional modules cover core themes of solid mechanics, thermofluids and robotics, as well as areas including sustainable energy, design, art and creativity, machine learning and motorsport technology. From your third year, you can also choose modules taught at Imperial College Business School, and in your fourth, modules taught in other departments, including fluid dynamics (Aeronautics), advanced biomaterials (Materials) and sustainable electrical systems (Electrical and Electronic Engineering).

The Nuclear Engineering pathway offers specialist third- and fourth-year modules covering topics like nuclear thermal hydraulics, nuclear energy and reactor physics. There's also the option of spending a paid year in industry or, if your marks are 65% and above, you can apply to spend your fourth year abroad at one of our partner universities.

## OUR COURSES

Qualification and title	Length	UCAS code
MEng Mechanical Engineering	4 years	H301
MEng Mechanical Engineering with a Year Abroad	4 years	*
MEng Mechanical Engineering with a Year in Industry	5 years	*
MEng Mechanical Engineering with a Year in Industry and a Year Abroad	5 years	*
MEng Mechanical Engineering and a Year Abroad	4 years	*
MEng Mechanical Engineering with Nuclear Engineering and a Year in Industry	5 years	*

\* Transfer to this course is only available after you start – you must apply to H301 in the first instance.

All our courses are professionally accredited by the Institution of Mechanical Engineers (IMechE).

## ENTRY REQUIREMENTS

### A-levels

**Minimum entry requirement:**

A\*A\*A to A\*AAA

**Typical offer:**

A\*A\*A (students taking three A-levels)

A\*AAA to A\*A\*AA (students taking four A-levels)

### International Baccalaureate

**Minimum entry requirement:** 40 points

**Typical offer:** 40 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

Our close industry links mean that even before they leave Imperial, our graduates often already have jobs lined up in areas like Formula One. The chance to specialise in nuclear engineering is also good preparation for an industry that's set to grow. The technical and management skills you'll gain on our Mechanical Engineering courses are also prized in consultancy, technical business roles and project management.

### Recent graduates have become ...

- Mechanical Engineer, European Space Agency
- Graduate Nuclear Engineer, EDF
- Vehicle Dynamics and Simulation Engineer, Formula One
- Offshore Structures Wind Engineer, an engineering and design company
- CEO, a medical prosthetics startup

## GET IN TOUCH

T: +44 (0)20 7594 7005

E: [me.admissions@imperial.ac.uk](mailto:me.admissions@imperial.ac.uk)

[www.imperial.ac.uk/study/ug/mechanical-engineering](http://www.imperial.ac.uk/study/ug/mechanical-engineering)



# MEDICAL BIOSCIENCES



In our 'flipped classroom' approach, you will engage with online content ahead of in-classroom learning – via a tablet we provide you with at the start.



**HIGH LEVEL OF LAB WORK**

The science behind medical treatment in the 21st century.



**TAUGHT BY SCIENTISTS AT THE FOREFRONT OF THEIR FIELD**

## WHY IMPERIAL?

As medical treatments evolve, they depend increasingly on advances in medical biosciences, from epidemiology and public health to infectious diseases expertise. Our experts in the Faculty of Medicine are leading this research – like the inventor of the world's first 'intelligent' surgical knife, which can detect cancerous tissue with 100% accuracy using principles of biochemical analysis.



**MANAGEMENT YEAR AVAILABLE**

Our Medical Biosciences courses pull in expertise and innovations from across our Faculty, keeping your education at the forefront of developments and equipping you with the skills employers value most.



**BLENDED LEARNING (online and face-to-face)**

You'll develop comprehensive research skills in your first year and go on to specialise in the area that excites you the most, like pharmacology or neuroscience. You can also combine your three-year BSc Medical Biosciences course with a fourth year studying Management at Imperial College Business School.

## WHAT YOU'LL STUDY

Our study programme allows you to explore the science behind medicine. You'll understand how it's applied in research, policy and industry, and investigate critical challenges facing human health – like cancer, neurological diseases, obesity and diabetes – from different perspectives.

You'll take on a high level of laboratory work in our 'Lab Pods', practical learning environments that run like real research laboratories and encourage you to think and develop the skills of a scientist. This is complemented by workshops on topics including ethics, creativity, entrepreneurship, publishing, science communication and public engagement.

In your third year you'll choose specialist modules, each examining a global health problem. You'll also take on a third year project with the option to complete an intensive research project of your choice, a non-laboratory placement, or a dissertation on a medical biosciences topic. Placement possibilities may include industry, publishing houses, museums, charities and government agencies.

## OUR COURSES

Qualification and title	Length	UCAS code
BSc Medical Biosciences	3 years	B101
BSc Medical Biosciences with Management	4 years	B111

Please note: these courses are not designed for applicants looking to follow a clinical medicine route and are not accredited by the General Medical Council (GMC).

You will gain experience in practical learning environments which are run like real research laboratories.



## ENTRY REQUIREMENTS

### A-levels

Minimum entry requirement: AAA  
Typical offer: AAA

### International Baccalaureate

Minimum entry requirement: 38 points  
Typical offer: 38 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

Our graduates leave Imperial with highly sought-after transferable, analytical and research skills that open the door to a variety of professional careers. Graduates from our Medical Biosciences courses work in scientific research laboratories within academia, the pharmaceutical industry and technical consultancy roles.

### Recent graduates have become ...

- Research Executive, University of Hong Kong
- Laboratory Technician, A\*STAR
- Project Assistant, a non-profit organisation
- Analyst, Deutsche Bank
- Research Assistant, BBC

## GET IN TOUCH

T: +44 (0)20 7594 7259  
E: [medicine.ug.admissions@imperial.ac.uk](mailto:medicine.ug.admissions@imperial.ac.uk)

[www.imperial.ac.uk/study/ug/medical-biosciences](http://www.imperial.ac.uk/study/ug/medical-biosciences)



# MEDICINE



You'll follow an integrated programme covering the scientific basis of medicine and the foundations of clinical medicine.



**PATIENT CONTACT FROM THE START**

The science of understanding, diagnosing, preventing and curing illness and damage to the human body and mind.



**A BLEND OF TRADITIONAL AND INNOVATIVE TEACHING METHODS**

## WHY IMPERIAL?

We produce outstanding doctors with real-world skills. So, if you come to Imperial, you won't just learn theory – you'll get clinical experience from the very first term. Studying at Imperial means you'll also have access to a large and diverse patient population through our partnerships with NHS Trusts, hospitals and primary care facilities both in and outside London.



**BSc BUILT INTO THE SIX-YEAR MBBS**

You'll grow and develop under the supervision of clinicians and researchers who are internationally renowned in their fields, and spend a year intensively studying a specialist subject of your choice from our 17 different pathways, including Remote Medicine, Neuroscience and Mental Health, Business, and Global Health.



**SPECIALIST PATHWAYS, INCLUDING NEUROSCIENCE AND MENTAL HEALTH**

Our Medicine course is underpinned at every stage by a strong focus on the science. So alongside your MBBS, you'll also graduate with a BSc – and the best possible start to your journey in making a difference to medical practice and improving patient care.

## WHAT YOU'LL STUDY

You'll learn through a combination of innovative and traditional methods, including lectures, small group teaching, laboratory classes and hands-on, problem-based learning. You'll cover the scientific basis of medicine and undertake your own research project. Alongside our teaching, you'll also get patient contact from early on in the course, allowing you to apply the skills you learn as you learn them.

The course is split into three phases, designed to develop your scientific knowledge and research skills, expose you to cutting-edge research, and finally specialise in an area that really sparks your interest.

If you study our six-year MBBS/BSc course you may also be offered the chance to focus further on research by completing a three-year PhD after your BSc year.

### MBBS in Singapore

The Lee Kong Chian School of Medicine (LKCMedicine) offers a five-year undergraduate programme leading to a medical degree (MBBS). This is awarded jointly by Imperial and Nanyang Technology University, Singapore (NTU), and designed primarily to train more local doctors to meet Singapore's healthcare needs.

## OUR COURSES

Qualification and title	Length	UCAS code
MBBS/BSc Medicine	6 years	A100
MBBS/PhD Intercolated PhD option for medical students	8/9 years	*
MBBS Medicine, delivered by Lee Kong Chian School of Medicine (LKCMedicine)	5 years	†

\* Transfer to this course is only available after you start – you must apply to A100 in the first instance.

† To apply for the MBBS delivered at LKCMedicine please use Nanyang Technological University, Singapore's online application portal. Applications are open between October 2021 and March 2022; you should not apply via UCAS. For entry requirements for the MBBS at LKCMedicine, Singapore please visit: [www.lkcmmedicine.ntu.edu.sg](http://www.lkcmmedicine.ntu.edu.sg)

All MBBS courses based at Imperial are professionally accredited by the General Medical Council (GMC). The MBBS degree at LKCMedicine is recognised by the Singapore Medical Council.



You'll learn practical, life-saving procedures such as CPR.

## ENTRY REQUIREMENTS

### A-levels

Minimum entry requirement: AAA  
Typical offer: A\*AA

### International Baccalaureate

Minimum entry requirement: 38 points  
Typical offer: 39 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

You'll graduate with the skills and knowledge to work as a junior doctor in a number of healthcare settings, and be qualified for provisional registration with the General Medical Council (GMC).

As well as practising medicine, our graduates have gone on to excel in biomedical research, the pharmaceutical industry, scientific journalism, and healthcare management.

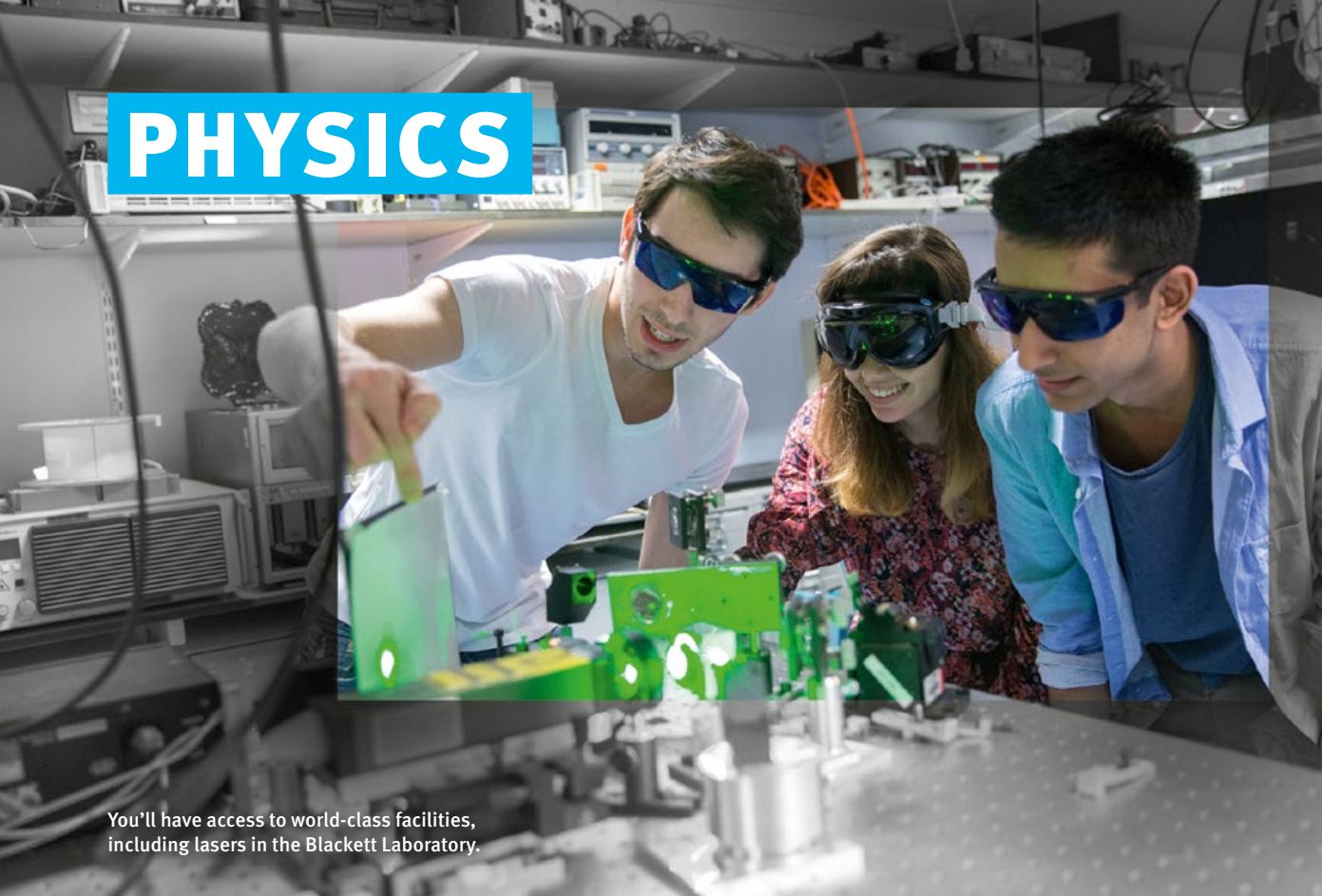
## GET IN TOUCH

T: +44 (0)20 7594 7259  
E: [medicine.ug.admissions@imperial.ac.uk](mailto:medicine.ug.admissions@imperial.ac.uk)

[www.imperial.ac.uk/study/ug/medicine](http://www.imperial.ac.uk/study/ug/medicine)



# PHYSICS



You'll have access to world-class facilities, including lasers in the Blackett Laboratory.



**RESEARCH OPPORTUNITIES FROM THE FIRST YEAR**



**PROFESSIONALLY ACCREDITED COURSES**



**YEAR ABROAD (in Europe or USA)**



**WORLD-CLASS FACILITIES**

The study of the universe and its origins; the understanding of how matter behaves through space and time.

## WHY IMPERIAL?

Ever wondered about the origins of the universe? Want to get to grips with gravitational waves? Or to help develop renewable energy? If you're curious and creative, if you want to understand the world to make it better, Physics at Imperial could be just what you're looking for.

You'll join a vibrant research community, which is contributing to ground-breaking discoveries in fields like string theory, particle physics, and renewable energy. You'll study in world-leading research groups under the supervision of outstanding researchers.

You'll also have the opportunity to do your own research in our world-class facilities, which include high-intensity laser systems and high-performance computing, alongside researchers who have designed instruments used in NASA Cassini and Solar missions.

## WHAT YOU'LL STUDY

All of our courses cover a common core of modules for the first two years to give you a good grounding in the fundamental aspects of physics, mathematics and experimental methods.

Practical work is hugely important. Laboratory classes will equip you with a wide range of hands-on skills like conducting experiments and interpreting data. You'll also learn how to use computers as tools to help model and understand the physics of complicated phenomena.

Later in your course, you'll get a chance to tailor your degree to focus on specific areas that have really sparked your interest. Current areas covered from year three onwards include astrophysics, medical imaging, plasma physics, cosmology, lasers and nanotechnology, as well as more theoretical topics such as general relativity and quantum field theory. All our courses include a substantial final-year project, usually within one of our research groups.

On the Physics with a Year Abroad course, you'll have a chance to study abroad at one of our partner universities, currently in the USA and across Europe, if your average marks are 60% or above in your first two years.

We also offer Physics with Theoretical Physics. This course is ideal for those with a specific interest in mathematics and its application to physics, and places less emphasis on experimental work.

## OUR COURSES

Qualification and title	Length	UCAS code
BSc Physics	3 years	F300
MSci Physics	4 years	F303
MSci Physics with a Year Abroad	4 years	F309
BSc Physics with Theoretical Physics	3 years	F325
MSci Physics with Theoretical Physics	4 years	F390

Our courses are professionally accredited by the Institute of Physics (IOP).

You should only apply for one of these courses as in-Department transfer is usually possible after enrolment.

## ENTRY REQUIREMENTS

### A-levels

Minimum entry requirement: A\*A\*A  
Typical offer: A\*A\*A

### International Baccalaureate

Minimum entry requirement: 40 points  
Typical offer: 40–41 points

Please see pages 72–77 for full entry requirements, including required subjects, for these courses.

## WHERE COULD YOUR DEGREE TAKE YOU?

Many of our graduates go on to study for a higher degree – either a Master's degree, or straight to a PhD and a career in academic research.

Outside academia, our Physics graduates are sought after by a wide range of employers – from the electronics industry where they help design next-generation technologies, to the astrophysics and space technology industry where they're needed to analyse space objects.

### Recent graduates have become ...








- Scientific Officer, Civil Service
- Data Scientist, a cyber risk modelling and prediction platform
- Nuclear Safety Engineer, EDF Energy
- Technology Analyst, Goldman Sachs
- Aerospace Engineer, Rolls-Royce

## GET IN TOUCH

T: +44 (0)20 7594 7513  
E: [ph.admissions@imperial.ac.uk](mailto:ph.admissions@imperial.ac.uk)

[www.imperial.ac.uk/study/ug/physics](http://www.imperial.ac.uk/study/ug/physics)








	A-LEVEL				INTERNATIONAL BACCALAUREATE		ALL STUDENTS	
	Minimum entry requirement and typical offer <sup>†</sup>	Required subjects <sup>‡</sup> and additional requirements	Recommended <sup>‡</sup> and useful <sup>§</sup> subjects		Minimum entry requirement and typical offer <sup>†</sup>	Required subjects <sup>‡</sup> and additional requirements	Interview	Other requirements Information on admissions test requirement is subject to change up to September 2021 <sup>§§</sup>
<b>AERONAUTICS</b> (page 38) Total expected intake*: 139 Application:admissions ratio* = 9:1	Minimum entry: <b>A*A*A or A*AAA</b> Typical offer: <b>A*A*A</b>	<b>To include:</b> A* in Mathematics A*/A in Physics A in a third subject <sup>‡</sup>  An A* is required in Physics if studying three A-levels, or at least an A if studying four A-levels	<b>Recommended subject:</b> Further Mathematics	Minimum entry: <b>40 points</b> Typical offer: <b>40 points</b>	<b>To include:</b> 7 in Mathematics <sup>††</sup> (HL) 7 in Physics (HL)		<b>S English language requirement</b> – A language qualification may be required for Year Abroad courses – International students applying for certain courses in this department require an ATAS certificate before they can apply for a student visa, see page 80 for more information	
<b>BIOCHEMISTRY AND BIOTECHNOLOGY</b> (page 40) Total expected intake*: 160 Application:admissions ratio* = 9:1	Minimum entry: <b>AAA</b> Typical offer: <b>AAA to A*AA</b>	<b>To include:</b> A in Chemistry A in Biology, Mathematics or Physics A in a third subject <sup>‡</sup>		Minimum entry: <b>38 points</b> Typical offer: <b>39 points</b>	<b>To include:</b> 6 in Chemistry (HL) 6 in Biology, Mathematics <sup>††</sup> or Physics (HL)		<b>H English language requirement</b> – Minimum grade B at AS level (or 5 at higher level for IB students) in the relevant language for French/German/Spanish for Science courses	
<b>BIOENGINEERING</b> (page 42) Total expected intake*: 177 Application:admissions ratio* = 4:1	Minimum entry: <b>A*AA</b> Typical offer: <b>A*AA to A*A*A</b>	<b>Biomedical Engineering:</b> <b>To include:</b> A* in Mathematics A in Physics A in a third subject <sup>‡</sup>  <b>Molecular Bioengineering:</b> <b>To include:</b> A* in Mathematics A in Chemistry A in a third subject <sup>‡</sup>	<b>Biomedical Engineering:</b> <b>Useful subjects:</b> Biology, Chemistry or Further Mathematics  <b>Molecular Bioengineering:</b> <b>Useful subjects:</b> Biology, Further Mathematics or Physics	Minimum entry: <b>39 points</b> Typical offer: <b>39–40 points</b>	<b>Biomedical Engineering:</b> <b>To include:</b> 6 in Mathematics <sup>††</sup> (HL) 6 in Physics 6 in a third subject (HL)  <b>Molecular Bioengineering:</b> <b>To include:</b> 6 in Mathematics <sup>††</sup> (HL) 6 in Chemistry 6 in a third subject (HL)		<b>S English language requirement</b> – Admissions exercise for students unable to attend interview	
<b>BIOLOGICAL SCIENCES</b> (page 44) Total expected intake*: 160 Application:admissions ratio* = 7:1	Minimum entry: <b>AAA</b> Typical offer: <b>AAA</b>	<b>To include:</b> A in Biology A in Chemistry, Mathematics or Physics A in a third subject <sup>‡</sup>		Minimum entry: <b>38 points</b> Typical offer: <b>38 points</b>	<b>To include:</b> 6 in Biology (HL) 6 in Chemistry, Mathematics <sup>††</sup> or Physics (HL)		<b>H English language requirement</b> – Minimum grade B at AS level (or 5 at higher level for IB students) in the relevant language for French/German/Spanish for Science courses	
<b>CHEMICAL ENGINEERING</b> (page 46) Total expected intake*: 159 Application:admissions ratio* = 5:1	Minimum entry: <b>A*A*A</b> Typical offer: <b>A*A*A to A*A*A*</b> (students taking three A-levels) <b>A*A*AA</b> (students taking four A-levels)	<b>To include:</b> A* in Chemistry A* in Mathematics A in Biology, Business Studies, Economics, Further Mathematics or Physics  If studying four A-levels, your fourth subject should be in Biology, Business Studies, Economics, Further Mathematics or Physics at grade A		Minimum entry: <b>39 points</b> Typical offer: <b>41 points</b>	<b>To include:</b> 7 in Chemistry (HL) 7 in Mathematics <sup>††</sup> (HL) 6 in Biology, Business Studies, Economics or Physics (HL)		<b>S English language requirement</b> – A language qualification may be required for Year Abroad degree – International students applying for certain courses in this department require an ATAS certificate before they can apply for a student visa, see page 80 for more information	
<b>CHEMISTRY</b> (page 48) Total expected intake*: 160 Application:admissions ratio* = 7:1	Minimum entry: <b>AAA</b> Typical offer: <b>AAA to A*AA</b>	<b>To include:</b> A in Chemistry A in Mathematics A in a third subject <sup>‡</sup>  Physics is required as a third subject for Chemistry with Molecular Physics	<b>Recommended subjects:</b> Biology, Economics, Physics	Minimum entry: <b>38 points</b> Typical offer: <b>39–40 points</b>	<b>To include:</b> 6 in Chemistry (HL) 6 in Mathematics <sup>††</sup> (HL) 6 in a third subject at HL		<b>H English language requirement</b> – International students applying for certain courses in this department require an ATAS certificate before they can apply for a student visa, see page 80 for more information	
<b>CIVIL AND ENVIRONMENTAL ENGINEERING</b> (page 50) Total expected intake*: 104 Application:admissions ratio* = 5:1	Minimum entry: <b>A*A*A or A*AAA</b> Typical offer: <b>A*A*A</b>	<b>To include:</b> A* in Mathematics A*/A in Physics A*/A in a third subject <sup>‡</sup>		Minimum entry: <b>39 points</b> Typical offer: <b>39 points</b>	<b>To include:</b> 7 in Mathematics <sup>††</sup> (HL) 6 in Physics at HL		<b>S English language requirement</b> – Admissions test required. See course page for details: <a href="http://www.imperial.ac.uk/study/ug/courses">www.imperial.ac.uk/study/ug/courses</a> – Online video submission required from applicants who demonstrate potential in their application and cannot attend an interview as part of a selection day	

**Notes**

- † Required subjects: These subjects form part of our minimum standard of entry for students studying A-levels
- ‡ Recommended subjects: These subjects are not required for entry but if available at your school, we recommend you take them
- § Useful subjects: The skills and knowledge gained from studying these subjects may be useful but they are not required for entry
- || Typical offers are calculated on offers made to at least 80% of A-level and International Baccalaureate applicants for 2021 entry – see page 79
- \* Total expected intake and application: admission ratios are based on 2020 entry data
- # Third subject excludes General Studies or Critical Thinking

- †† Mathematics Analysis and Approaches or the Applications and Interpretation syllabi are accepted at higher level
- ## Mathematics Analysis and Approaches (preferred) or the Applications and Interpretation syllabi are accepted at higher level
- §§ If not already required, departments may introduce admission tests for 2022 entry. For the latest information on each department's test arrangements visit: [www.imperial.ac.uk/study/ug/courses](http://www.imperial.ac.uk/study/ug/courses)
- H Higher level College English language requirement applies – see page 79.
- S Standard level College English language requirement applies – see page 79.









	A-LEVEL				INTERNATIONAL BACCALAUREATE		ALL STUDENTS	
	Minimum entry requirement and typical offer <sup>†</sup>	Required subjects <sup>‡</sup> and additional requirements	Recommended <sup>‡</sup> and useful <sup>§</sup> subjects		Minimum entry requirement and typical offer <sup>†</sup>	Required subjects <sup>‡</sup> and additional requirements	Interview	Other requirements Information on admissions test requirement is subject to change up to September 2021 <sup>§§</sup>
<b>COMPUTING</b> (page 52) <b>Computing:</b> Total expected intake*: 163 Application:admissions ratio* = 20:1	<b>Computing:</b> Minimum entry: <b>A*A*A or A*AAA</b> Typical offer: <b>A*A*A</b> (students taking three A-levels) <b>A*AAA</b> (students taking four A-levels)	<b>Computing:</b> <b>To include:</b> A* in Mathematics A*A in two other useful subjects (see right)	<b>Computing:</b> <b>Recommended subjects:</b> Further Mathematics, Computer science, Physics <b>Useful subjects:</b> Ancient Languages, Biology, Chemistry, Economics, Electronics, English Literature, History, Law, Modern Languages, Philosophy, Politics, Psychology		<b>Computing:</b> Minimum entry: <b>39 points</b> Typical offer: <b>42 points</b>	<b>Computing:</b> <b>To include:</b> 7 in Mathematics <sup>††</sup> (HL) 7 in another subject at HL		<b>S English language requirement</b> – Admissions test required. See course page for details: <a href="http://www.imperial.ac.uk/study/ug/courses">www.imperial.ac.uk/study/ug/courses</a> – Students taking the Applications and Interpretation syllabi at higher level are also required to take STEP – Typical offers for both Computing and Mathematics and Computer Science may include STEP requirements
<b>Mathematics and Computer Science:</b> Total expected intake*: 46 Application:admissions ratio* = 14:1	<b>Mathematics and Computer Science:</b> Minimum entry: <b>A*A*A</b> Typical offer: <b>A*A*A</b> (students taking three A-levels) <b>A*A*AA</b> (students taking four A-levels)	<b>Mathematics and Computer Science:</b> <b>To include:</b> A* in Further Mathematics A* in Mathematics A in another useful subject (see right)	<b>Mathematics and Computer Science:</b> <b>Recommended subjects:</b> Computer science, Physics <b>Useful subjects:</b> (see list above)		<b>Mathematics and Computer Science:</b> Minimum entry: <b>40 points</b> Typical offer: <b>42 points</b>	<b>Mathematics and Computer Science:</b> <b>To include:</b> 7 in Mathematics <sup>††</sup> (HL) 7 in another subject at HL		<b>S English language requirement</b> – Admissions test required. See course page for details: <a href="http://www.imperial.ac.uk/study/ug/courses">www.imperial.ac.uk/study/ug/courses</a> – IB students taking the Applications and Interpretation syllabi at higher level are also required to take STEP – Typical offers for both Computing and Mathematics and computer science may include STEP requirements
<b>DESIGN ENGINEERING</b> (page 54) Total expected intake*: 90 Application:admissions ratio* = 6:1	Minimum entry: <b>A*AA</b> Typical offer: <b>A*AA to A*A*A</b>	<b>To include:</b> A* in Mathematics A, A in two other subjects			Minimum entry: <b>39 points</b> Typical offer: <b>39–40 points</b>	<b>To include:</b> 6 in Mathematics <sup>††</sup> (HL)		<b>S English language requirement</b>
<b>ELECTRICAL AND ELECTRONIC ENGINEERING</b> (page 56) Total expected intake*: 189 Application:admissions ratio* = 9:1	Minimum entry: <b>A*AA</b> Typical offer: <b>A*AA</b>	<b>To include:</b> A* in Mathematics A in Physics A in a recommended subject (see right)	<b>Recommended subjects:</b> Chemistry, Computer Science/ Computing, Design and Technology, Electronics, Further Mathematics (strongly encouraged)		Minimum entry: <b>38 points</b> Typical offer: <b>38–40 points</b>	<b>To include:</b> 6 in Mathematics <sup>††</sup> (HL) 6 in Physics (HL)		<b>H English language requirement</b>
<b>GEOLOGY, GEOPHYSICS AND PLANETARY SCIENCE</b> (page 58) Total expected intake*: 78 Application:admissions ratio* = 4:1	Minimum entry: <b>AAA</b> Typical offer: <b>AAA</b>	<b>Earth and Planetary Science:</b> <b>To include:</b> A in Mathematics A in Biology, Chemistry, Geography, Geology or Physics, A in a third subject <sup>#</sup> <b>Geology:</b> <b>To include:</b> A, A in Biology, Chemistry, Geography, Geology, Mathematics or Physics A in a third subject <sup>#</sup> <b>Geophysics:</b> <b>To include:</b> A in Mathematics A in Physics A in a third subject <sup>#</sup>			Minimum entry: <b>38 points</b> Typical offer: <b>38–39 points</b>	<b>Earth and Planetary Science:</b> <b>To include:</b> 6 in Mathematics <sup>††</sup> (HL) 6 in Biology, Chemistry, Geography, Geology or Physics (HL) 6 in another subject (HL) <b>Geology:</b> <b>To include:</b> 6, 6 (HL) in two of the following: Biology, Chemistry, Geography, Geology, Mathematics <sup>‡</sup> or Physics 6 in another subject (HL) <b>Geophysics:</b> <b>To include:</b> 6 in Mathematics <sup>††</sup> (HL) 6 in Physics (HL) 6 in another subject (HL)		<b>S English language requirement</b> – Grade 7 in GCSE Mathematics preferred for Geology students without A-level Mathematics

**Notes**

- † Required subjects: These subjects form part of our minimum standard of entry for students studying A-levels
- ‡ Recommended subjects: These subjects are not required for entry but if available at your school, we recommend you take them
- § Useful subjects: The skills and knowledge gained from studying these subjects may be useful but they are not required for entry
- || Typical offers are calculated on offers made to at least 80% of A-level and International Baccalaureate applicants for 2021 entry – see page 79
- ≠ Total expected intake and application: admission ratios are based on 2020 entry data
- # Third subject excludes General Studies or Critical Thinking

- †† Mathematics Analysis and Approaches or the Applications and Interpretation syllabi are accepted at higher level
- ## Mathematics Analysis and Approaches (preferred) or the Applications and Interpretation syllabi are accepted at higher level
- §§ If not already required, departments may introduce admission tests for 2022 entry. For the latest information on each department's test arrangements visit: [www.imperial.ac.uk/study/ug/courses](http://www.imperial.ac.uk/study/ug/courses)
- H Higher level College English language requirement applies – see page 79.
- S Standard level College English language requirement applies – see page 79.



	A-LEVEL			INTERNATIONAL BACCALAUREATE		ALL STUDENTS	
	Minimum entry requirement and typical offer <sup>†</sup>	Required subjects <sup>‡</sup> and additional requirements	Recommended <sup>‡</sup> and useful <sup>§</sup> subjects	Minimum entry requirement and typical offer <sup>†</sup>	Required subjects <sup>‡</sup> and additional requirements	Interview	Other requirements Information on admissions test requirement is subject to change up to September 2021 <sup>§§</sup>
<b>MATERIALS SCIENCE AND ENGINEERING</b> (page 60) Total expected intake*: 108 Application:admissions ratio* = 6.5:1	Minimum entry: <b>AAA</b> Typical offer: <b>AAA to A*AA</b>	<b>To include:</b> A in Mathematics A in Chemistry or Physics A in a useful subject (see right)	<b>Useful subjects:</b> Biology, Computing, Design and Technology, Economics, Electronics, English Language, English Literature, Further Maths, Geography, History, Languages, Philosophy, Politics, and Psychology	Minimum entry: <b>38 points</b> Typical offer: <b>39–41 points</b>	<b>To include:</b> 6 in Mathematics <sup>††</sup> (HL) 6 in Physics or Chemistry (HL)		<b>H English language requirement</b> – A-levels in foreign languages that are studied in your native language may not be considered towards the entry requirements – International students applying for certain courses in this department require an ATAS certificate before they can apply for a student visa, see page 80 for more information
<b>MATHEMATICS</b> (page 62) Total expected intake*: 221 Application:admissions ratio* = 12:1	Minimum entry: <b>A*A*A</b> Typical offer: <b>A*A*A to A*A*A*</b> (students taking three A-levels) <b>A*A*AA</b> (students taking four A-levels)	<b>To include:</b> A* in Mathematics A* in Further Mathematics A in a third subject <sup>#</sup>		Minimum entry: <b>39 points</b> Typical offer: <b>39–40 points</b>	<b>To include:</b> 7 in Mathematics <sup>††</sup> (HL) 6 in another subject at HL		<b>H English language requirement</b> – Admissions test (MAT) required for all pre-15 October applicants. See course page for details: <a href="http://www.imperial.ac.uk/study/ug/courses">www.imperial.ac.uk/study/ug/courses</a>
<b>MECHANICAL ENGINEERING</b> (page 64) Total expected intake*: 184 Application:admissions ratio* = 10.5:1	Minimum entry: <b>A*A*A to A*AAA</b> Typical offer: <b>A*A*A</b> (students taking three A-levels) <b>A*AAA to A*A*AA</b> (students taking four A-levels)	<b>To include:</b> A* in Mathematics A*/A in Physics A*/A in a third subject <sup>#</sup> A* is required in Physics if applying with three A-levels and A if applying with four relevant A-levels		Minimum entry: <b>40 points</b> Typical offer: <b>40 points</b>	<b>To include:</b> 6 in Mathematics <sup>††</sup> (HL) 6 in Physics (HL)		<b>S English language requirement</b> – Admissions test required. See course page for details: <a href="http://www.imperial.ac.uk/study/ug/courses">www.imperial.ac.uk/study/ug/courses</a> – Please note: for 2022 entry, typical offers may include A*A*A to A*A*A* for students taking three A-levels – International students applying for certain courses in this department require an ATAS certificate before they can apply for a student visa, see page 80 for more information
<b>MEDICAL BIOSCIENCES</b> (page 66) Total expected intake*: 150 Application:admissions ratio* = 7:1	Minimum entry: <b>AAA</b> Typical offer: <b>AAA</b>	<b>To include:</b> A in Biology or Human Biology A in Chemistry, Mathematics, Further Mathematics or Physics A in a third subject <sup>#</sup> If you are offering an A grade in Mathematics or Further Mathematics, the third A grade must be in a non-Mathematics subject.		Minimum entry: <b>38 points</b> Typical offer: <b>38 points</b>	<b>To include:</b> 6 in Biology (HL) 6 in Chemistry (HL), Mathematics <sup>††</sup> (HL) or Physics (HL)		<b>H English language requirement</b>
<b>MEDICINE</b> (page 68) Total expected intake*: 345 Application:admissions ratio* = 10:1	Minimum entry: <b>AAA</b> Typical offer: <b>A*AA</b>	<b>To include:</b> A in Chemistry A in Biology A in a third subject <sup>#</sup>		Minimum entry: <b>38 points</b> Typical offer: <b>39 points</b>	<b>To include:</b> 6 in Biology (HL) 6 in Chemistry (HL)		<b>H English language requirement</b> – Admissions test (BMAT) required for all applicants. See course page for details: <a href="http://www.imperial.ac.uk/study/ug/courses">www.imperial.ac.uk/study/ug/courses</a>
<b>PHYSICS</b> (page 70) Total expected intake*: 246 Application:admissions ratio* = 7:1	Minimum entry: <b>A*A*A</b> Typical offer: <b>A*A*A</b>	<b>To include:</b> A* in Mathematics A*/A in Physics A*/A in a third subject <sup>#</sup>	<b>Recommended subject:</b> Further Mathematics  <b>Useful subject:</b> Chemistry	Minimum entry: <b>40 points</b> Typical offer: <b>40–41 points</b>	<b>To include:</b> 7, 6, 6 at higher level which must include Mathematics <sup>††</sup> and Physics (grades any order)		<b>H English language requirement</b> – Admissions test required. See course page for details: <a href="http://www.imperial.ac.uk/study/ug/courses">www.imperial.ac.uk/study/ug/courses</a> – International students applying for certain courses in this department require an ATAS certificate before they can apply for a student visa, see page 80 for more information

## Notes

- † Required subjects: These subjects form part of our minimum standard of entry for students studying A-levels
- ‡ Recommended subjects: These subjects are not required for entry but if available at your school, we recommend you take them
- § Useful subjects: The skills and knowledge gained from studying these subjects may be useful but they are not required for entry
- || Typical offers are calculated on offers made to at least 80% of A-level and International Baccalaureate applicants for 2021 entry – see page 79
- ≠ Total expected intake and application: admission ratios are based on 2020 entry data
- # Third subject excludes General Studies or Critical Thinking

- †† Mathematics Analysis and Approaches or the Applications and Interpretation syllabi are accepted at higher level
- ## Mathematics Analysis and Approaches (preferred) or the Applications and Interpretation syllabi are accepted at higher level
- §§ If not already required, departments may introduce admission tests for 2022 entry. For the latest information on each department's test arrangements visit:  
[www.imperial.ac.uk/study/ug/courses](http://www.imperial.ac.uk/study/ug/courses)
- H Higher level College English language requirement applies – see page 79.
- S Standard level College English language requirement applies – see page 79.



## HOW TO APPLY

Wherever you are in the world, we'd love you to apply to Imperial.  
Just make sure you submit your application through UCAS at [www.ucas.com](http://www.ucas.com)

**EARLY SEPTEMBER 2021**  
**UCAS's application process opens.**  
Learn more about the process in advance so you're ready to apply when applications open.  
[www.ucas.com/how-it-all-works](http://www.ucas.com/how-it-all-works)



**15 OCTOBER 2021 – 18.00 UK TIME**  
**UCAS application deadline for our Medicine (MBBS/BSc) course.**  
If you're applying to study Medicine at Imperial, you also need to sit the BioMedical Admissions Test (BMAT) in the year you apply.



**NOVEMBER 2021 – FEBRUARY 2022**  
**Interviews**  
This is when most of our departments will interview applicants, either in person or online, who show potential in their application.



**15 JANUARY 2022 – 18.00 UK TIME**  
**UCAS deadline**  
The deadline for all our other courses. If you're a Home student, don't forget to check if you're eligible for any funding from the UK government (see page 82).



**31 MARCH 2022**  
**Decisions**  
We aim to make all application decisions by this date. Use UCAS Track to check whether you've received an offer you need to reply to.

### YOUR UCAS CHOICES

You can choose up to five courses in one cycle. Use your choices wisely – for example, many of our departments will only make you one offer, even if you apply to more than one of their courses. So if you can't decide between courses in the same department, we recommend contacting them for advice rather than wasting one of your choices. This doesn't affect you if you're applying for a number of courses in different departments.



### ENSURING ABILITY SHINES THROUGH

We've updated our application process to make sure we fairly measure the ability and potential of Home students from all areas and backgrounds – particularly those where relatively few people have gone to university before. For the full list of eligibility criteria and admissions support offered by the department you're interested in, please see our website: [www.imperial.ac.uk/selection/admissions-schemes](http://www.imperial.ac.uk/selection/admissions-schemes)

## OUR SELECTION PROCESS

### MINIMUM ENTRY REQUIREMENT AND TYPICAL OFFERS

You can find the minimum grades you need for each department in our entry requirements on pages 72–77. As a guide, on these pages we've also included the typical offer that each department made to at least 80% of A-level and International Baccalaureate applicants for 2020 entry (we also accept a wide range of international qualifications). A typical offer is usually higher than the department's minimum entry requirement, particularly in our most competitive departments.

### ADMISSIONS TESTS

We don't have a College-wide entry test, but some of our departments use external tests as part of their admissions process, like BMAT for Medicine. Where this applies, it'll be up to you to register for the test yourself – so make a note of the relevant registration deadlines and term dates.

Please be aware that information around our current admissions tests is subject to change up to September 2021.

### INTERVIEWS

Most of our departments will interview applicants who show potential in their application. Depending on the department, this could be a panel interview, a presentation or part of a recruitment day. If you're shortlisted, we'll send you more information in advance so you know what to expect.

### PRACTICAL SCIENCE ASSESSMENT (A-LEVEL STUDENTS)

The Science Practical grade was introduced for A-levels in Biology, Chemistry and Physics in England only in 2017. Where this assessment applies, we expect you to pass the practical assessment for all subjects that form part of your offer.

### ENGLISH LANGUAGE REQUIREMENTS

Wherever you're from – even if you're a native English speaker – you'll need to show that you meet our English language requirements for entry.

We have two levels of achievement – Standard and Higher. Check the entry requirements for the course you're applying for to see which one you need to meet. We accept a wide range of English language qualifications, including those shown below, but visit our website for the full range. We also accept three proficiency tests: IELTS (Academic), Pearson Academic (PTE) and TOEFL (iBT). Scores are valid for two years from the date of the test.

[www.imperial.ac.uk/study/ug/apply/requirements/english](http://www.imperial.ac.uk/study/ug/apply/requirements/english)

	STANDARD	HIGHER
GCSE or O-level	Grade B/6 in English Language	
AS-level/ A-level (if taken)	Grade C in English Language	
International Baccalaureate	Varies depending on syllabus	
IELTS (Academic)	6.5 overall (minimum 6.0 in all elements)	7.0 overall (minimum 6.5 in all elements)
Pearson Academic (PTE)	62 overall (minimum 56 in all elements)	69 overall (minimum 62 in all elements)
TOEFL (iBT)	92 overall (minimum 20 in all elements)	100 overall (minimum 22 in all elements)

### ACADEMIC ENGLISH SUPPORT

All Imperial students can access free academic language support from our Centre for Academic English. This includes courses, workshops and online resources that develop your written and spoken communication. International students with an unconditional offer, whose first language is not English, can take the Centre's three-week pre-session course to develop their academic language and literacy before starting their course.



## INTERNATIONAL STUDENTS

### STUDENT VISAS

If you are from outside the UK or Republic of Ireland, you may need a Student Route visa to study in the UK.

### EEA/SWISS NATIONALS STUDENT VISAS

You will not require a visa to study if you hold settled or pre-settled status in the UK. If you do not have settled or pre-settled status, and you are coming to study a course that is longer than six months, you will need to apply for a Student Route visa to study in the UK.

### CONFIRMATION OF ACCEPTANCE OF STUDIES

If you need a Student Route visa to study in the UK, you'll need a reference number called a Confirmation of Acceptance for Studies (CAS) to enter on your visa application. We'll send you a CAS after you meet all the conditions of your offer.

[www.imperial.ac.uk/study/ug/apply/after-you-apply/cas](http://www.imperial.ac.uk/study/ug/apply/after-you-apply/cas)

### ATAS CERTIFICATE

You may need to apply for an Academic Technology Approval Scheme (ATAS) certificate from the UK government before you can study certain Imperial courses. If this applies to you, we'll state it as a condition in your offer. You can apply for a certificate up to nine months before your course starts.

[www.gov.uk/academic-technology-approval-scheme](http://www.gov.uk/academic-technology-approval-scheme)

### ANY QUESTIONS?

Our dedicated International Student Support team is ready and waiting to give you specialist advice on applying for a visa, even before you arrive in the UK. They're also an excellent point of contact for any questions you may have about moving to and settling in the UK, with support that continues throughout your time at Imperial.

[www.imperial.ac.uk/study/visas](http://www.imperial.ac.uk/study/visas)



The Queen's Lawn is the ideal place to relax between lectures and classes.

## WHAT COSTS ARE INVOLVED?

### STUDY COSTS

Most of our undergraduate courses last four years and we charge tuition fees for each year of study. You'll pay one of two tuition fee rates depending on your fee status: Home or Overseas.

#### HOME RATE OF TUITION

As a guide, the Home rate of tuition for all our undergraduate courses in 2021–22 was **£9,250 per year.**

This may change in 2022 in line with government regulations. Once it's confirmed, we'll publish it on our online course pages.

[www.imperial.ac.uk/study/ug/courses](http://www.imperial.ac.uk/study/ug/courses)

#### OVERSEAS RATE OF TUITION

The Overseas rate of tuition applies to all students who don't qualify for Home student fee status in the government's fee regulations. All UK universities will use these regulations to assess which rate of tuition you should pay if you're offered a place and you accept it.

We have not yet set our fees for 2022 entry, though as a guide, in 2021–22 these ranged from **£30,000–£44,000 per year.** Once the new fees are confirmed, we will publish them on our online course pages.

If you're from the EU, EEA or Switzerland you will no longer be automatically eligible for the Home rate of tuition and will be charged the Overseas rate. However, you may still meet the requirements for Home student fee status so it's worth exploring the eligibility criteria further.

[www.imperial.ac.uk/study/ug/fees-and-funding/tuition-fees/fee-status](http://www.imperial.ac.uk/study/ug/fees-and-funding/tuition-fees/fee-status)

### EXTRA COURSE COSTS

Some of our courses also have extra costs for things like field trips, books and protective clothing for lab work. Where these apply, we provide information on the course pages of our website, alongside the tuition fee information:

[www.imperial.ac.uk/study/ug/courses](http://www.imperial.ac.uk/study/ug/courses)

### LIVING COSTS

London can be more expensive than other UK cities. But by creating a budget, and learning how to stick to it, it's still possible to make the most of all that the capital has to offer.

Rent, food, travel and the cost of living (e.g. joining a gym or going out with friends) are the main expenses you'll need to budget for as a university student. Our rough guide (below) gives you an idea of how much you should expect to spend in an academic year at Imperial, on top of your tuition fees or additional course costs.

#### Approximate living costs

	Weekly	39 weeks
College accommodation** <b>or</b> private accommodation‡	£181.78†	£7,089.58
Food‡	£62.52	£2,438.28
Travel	£29.60	£1,023.30‡
Personal and leisure‡	£46.67	£1,820.13
<b>Total</b>	<b>£320.57</b> or <b>£325.51</b>	<b>£12,371.29</b> or <b>£12,563.79</b>

\*\* Based on rents for 2021–2022. Once confirmed, costs for 2022–2023 will be displayed at: [www.imperial.ac.uk/accommodation](http://www.imperial.ac.uk/accommodation)

† This £181.78 average cost includes a £2 weekly contribution to the Hall's Activities Fund. 69% of rooms in College accommodation cost less than the weekly average. The median cost of accommodation per person is £164.00.

‡ Figures taken from a Student Experience Survey 2020 of Imperial students. Actual costs will vary depending on your lifestyle, for example, how often you eat at restaurants and your leisure activities, and may be lower.

‡ Based on buying a monthly Travelcard for Zones 1–3 with a 18+ Student Oyster photocard for nine months (2020 prices) from: [tfl.gov.uk](http://tfl.gov.uk).





## FUNDING YOUR STUDIES

If you're worried about the cost of studying at university, it's worth finding out what financial support is available towards your living costs and tuition. If you're a Home student this includes government funding, scholarships and the Imperial Bursary.

### TUITION FEE LOANS

If you're a Home student, you don't have to pay any tuition costs upfront as you can apply for a **Tuition Fee Loan** from the UK government. This covers the full cost of tuition for every year of your course and you'll be eligible for the full loan, regardless of your household income (we call this non-means-tested). If the fee increases, so does the loan, and it's paid directly to us by the Student Loans Company.

[www.imperial.ac.uk/study/ug/fees-and-funding/tuition-fees](http://www.imperial.ac.uk/study/ug/fees-and-funding/tuition-fees)

### EXTRA HELP

You could get extra support in certain special circumstances, for example if you have children, adult dependants or a disability and meet the eligibility criteria.

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



You will graduate in the magnificent setting of the Royal Albert Hall, one of the world's finest concert halls.

### THE IMPERIAL BURSARY

The Imperial Bursary is one of the most generous schemes of its kind of all UK universities.

It's designed to help Home students with the cost of studying in London by providing **up to £5,000** for every year of their course.

You don't have to pay this money back and it's paid on top of any government funding you receive.

If your annual household income is **below £60,000**, you automatically qualify for the Imperial Bursary for every year of your course – as long as your household income remains below this level.

[www.imperial.ac.uk/fees-and-funding/imperial-bursary](http://www.imperial.ac.uk/fees-and-funding/imperial-bursary)

### Imperial Bursary 2021–2022

Annual household income	Bursary (per year)
£0–£16,000	<b>£5,000</b>
£16,001–£50,000	<b>£4,000</b>
£50,001–£55,000	<b>£3,000</b>
£55,001–£60,000	<b>£2,000</b>

Please note: Exclusions apply to repeat years of study and NHS-funded years for medical courses.

### MAINTENANCE LOANS

All Home students can get help towards their living costs from the UK government. How much you can get will depend on how much your family earns and whether you're living at home or away. Different maintenance funding arrangements apply for students living in England, Scotland, Wales and Northern Ireland so check the details with your regional funding body e.g. Student Finance England for students from England.

[www.imperial.ac.uk/study/ug/fees-and-funding/loans-and-grants](http://www.imperial.ac.uk/study/ug/fees-and-funding/loans-and-grants)

### SCHOLARSHIPS

We offer a range of scholarships for both Home and International students, which you don't need to pay back. What and how much is available will vary by department. Have a look on our scholarships search tool for more information:

[www.imperial.ac.uk/fees-and-funding/scholarships-search](http://www.imperial.ac.uk/fees-and-funding/scholarships-search)

### MUSIC AND SPORTS SCHOLARSHIPS

If you're an exceptional athlete or musician, you may be eligible for additional support.

[www.imperial.ac.uk/study/ug/fees-and-funding/bursaries-and-scholarships](http://www.imperial.ac.uk/study/ug/fees-and-funding/bursaries-and-scholarships)



Dalby Court is a central point of our South Kensington Campus and has lots of outdoor seating – perfect for studying or eating.



## APPLYING FOR ACCOMMODATION

**You're guaranteed a place in College accommodation if you're a first-year undergraduate who picks Imperial as their first choice and you're coming alone – as long as you apply by late July 2022\*.**

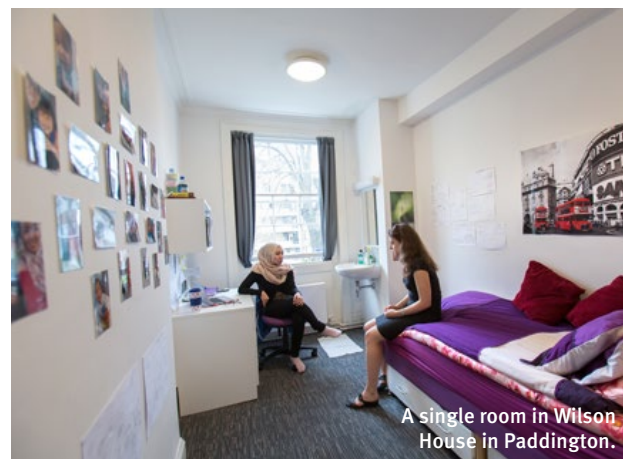
To compare features of the different halls and types of room, see current prices, take 360 virtual tours and find out more about how to apply, visit:

[www.imperial.ac.uk/accommodation](http://www.imperial.ac.uk/accommodation)

\*The application deadline and schedule for 2022 is yet to be confirmed. See our website, above, for the latest information.



Woodward Buildings in North Acton.



A single room in Wilson House in Paddington.

### MAY 2022

Our application process opens for students who have made Imperial their first choice. You can select five accommodation preferences, specifying your preferred hall, room type and price.



### LATE JULY 2022

You must apply by a certain date in July to be guaranteed a place in our accommodation. Exact date to be confirmed on our website.



### EARLY AUGUST 2022

The application process starts for students who have made Imperial their insurance choice. We try to house as many students as possible, but can't guarantee places for everyone with an insurance offer.



### EARLY SEPTEMBER 2022

We start allocating rooms based on the preferences you put on your application. Around 90–95% of our students are assigned a room matching their preferences, while 100% of students are assigned a room within their stated budget.



### SEPTEMBER 2022

We'll email you to tell you which hall you've been assigned to.



### SATURDAY 1 OCTOBER 2022

Moving in day! Current students will be on hand to help you unpack and settle into your new home.



### 38–40 WEEK CONTRACTS

There's no need to move out during the Christmas and Easter holidays – some halls also include the option to extend your stay over the summer vacation.



### SAFE AND SECURE

All of our halls have CCTV and swipe card or fob entry systems. There are also 24-hour staffed security offices on campus and mobile patrols for off-campus halls.



### BEYOND THE FIRST YEAR

We provide year-round help and advice on finding privately rented accommodation. This includes annual private housing events and a dedicated property search website.



### ALL-INCLUSIVE RENT

Rent includes all bills (gas, electricity, internet and insurance). You pay rent once each term, so it's easy to keep track of what you need to pay and when.



An en-suite bedroom at Eastside Halls of Residence.



## SUPPORT WHEN YOU NEED IT

There are so many amazing ways to fill each day at Imperial that taking care of yourself can sometimes slip down the priority list. But it shouldn't. It's important to make time for the things that keep you healthy and happy. And we've got some brilliant resources, as well as our College-wide network of support services to help you out.

### ACADEMIC SUPPORT

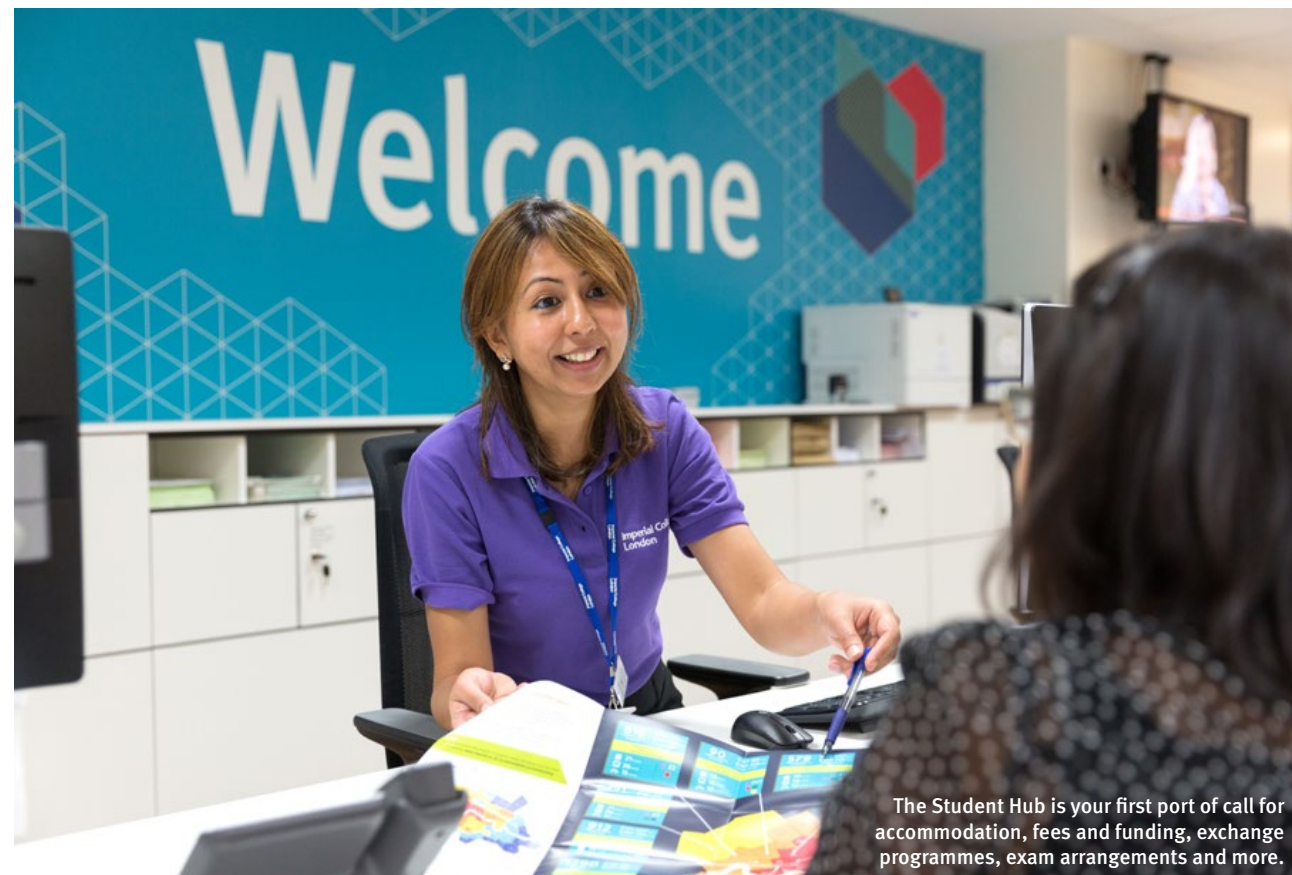
Throughout your time at Imperial, you'll have a dedicated personal tutor. They're here to provide academic advice and feedback, as well as helping you access any College support you may need. We also provide a wide variety of resources to support your academic success, including an online Success Guide which covers a range of study advice, lunchtime library workshops and specialist subject librarians who can help you find the resources you need.

### SUPPORT IN YOUR DEPARTMENT

Your department is home to a network of experienced staff members and student representatives – including Senior Tutors, Student Wellbeing Advisors, Liaison Officers and Department Disability Officers. They work together to provide support and advice on any personal or academic matters you may have. As well as this, Imperial College Union's Mums and Dads scheme pairs you with a returning student in your department who can offer general advice about studying at Imperial.

### SUPPORT IN YOUR HALL

Our Residential Support team is on call 24/7 to look after your wellbeing. They also organise lots of social activities to help you settle into your new home.



The Student Hub is your first port of call for accommodation, fees and funding, exchange programmes, exam arrangements and more.

### HEALTH AND WELLBEING

We have a number of on-site health and wellbeing services, including an NHS Health Centre, Dental Surgery, the state-of-the-art Ethos Sports Centre and a Counselling and Mental Health Advice Service. Imperial College Union's independent and confidential Advice Centre offers help on a wide range of issues. The Union also co-ordinates a network of Student Wellbeing Representatives, whose role is to promote and support student health and wellbeing within their departments.

### FAITH AND SPIRITUALITY

Our Multi-Faith Centre supports students from different faiths and philosophical backgrounds, including those of no faith. It provides access to chaplains from different religions, multi-faith prayer rooms, events, meditation and mindfulness sessions, and information on local places of worship.

### SPECIALIST SUPPORT

If you have a disability, specific learning difficulty or an enduring physical or mental health condition, the Disability Advisory Service can provide you with specialist support throughout your time here. Be sure to contact the service before you start your course to discuss the support that you might need. Care leavers can also access a range of specialist support, starting from the admissions stage.

### CARE LEAVERS

We provide a range of support for students who have spent time in local authority care, including foster care or living in a residential care home. This includes dedicated pastoral, academic and financial support, as well as advice on accessing UK government funding for care leavers. Eligible care leavers are also guaranteed a place in College halls of residence for all years of study and have the option to stay in halls over the summer vacation.

### INTERNATIONAL STUDENTS

Our dedicated International Student Support team are an excellent point of contact for any questions you may have about moving to and settling in the UK, with support that continues throughout your time at Imperial. They provide specialist advice on a range of topics, including student visas and opening a UK bank account, and organise a year-round programme of international social activities.

Read more about our College-wide network of support: [www.imperial.ac.uk/student-support-zone](http://www.imperial.ac.uk/student-support-zone)



**“You may not feel that you have a disability. But ‘disability’ doesn’t have to be something physical. It can be something that just makes certain day-to-day activities a bit more difficult. And that’s where we can help.**

**We have experienced and friendly advisors who are really good at helping you figure out exactly where you’re having difficulties and we can suggest solutions that will help. This could mean making adjustments to give you extra time during exams or using software that can help you with reading or taking notes – whatever you need and whatever you’re comfortable with. The support you receive is tailored to you and your needs.**

**If you think you might need extra help, just get in touch and we’ll go from there.”**

JOHN, DISABILITY ADVISORY SERVICE ADMINISTRATOR



Length (Years)	Qualification and title	Department	Page
4	MEng Aeronautical Engineering	Aeronautics	38
4	MEng Aeronautical Engineering with a Year Abroad <sup>1</sup>	Aeronautics	38
5	MEng Aeronautical Engineering with a Year Abroad <sup>1</sup>	Aeronautics	38
5	MEng Aeronautical Engineering with a Year in Industry <sup>1</sup>	Aeronautics	38
4	MEng Aeronautics with Spacecraft Engineering <sup>1</sup>	Aeronautics	38
3	BSc Biochemistry	Life Sciences	40
4	BSc Biochemistry with a Year in Industry/Research <sup>2</sup>	Life Sciences	40
4	BSc Biochemistry with French for Science	Life Sciences	40
4	BSc Biochemistry with German for Science	Life Sciences	40
3	BSc Biochemistry with Management <sup>2</sup>	Life Sciences	40
4	BSc Biochemistry with Management <sup>2</sup>	Life Sciences	40
4	BSc Biochemistry with Research Abroad <sup>2</sup>	Life Sciences	40
4	BSc Biochemistry with Spanish for Science	Life Sciences	40
3	BSc Biological Sciences	Life Sciences	44
4	BSc Biological Sciences with a Year in Industry/Research <sup>3</sup>	Life Sciences	44
4	BSc Biological Sciences with French for Science	Life Sciences	44
4	BSc Biological Sciences with German for Science	Life Sciences	44
3	BSc Biological Sciences with Management <sup>3</sup>	Life Sciences	44
4	BSc Biological Sciences with Management <sup>3</sup>	Life Sciences	44
4	BSc Biological Sciences with Research Abroad <sup>3</sup>	Life Sciences	44
4	BSc Biological Sciences with Spanish for Science	Life Sciences	44
4	MEng Biomaterials and Tissue Engineering	Materials	60
4	MEng Biomedical Engineering	Bioengineering	42
4	MEng Biomedical Engineering with a Year Abroad <sup>4</sup>	Bioengineering	42
5	MEng Biomedical Engineering with a Year in Industry <sup>4</sup>	Bioengineering	42
3	BSc Biotechnology	Life Sciences	40
4	BSc Biotechnology with a Year in Industry/Research <sup>5</sup>	Life Sciences	40
4	BSc Biotechnology with French for Science	Life Sciences	40
4	BSc Biotechnology with German for Science	Life Sciences	40
4	BSc Biotechnology with Management <sup>5</sup>	Life Sciences	40
4	BSc Biotechnology with Research Abroad <sup>5</sup>	Life Sciences	40
4	BSc Biotechnology with Spanish for Science	Life Sciences	40
4	MEng Chemical Engineering	Chemical Engineering	46
4	MEng Chemical Engineering with a Year Abroad <sup>6</sup>	Chemical Engineering	46
4	MEng Chemical with Nuclear Engineering <sup>6</sup>	Chemical Engineering	46
3	BSc Chemistry	Chemistry	48
4	MSci Chemistry	Chemistry	48
5	MSci Chemistry with a Year in Industry	Chemistry	48
4	MSci Chemistry with French for Science	Chemistry	48
4	MSci Chemistry with German for Science	Chemistry	48
4	BSc Chemistry with Management	Chemistry	48
5	BSc Chemistry with Management and a Year in Industry	Chemistry	48
4	MSci Chemistry with Medicinal Chemistry	Chemistry	48
5	MSci Chemistry with Medicinal Chemistry and a Year in Industry	Chemistry	48
4	MSci Chemistry with Molecular Physics	Chemistry	48
5	MSci Chemistry with Molecular Physics and a Year in Industry	Chemistry	48
4	MSci Chemistry with Research Abroad	Chemistry	48
5	MSci Chemistry with Research Abroad and a Year in Industry	Chemistry	48
4	MSci Chemistry with Spanish for Science	Chemistry	48
4	MEng Civil Engineering	Civil and Environmental Engineering	50
4	MEng Civil Engineering with a Year Abroad	Civil and Environmental Engineering	50
3	BEng Computing	Computing	52
4	MEng Computing	Computing	52
4	MEng Computing (Artificial Intelligence and Machine Learning)	Computing	52
4	MEng Computing (International Programme of Study)	Computing	52
4	MEng Computing (Management and Finance)	Computing	52
4	MEng Computing (Security and Reliability)	Computing	52
4	MEng Computing (Software Engineering)	Computing	52
4	MEng Computing (Visual Computing and Robotics)	Computing	52

Length (Years)	Qualification and title	Department	Page
4	MEng Design Engineering	Dyson School of Design Engineering	54
3	BSc Earth and Planetary Science	Earth Science and Engineering	58
4	MSci Earth and Planetary Science	Earth Science and Engineering	58
4	MSci Earth and Planetary Science with a Year Abroad	Earth Science and Engineering	58
3	BSc Ecology and Environmental Biology	Life Sciences	44
3	BEng Electrical and Electronic Engineering	Electrical and Electronic Engineering	56
4	MEng Electrical and Electronic Engineering	Electrical and Electronic Engineering	56
4	MEng Electrical and Electronic Engineering with a Year Abroad <sup>7</sup>	Electrical and Electronic Engineering	56
4	MEng Electrical and Electronic Engineering with Management	Electrical and Electronic Engineering	56
3	BEng Electronic and Information Engineering	Electrical and Electronic Engineering	56
4	MEng Electronic and Information Engineering	Electrical and Electronic Engineering	56
4	MEng Electronic and Information Engineering with a Year Abroad <sup>8</sup>	Electrical and Electronic Engineering	56
3	BSc Geology	Earth Science and Engineering	58
4	MSci Geology	Earth Science and Engineering	58
4	MSci Geology with a Year Abroad	Earth Science and Engineering	58
3	BSc Geophysics	Earth Science and Engineering	58
4	MSci Geophysics	Earth Science and Engineering	58
4	MSci Geophysics with a Year Abroad	Earth Science and Engineering	58
3	BEng Materials Science and Engineering	Materials	60
4	MEng Materials Science and Engineering	Materials	60
3	BEng Materials with Management	Materials	60
4	MEng Materials with Nuclear Engineering	Materials	60
3	BSc Mathematics	Mathematics	62
4	MSci Mathematics	Mathematics	62
3	BEng Mathematics and Computer Science	Computing/Mathematics	52
4	MEng Mathematics and Computer Science	Computing/Mathematics	52
3	BSc Mathematics (Pure Mathematics)	Mathematics	62
3	BSc Mathematics with Applied Mathematics/Mathematical Physics	Mathematics	62
4	MSci Mathematics with a Year Abroad	Mathematics	62
3	BSc Mathematics with Mathematical Computation	Mathematics	62
3	BSc Mathematics with Statistics	Mathematics	62
3	BSc Mathematics with Statistics for Finance	Mathematics	62
4	MEng Mechanical Engineering	Mechanical Engineering	64
4	MEng Mechanical Engineering with a Year Abroad <sup>9</sup>	Mechanical Engineering	64
5	MEng Mechanical Engineering with a Year in Industry <sup>9</sup>	Mechanical Engineering	64
5	MEng Mechanical Engineering with a Year in Industry and a Year Abroad <sup>9</sup>	Mechanical Engineering	64
4	MEng Mechanical with Nuclear Engineering <sup>9</sup>	Mechanical Engineering	64
5	MEng Mechanical Engineering with Nuclear Engineering and a Year in Industry <sup>9</sup>	Mechanical Engineering	64
3	BSc Medical Biosciences	Medicine	46
4	BSc Medical Biosciences with Management	Medicine	46
6	MBBS/BSc Medicine	Medicine	68
8/9	MBBS/PhD Medicine (Intercalated PhD option for Medical students) <sup>10</sup>	Medicine	68
5	MBBS Medicine (Lee Kong Chian School of Medicine, Singapore) <sup>11</sup>	Medicine	68
3	BSc Microbiology	Life Sciences	44
4	MEng Molecular Bioengineering	Bioengineering	42
4	MEng Molecular Bioengineering with a Year Abroad <sup>12</sup>	Bioengineering	42
5	MEng Molecular Bioengineering with a Year in Industry <sup>12</sup>	Bioengineering	42
3	BSc Physics	Physics	70
4	MSci Physics	Physics	70
4	MSci Physics with a Year Abroad	Physics	70
3	BSc Physics with Theoretical Physics	Physics	70
4	MSci Physics with Theoretical Physics	Physics	70

### NOTES

- 1 Apply initially for MEng Aeronautical Engineering (H401)
- 2 Apply initially for BSc Biochemistry (C700)
- 3 Apply initially for BSc Biological Sciences (C100)
- 4 Apply initially for MEng Biomedical Engineering (BH9C)
- 5 Apply initially for BSc Biotechnology (J700)
- 6 Apply initially for MEng Chemical Engineering (H801)
- 7 Apply initially for MEng Electrical and Electronic Engineering (H604)
- 8 Apply initially for MEng Electronic and Information Engineering (GH56)
- 9 Apply initially for MEng Mechanical Engineering (H301)
- 10 Apply initially for the MBBS/BSc (A100)
- 11 Awarded jointly by Imperial College London and Nanyang Technological University
- 12 Apply initially for MEng Molecular Bioengineering (H160)



# CAMPUS AND ACCOMMODATION MAP

Our South Kensington Campus is home to the majority of our undergraduate teaching.

We also have a number of specialist medical campuses, where our medical students undertake their clinical placements. These are based around some of London's leading hospitals.

Our new White City Campus in West London has state-of-the-art facilities, including the Advanced Hackspace and Incubator, that are designed for collaboration with businesses and local community partners.



**TERM DATES 2022–2023**

**Autumn term:**  
1 October 2022 – 16 December 2022

**Spring term:**  
7 January 2023 – 24 March 2023

**Summer term:**  
29 April 2023 – 30 June 2023

These dates are provisional and may be amended. Some courses, for example those with a year abroad or with a year in industry, have different term dates.



## TERMS AND CONDITIONS

This prospectus was published in March 2021, in advance of courses starting in 2022. It is considered to be up to date at the time of publication but should be read in conjunction with information published on our Study website. The following details may change after the publication of this prospectus:

### COVID-19

This prospectus presents information about undergraduate study at Imperial for 2022–2023, as it would operate under normal circumstances. However, in light of the COVID-19 pandemic, we may need to make changes to help ensure we can continue to keep our students and staff safe while still delivering the best possible academic and student experience. Details of any COVID-19 related changes we may need to make are available on our website, which we will continue to update:

[www.imperial.ac.uk/study/covid-19](http://www.imperial.ac.uk/study/covid-19)

In addition to changes related to COVID-19, the College may make changes to, or in relation to, courses including suspension or discontinuation of courses where the College considers this is necessary (examples may include: due to staff availability, new research, feedback from students, examiners or professional or regulatory bodies, or due to circumstances beyond the control of the College). If we need to make changes to courses after you have been made an offer or once you have started studying at the College, these will be handled in accordance with our published approach which is set out in the Study section of our website:

[www.imperial.ac.uk/study/ug/apply/our-degrees/potential-course-changes](http://www.imperial.ac.uk/study/ug/apply/our-degrees/potential-course-changes)

### OTHER CHANGES THE COLLEGE MAY MAKE INCLUDE:

- Optional modules may not all run every year due to staffing, timetabling or lack of student demand.
- Year Abroad places at partner institutions in Europe and the rest of the world are subject to change. Limited places also means competition is strong and selection cannot be guaranteed.
- Fees for Home students are regulated by the UK government, and may increase or decrease in line with any changes to the fee caps set by the government.

- EU, EEA and Swiss students are classed as Overseas students and pay the Overseas rate of tuition, and are therefore no longer eligible for the Tuition Fee Loan. However, exemptions apply which may mean you could still be classed as a Home student. Check your fee status on our website:

[www.imperial.ac.uk/study/ug/fees-and-funding/tuition-fees/fee-status](http://www.imperial.ac.uk/study/ug/fees-and-funding/tuition-fees/fee-status)

- Fees for Overseas students, as well as those for students from the Channel Islands and the Isle of Man, are set annually in the summer before a course commences and may increase each academic year, normally by an amount linked to inflation.
- The College may amend the bursaries offered each year, for reasons such as (among other things) to ensure that funding is effectively meeting the needs of students. In addition, the timing and number of payments may change in response to student feedback.

### TERMS AND CONDITIONS AND REGULATIONS

Our courses are provided on the basis of our terms and conditions. All Imperial students are required to comply with their obligations under the terms and conditions and the regulations of the College:

[www.imperial.ac.uk/students/terms-and-conditions](http://www.imperial.ac.uk/students/terms-and-conditions)

### STUDY WEBSITE

For the most up-to-date course information, please visit our Study website:

[www.imperial.ac.uk/study/ug/courses](http://www.imperial.ac.uk/study/ug/courses)

### ENTRY REQUIREMENTS

The entry requirements listed in this prospectus are based on offers made to at least 80% of A-level and International Baccalaureate applicants for 2020 entry. Achievement of the entry requirements and typical offer does not guarantee entry to the College.

Designed, edited and produced by Student Recruitment and Outreach and Communications and Public Affairs, Imperial College London, 2021. We'd love to hear what you think about our prospectus – get in touch: [prospectus@imperial.ac.uk](mailto:prospectus@imperial.ac.uk)

### THANK YOU

**Principal photography:** Jason Alden and Thomas Angus. Arranged and directed by Imperial College London. Thanks also to all the students featured throughout the prospectus for sharing their stories and their photos.

## GET TO KNOW US BEFORE YOU APPLY



### VIRTUAL TOUR: IMPERIAL360

Explore our South Kensington Campus, facilities and halls of residence via our virtual tour website.

[360-visit.imperial.ac.uk](http://360-visit.imperial.ac.uk)



### CHAT TO OUR STUDENTS

Chat with current Imperial students and get answers to your questions about applying to Imperial.

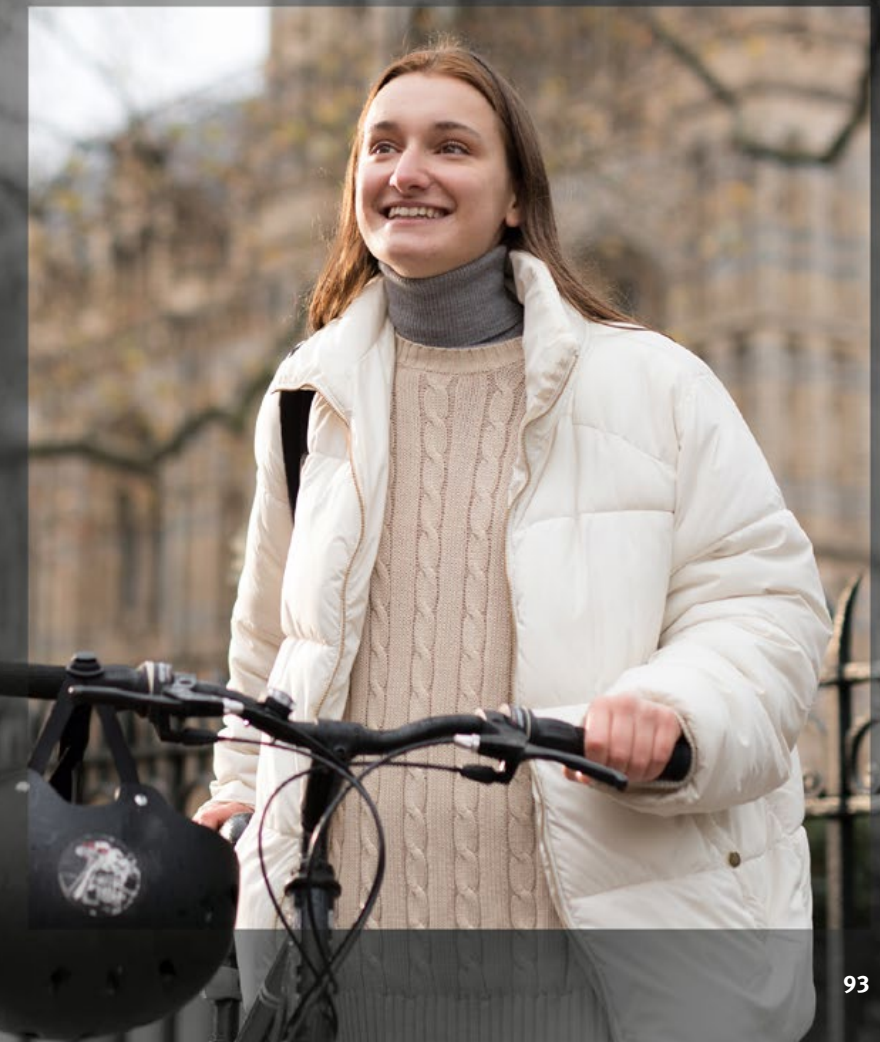
[www.imperial.ac.uk/study/chat-to-our-students](http://www.imperial.ac.uk/study/chat-to-our-students)



### FREQUENTLY ASKED QUESTIONS

Find answers to some of the most frequently asked questions about our application process and more.

[www.imperial.ac.uk/study/ug/apply/contact/faq](http://www.imperial.ac.uk/study/ug/apply/contact/faq)





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**Imperial College London  
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London SW7 2AZ**

Imperial College London UCAS institution code: **I50**