This booklet is here to provide you with information you need to prepare for your arrival, settle in and make the most out of your Department. It is laid out in chronological order so that you can “work through” it from online registration to finding your way around the campus. The College also has an online repository at http://www.imperial.ac.uk/students/new-students/ containing information about accommodation, finances, visas and more.

This Welcome Booklet was first compiled by student June Gan at the end of the second year of her degree with help and advice from many of our undergraduate students who answered her questions and completed surveys; it has been updated over the summer of 2018.

Please use the following email address for all enquiries i.e. timetable, programme transfers, general queries: chemugadmin@imperial.ac.uk

If in doubt ask……we are here to help but can only do so if you let us know what you need help with!

Please always use your College email address when contacting College staff.

Important contacts (dial last 5 digits from College extensions including Halls of Residence):

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Email</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amelia Barron</td>
<td>Student Experience Officer</td>
<td><a href="mailto:amelia.barron@imperial.ac.uk">amelia.barron@imperial.ac.uk</a></td>
<td>020 759 41043</td>
</tr>
<tr>
<td>Mike Bearpark</td>
<td>Disabilities Liaison Officer</td>
<td><a href="mailto:m.bearpark@imperial.ac.uk">m.bearpark@imperial.ac.uk</a></td>
<td>020 759 45727</td>
</tr>
<tr>
<td>Don Craig</td>
<td>Acting Director of UG Studies</td>
<td><a href="mailto:d.craig@imperial.ac.uk">d.craig@imperial.ac.uk</a></td>
<td>020 759 45771/41884</td>
</tr>
<tr>
<td>Rob Law</td>
<td>Senior Tutor</td>
<td><a href="mailto:r.law@imperial.ac.uk">r.law@imperial.ac.uk</a></td>
<td>020 759 45860</td>
</tr>
<tr>
<td>Emma Dell</td>
<td>Year 1 Tutor</td>
<td><a href="mailto:e.dell@imperial.ac.uk">e.dell@imperial.ac.uk</a></td>
<td>020 759 47177</td>
</tr>
<tr>
<td>Euan Doidge</td>
<td>Year 1 Tutor</td>
<td><a href="mailto:e.doidge@imperial.ac.uk">e.doidge@imperial.ac.uk</a></td>
<td>020 759 48173</td>
</tr>
</tbody>
</table>

Student Handbook 2018 | To find out more visit www.imperial.ac.uk/chemistry
Term dates:

- **Autumn Term**: Saturday 29 September to Friday 14 December 2018
- **Spring Term**: Saturday 5 January to Friday 22 March 2019
- **Summer Term**: Saturday 27 April to Friday 28 June 2019

We look forward to seeing you in the Department on Monday 1 October 2018.

Provisional Term Dates for academic year 2019/20 onwards:

https://www.imperial.ac.uk/admin-services/registry/term-dates/

The College and the Department expect you to be available for all term-time activities. However, if you need to be absent during term-time please contact Amelia (amelia.barron@imperial.ac.uk) prior to taking leave of absence.

**Some important information on communication:**

Once you have registered (which you can do online from 3rd September 2018 (please see page 8 for more details). You will be able to use your College ID to get access to Microsoft 365 software for free! You'll be able to install the latest version of Microsoft Word, Excel, PowerPoint, OneNote and much more on up to five compatible, personally owned PCs and Macs, plus five tablets, including iPad. Read more on: http://www.imperial.ac.uk/admin-services/ict/self-service/connect-communicate/email/use/

The Department will communicate a great deal of information via your College email account, so please do check it daily. Once you have your College email account set up please do make sure you communicate with the Department via that account rather than any other email address.
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Welcome to Chemistry from your HoD

Dear all,

Welcome to the Chemistry Department of Imperial College. You have all done brilliantly to have gained your place here and we are honoured that you have chosen us as the people to study with. You will, at some time or another, be taught by every one of our 55 academic staff, headed up by our Director of Undergraduate Studies. We, like you, come from all over the world, but have chosen Imperial as the best place to study Chemistry. We all look forward to meeting you.

We pride ourselves at Imperial College on being welcoming to anyone who has a passion to study Chemistry. We do not judge people on where they come from, the colour of their skin, who they are or what they believe. We expect you to remember this as you meet with your colleagues and all staff in the Department. In truth, you will discover that you have more to learn from people who are different to you than from people who are similar. It is the great diversity of people in the Department that makes Imperial such a fantastic place to be.

In your studies here, we hope to show you how exciting, stimulating and useful modern Chemistry is. You will find that studying at the cutting-edge of a subject at University requires a lot of commitment and probably more independent work than you were used to at school. However, our staff will always be happy to help you with your studies. The teaching team will also help you to navigate your way through the inevitable bureaucracy that comes from being in an organisation as big as this.

It might surprise you in a college that expects such a commitment to your studies that Imperial has one of the highest level of student society activities of any university in the country. We hope that you find something in these that you enjoy doing. If you can't, you can always start one of your own. We also have our own student society “ChemSoc” which organises talks and social events. Please get involved with this. We also have regular departmental social events where you can discover that your lecturers are human beings too.

We hope that you enjoy your studies here at Imperial and look forward to meeting you all.

Best wishes,

[Signature]

Alan
Head of Chemistry Department (HOD)
Dear All,

May I join our Head of Department in welcoming you to Imperial Chemistry? It goes without saying that you’re very excited to be starting at Imperial and beginning life in London, and in order to help you settle in, we have compiled this welcome booklet to help you in the first few weeks. While it cannot cover everything you need to know, it outlines the basics and will help to get you started. Of course, once you are in the Department you are going to meet a number of different people who will help you during your studies. In particular, in the first week you will be assigned a personal tutor, who is a member of academic staff who will take an interest in your progress as well as providing pastoral support. As well as your personal tutor there are the Year Tutors and of course our Student Experience Officer; you can learn more about them in the following pages. My role as acting Director of Undergraduate Studies (DUGS) is to manage the undergraduate degree programmes and to make sure that we provide you with the best opportunities during your studies.

If I think back to when I started at University (I was an Imperial Chemistry undergraduate from 1980 to 1983), I can remember being excited but also a bit daunted: I didn’t know anyone and I didn’t really know what to expect, and my guess is that you’re experiencing similar feelings right now. But please don’t worry; these feelings will soon evaporate. For sure these next few years are going to be challenging in terms of the hard work you will need to put in, but they’ll also be immensely rewarding and hugely enjoyable. You’ll make life-long friends whilst at Imperial and you’ll have myriad opportunities. The effort you put into everything you do during your time here will be reflected in what you achieve.

Finally, I know I speak for everyone in the Department in offering you a very warm welcome to our community. We’re looking forward to meeting you and to helping you become the best you can be over the coming years!

Prof Don Craig
Acting Director of Undergraduate Studies (DUGS)
Dear Students,

Congratulations on passing your exams and I hope you enjoyed your break over the summer. I look forward to welcoming you all into the department as you start your time as a student with us at Imperial College.

I am the Student Experience Officer (SEO) and I am here to ensure you enjoy every aspect of your course and receive support if required. I can be found within the Student Services Centre on the second floor, my office is 258A. I am responsible for the development and delivery of all aspects of the pastoral and academic support structure for our undergraduates, and will act as a point of primary pastoral care for all of you. I will be in regular contact to provide information and to listen to your feedback. I will also be available at any point for a chat or to help with any worries you may have regarding your wellbeing or for academic issues. My door is always open so please do come and introduce yourself.

Studying at university is very different to studying at a school or college. You are given greater independence and with that comes the challenge of managing your time to take full advantage of the academic and social opportunities here at Imperial College.

I look forward to meeting you all.

Amelia Barron
Welcome to the Chemistry Department at Imperial College London.

My name is Lorenz and I will be the Academic Departmental Representative for the Chemistry Department this year. My job is to improve your academic experience and address your concerns with the help of the year representatives that will be elected at the beginning of the academic year. I am in my 4th year at imperial, in which I (sort of) learned how to cope with life at Imperial.

Arriving at University can be difficult for most students as you get a lot more responsibilities whilst living alone for the first time in your life. This can may seem scary, however that also means that you gain more freedom and independence. Keeping both these aspects in mind can help you overcome these first few months. Another important thing to remember is that you are not alone, almost everybody arriving at Uni will have similar problems like you and before you know it, you will already be in your second year.

That brings me to my second point, enjoy your time here because it flies. Finding a good life/work balance is crucial for your own happiness and is something that will also help you later in your life. Keep in mind that for most people this will take time, but luckily that is exactly what your first year is for, because it counts the least of all your years at imperial.

My most important tip however is to simply start things. That means conversations, coursework studying, activities etc. In my experience the most difficult thing is the first step, in terms of coursework it would be the amount of work it would require which seems overwhelming, or in terms of meeting new people, actively approaching others can be difficult. So just start!

Imperial also has a massive amount of different societies, where you can try out new things. Try out as many as you can because you never know if you might enjoy one of them. Most societies have try out session for sports or introduction meetings for the cultural or artistic societies. There you can meet new people and it will also provide a great balance to the studying you will be doing.

And lastly, do not forget that you live in London. If you run out of things to do at imperial, you can certainly find something to do in London, from museums to clubs, everything can be found here. Getting out of campus occasionally, is also good your general well-being.

If you have any more questions or concerns, feel free to contact me Lorenz.hoffman15@imperial.ac.uk.

I hope you have a great time at Imperial!

Lorenz Hoffmann
Welcome to Imperial!

Congratulations (and a big well done, I must say!) for surviving two years of A-levels, countless revision hours, and your UCAS applications. You are now about to start your journey within the best department of a world-class university!

I’m Steph, your ChemSoc president this year. Our committee will be organising various academic, careers, and social events to welcome you into our Chemistry community. We will be hosting all sorts of seminars, pub quizzes, curry nights, and careers fairs throughout the year. Recent highlights include lectures from Nobel Prize winners, astronauts, and YouTube chemistry stars – so come along and unwind with us after a long day in labs. Oh and don’t forget our most popular event of the year, the annual Christmas dinner! (Make sure to get your tickets as soon as they are available!)

University will be different from school, and for many of you, it will be the first time you live away from home – and that is all part of the experience! We are here to make the transition into a new learning environment as smooth and fun as possible. Every year, we run the Mums & Dads scheme, where you are paired up with two students from older years who can offer help and guidance from first-hand experience.

Imperial has a lot to offer outside of the Chemistry department. From sports to arts and from volunteering to building a rocket, there is something for everyone. Societies are one of the best ways to meet people with common interests other than chemistry and to ensure a healthy work-life balance, so whether you are a sports enthusiast, a chess master, or an aspiring pilot, I would encourage you to give something a go during your time here.

You can keep up to date with ChemSoc events on our Facebook (https://www.facebook.com/ImperialChemSoc/) and Instagram page (@imperialchemsoc). You can also join our Chemistry freshers’ group on Facebook (https://www.facebook.com/groups/222893215068069/); it is a great place to ask questions as only students are members. If you have any questions or suggestions about ChemSoc or university life, please feel free to drop me an email at hyc116@ic.ac.uk.

I am looking forward to meeting you all!

Steph Cheng
ChemSoc President
Keeping up with ChemSoc

Information about upcoming events will be sent out in the ChemSoc weekly email and posted on our Facebook page (https://www.facebook.com/ImperialChemSoc/). Photos will be posted on Facebook and our newly created Instagram (https://www.instagram.com/imperialchemsoc/). If you have any suggestions for ChemSoc, you can find our contact the ChemSoc President, Steph Cheng, s.cheng@imperial.ac.uk

“Mums and Dads”

The buddy system is the first scheme you will encounter by ChemSoc. Freshers are grouped into “families” of 4-5 and will meet their “parents” in the first week. The “parenting” scheme is the perfect chance for you to interrogate the upper years about their experience so far, but this is not restricted to chemistry: Imperial offers a huge range of other societies, so get involved!

The Fun Side

Our flagship social event is the ChemSoc Christmas dinner: more than 200 students and staff members within the department come together every year to enjoy a delicious meal and an evening of music, dancing, and good company, so don’t miss out! We will be hosting all sorts of pub quizzes, curry nights, and bar nights – keep your eyes out for any announcements on that front!
Introducing your Department

The Department of Chemistry at Imperial was established with the Royal College of Science in 1845. Since then it has grown to become one of the largest departments in the UK, recognised as a world-class institution for both teaching and research. We boast 55 academic staff, many of whom are internationally renowned in their own fields, and distinguished former colleagues include five Nobel Prize winners including Sir Derek Barton, Lord George Porter and Sir Geoffrey Wilkinson (who even has a hall of residence named after him).

Other famous alumni include Sir Patrick Linstead (who also lends his name to a hall of residence), Henry Armstrong, Sir William Crookes and Sir William Perkin, who discovered the dye mauveine in this very Department and is now considered the father of the synthetic dye industry.

The Imperial learning experience is due to two main factors — your hard work and our teaching. In the 2016/17 academic year, Prof. Anthony Kucernak and Prof. Sue Gibson were presented with President’s Teaching Awards:

http://www.imperial.ac.uk/about/leadership-and-strategy/provost/vice-provost-education/presidents-awards-for-excellence-in-education/

and further Faculty teaching awards were bestowed upon Prof. Sue Gibson and Dr. Saif Haque

http://www.imperial.ac.uk/natural-sciences/education-and-teaching/fons-annual-prizes-for-excellence/

in recognition of the high quality of the education the Department provides.

However, our prowess does not stop purely at teaching. Professors Sue Gibson and Tom Welton have been awarded the OBE for services to chemistry and science communication, and Prof. Mike Bearpark is one of the developers of the Gaussian program, widely used in computational chemistry. If you are keen to learn more about our research please visit our research webpages:

http://www.imperial.ac.uk/chemistry/research/

The feeling of being immersed in such a globally-acclaimed Department is second only to the friends you make here. Our undergraduate cohort is international, with over 550 students from all four corners of the world, and this diversity is just another jewel in our crown.

Welcome to Imperial College Chemistry!
Before you arrive

Another year has passed and we are busily preparing for our new intake of students. The academic year begins on Monday 1 October for all new students, with welcome events and inductions throughout the first week. For new international students, there is a separate series of talks before the start of term, (see pg. 27).

There are some webpages on the Imperial College website that are for new students, they can be found at this link: http://www.imperial.ac.uk/students/new-students/undergraduates/

Registration
URL: www.imperial.ac.uk/studentsservice
Records and data URL: http://www3.imperial.ac.uk/registry/
currentstudents/howtoregister

All registration now takes place online, and opens this year on 4 September. You should have received instructions via email on how to register, including instructions on how to set up your College email account.

In summary, all students are required to fill in their personal details on Student e-Service and upload a photograph which will be used for your College ID card (CID). This option is only available up until the day before the course starts.

Overseas students will also be asked to upload the photo page of their passport and visa, and provide the corresponding passport and visa numbers.

It is advisable to print your ‘Registration Confirmation’ page — this will appear once you have registered — you may need this later.

INFO BITE

Your College email address is your main point of correspondence with your personal tutor, course administrator or any other College staff

College ID cards
URL: http://www.imperial.ac.uk/students/new-students/undergraduates/arrivals-and-induction/collecting-your-college-id/

Your CID is your identification card in and around campus, allowing you to access your halls, departmental buildings and the library. It also gets you the student price for food in the catering outlets on campus.

Most students will receive their CIDs on move-in day, but in case you do not fall into this category, the table below covers the different scenarios.

<table>
<thead>
<tr>
<th></th>
<th>Students in Halls of Residence</th>
<th>Students in Private Accommodation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photo upload- ed, arriving in week 1</td>
<td>Receive CID on move-in day</td>
<td>CID will be sent to your department for distribution</td>
</tr>
<tr>
<td>No photo, arriving in week 1</td>
<td>Bring Registration Confirmation to Security and have your photo taken. CID sent to your department for distribution</td>
<td>Bring Registration Confirmation page to Security and have your photo taken. CID sent to your department for distribution</td>
</tr>
<tr>
<td>No photo, arriving after week 1</td>
<td>Bring Registration Confirmation to Security and have your photo taken to obtain your CID</td>
<td>Bring Registration Confirmation page to Security and have your photo taken to obtain your CID</td>
</tr>
</tbody>
</table>

The Mingle is the Union’s official fresher’s welcome party.
The Year 1 Programme

Our year 1 programme is dependent on your programme choice but there is a core syllabus that all students will follow no matter which programme you are on.

Our core syllabus is made up of core lecture courses (topics) on chemistry as well as a laboratory module. Alongside the core lecture courses you will also take what is known as an ancillary. In some cases, this is already set i.e. if you are taking F124 our Chemistry with Medicinal Chemistry programme then your ancillary will be our “Medicinal Chemistry 1” ancillary. On the following pages you will find more information about the ancillary choices available. With this welcome booklet, you will have also been sent a link to our ancillary choice questionnaire, please complete this as soon as possible and no later than Friday 8 September 2017.

Alongside your programme and ancillary you may also take a course from “Horizons”, a College-wide programme, just for fun or for extra (non-degree) credit. The only caveat is that if you are taking a language as an ancillary, then you will not be able to take an extra Horizons course as they use the same time- tabled slot, unfortunately.

Your year 1 term 1 core lecture courses (you will also have a laboratory course as well as your ancillary lecture course):

<table>
<thead>
<tr>
<th>Lecture Module Code</th>
<th>Lecture Module Name</th>
<th>Lecture Module Topic</th>
<th>Name of Lecturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM40001</td>
<td>Introduction to Chemistry</td>
<td>Alkanes, Alkenes, Alkynes</td>
<td>Dr. Jochen Brandt</td>
</tr>
<tr>
<td>CHEM40001</td>
<td>Introduction to Chemistry</td>
<td>Atomic Structure</td>
<td>Dr. Andy Ashley (AEA)</td>
</tr>
<tr>
<td>CHEM40001</td>
<td>Introduction to Chemistry</td>
<td>Quantum Chemistry (Models)</td>
<td>Dr. Paul Wilde (CPW)</td>
</tr>
<tr>
<td>CHEM40001</td>
<td>Introduction to Chemistry</td>
<td>Solvents &amp; Solvent Effects</td>
<td>Prof. Tom Welton (TW)</td>
</tr>
<tr>
<td>CHEM40001</td>
<td>Introduction to Chemistry</td>
<td>Spectroscopy</td>
<td>Dr. Artem Bakulin (AB)</td>
</tr>
<tr>
<td>CHEM40001</td>
<td>Introduction to Chemistry</td>
<td>Spectroscopy and Characterisation</td>
<td>Dr. Phil Miller (PM)</td>
</tr>
<tr>
<td>CHEM40001</td>
<td>Introduction to Chemistry</td>
<td>Stereochemistry</td>
<td>Dr. Matt Fuchter (MJJ)</td>
</tr>
<tr>
<td>CHEM40001</td>
<td>Introduction to Chemistry</td>
<td>Structure Mechanism and Reactivity</td>
<td>Prof. Alan Armstrong (AA)</td>
</tr>
<tr>
<td>CHEM40005</td>
<td>Chemistry Coursework 1</td>
<td>Measurement Science 1</td>
<td>Dr. Emma Dell (ED)</td>
</tr>
<tr>
<td>CORE COURSES</td>
<td>NUMBER OF LECTURES AND PROBLEM CLASSES</td>
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<td></td>
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<td>MATHS provision</td>
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<tr>
<td>Mathematical Physics</td>
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<td>CHEMISTRY</td>
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<td>Inorganic Chemistry</td>
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<td>Organic Chemistry</td>
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<tr>
<td>Physical Chemistry</td>
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<tr>
<td>Foundational Chemistry</td>
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</tr>
</tbody>
</table>

### Overview of lecture topics for Year 1

#### INORGANIC
- Periodicity
- Coordination Chemistry
- Introduction to Physical Organic Chemistry

#### ORGANIC
- Spectroscopy and Characterisation I
- Alkanes, Alkenes, Alkynes
- Protons and Protonic Solvents

#### PHYSICAL
- Atomic Structure
- Spectroscopy and Characterisation II
- Spectroscopy of Polymers

#### MATHS
- Maths I
- Maths II
- Chemical Kinetics

### Core courses
- Maths and Physics for Chemists
- Ancillary lectures
- Extra maths support lectures

### Ancillary courses
- Medical Chemistry 1 Ancillary

### Initials of the lecturer
- Coordination Chemistry
- Physical Organic Chemistry
- Animal Chemistry
Sample Timetable

A sample (not real) lecture timetable of a student taking the maths and physics for chemists 1 (MPC1) ancillary.

A lecture course where the topic comes in to speak about their sector, it is a great way to learn about different companies.

We run a lecture course where the topic comes in to speak about their sector, it is a great way to learn about different companies.

A problem class for stereochemistry.

As a reminder, horizons slots sit in your timetable.

When you are not in lectures, labs, tutorials and problem classes, our expectation is that you are undertaking private study. Many students do this in groups and all of our tutorial spaces, computer rooms, library close by are available for group work.

Things to note:
1. This is the lecture timetable for a particular student. Your timetable will contain all information that you require but could look different to your class colleague.
2. There are also academic tutorials (inorganic, organic and physical) which will appear in the timetable at a rate of 2 tutorials per lecture course.
3. There is also a separate lab timetable (MPE1) that your labs will run on Monday, Tuesday, Thursday and Friday mornings. In the instance of 3 out of 4 days, it is a personalised timetable.
4. We do not teach on Saturday or Sunday.
5. When you are not in lectures, labs, tutorials and problem classes, our expectation is that you are undertaking private study. Many students do this in groups and all of our tutorial spaces, computer rooms, library close by are available for group work.

Student Handbook 2018 | To find out more visit www.imperial.ac.uk/chemistry
Imperial Mobile

Imperial mobile is the way that most students access information regarding their timetable, email, our virtual learning environment (BlackBoard) as well as many central College and Student Union services and information.

More information about the app and how to download it can be found here:

http://www.imperial.ac.uk/students/online-services/mobile/

We are really keen that you download the app as soon as you are able and once timetables are released, use the app to access your timetable on a regular basis. Our timetables do change and whilst we make every effort to make sure you are aware of any planned changes it is important that you check your timetable via the app on a regular basis.
Choose your Ancillary

URL: http://www.imperial.ac.uk/chemistry/undergraduate/course-structure-and-content/ancillary-programme/

Ancillary courses are supplementary courses to the core syllabus. For most students, this will be an unrestricted choice of any of the following ancillaries listed, but some degrees have pre-determined ancillaries (e.g. F124 must choose Medicinal Chemistry 1). The courses take up 50-60 teaching hours across the Autumn and Spring terms and are examined in the Summer term.

In addition to taking an ancillary, you may want to participate in the Imperial Horizons scheme. This course is not for credit (so not examined), but is designed to broaden your education. Topics include Science, Society and Culture and Global Challenges, and will develop your skills in problem-solving, communication and teamwork.

Further information on the ancillaries and Horizons can be found in the following pages and at the link above. If in doubt, ask a question on the Chemistry Freshers Facebook group or contact Amelia. The Department allows you to change your ancillary within the first few weeks of term but there is a deadline for ancillary choice transfers which is the end of Week 5.

Medicinal Chemistry 1 (MC1)

This course is compulsory for students registered on the F124 and F125 degree programmes but may be taken by the following programmes as well: F100, F101, F103, F104, F105, F1NF, FN11.

A minimum of AS-level knowledge of biology will be assumed throughout. It is therefore recommended that all students coming on to the Medicinal Chemistry course have a good grade at AS-level (preferably A-level) biology. For those without AS-level biology or those wanting to brush-up on their biology, pre-course material will be made available on Blackboard prior to the start of the Medicinal Chemistry course.

The course comprises a series of lecture courses given by staff from the Chemistry Department covering the following topics: 1) Protein structure and function. 2) Molecular cell biology underpinning drug discovery. 3) Introduction to medicinal chemistry and drug discovery. 4) Introduction to physiology and disease. 5) Enzymes.

Please do contact the Course Coordinators: Simon Gerrard and Charlotte Sutherell if you have any queries.

s.gerrard@imperial.ac.uk

Students say I thought all the modules were taught well. They were all interesting, although you shouldn't underestimate how much there is to learn! It's fine though, I just started revising earlier.

Student Handbook 2018 | To find out more visit www.imperial.ac.uk/chemistry
Languages

URL: http://www.imperial.ac.uk/horizons/course-options/first-year-undergraduates/

The appropriate language courses are compulsory for students registered on the F101*, F104*, F1R1, F1R2 and F1R4 degree programmes. *if you intend to go to a non-English-speaking institution and country.

Currently French, German and Spanish are available. All language courses are based on a communicative approach, covering all four skills (speaking, listening, reading and writing) and at the higher levels, in addition to a thorough introduction to the pertinent culture and society, you will be able to give presentations on chemistry, read general and specialist articles as well as contribute to discussions on a wide range of topics. Assessment is by coursework throughout the year as well as one written and one oral examination.

If you are registered on F100, F101*, F1N2, F103, F104*, F105, F1NF, FN11, (*and you intend to go to Singapore, the Netherlands or the USA) you may take any Horizons language course as your ancillary in your 1st year (if your course does not have a set ancillary)."

All language students are eligible for the Sir Arthur Acland Prize, awarded for Excellence in Modern Languages

Maths and Physics for Chemists (MPC1)

This course is compulsory for students registered on the F1F3 and F1FH degree programmes.

However, may be taken by the following programmes as well: F100, F101, F103, F104, F105, F1NF, FN11.

The course comprises a series of lectures and tutorials given by staff from the Departments of Mathematics and Physics covering the following topics:

1) Mathematics: review of concepts, basic calculus and integration; series; multivariate functions and their differentiation; complex numbers; ordinary differential equations (ODEs).

2) Physics: basic mechanics, vibrations and waves.

A predisposition to study Mathematics is essential for this course.

Please contact the Course Coordinator: Dr. Joao Malhado (malhado@imperial.ac.uk) if you have any queries.
Imperial Horizons offers you the opportunity to enrich your education, enhance your CV and impress future employers.

Looking to get the most out of your degree?

Develop your intellectual curiosity and skill set with the Imperial Horizons programme for undergraduates. We offer a wide range of course options to stimulate your personal, professional and intellectual growth. Options are available from four fields of study.

- Business & Professional Skills
- Global Challenges
- Science, Culture and Society
- Languages

**Key benefits:**

**Transferable skills.** Our courses will help you to develop transferable skills such as communication, team-working, problem-solving, business and organisational awareness.

**Make your degree transcript stand out.** If you take an Imperial Horizons option for degree credit your final mark will appear on your transcript. If you take it for non-credit or extra-credit only ‘pass’ ‘merit’ or ‘distinction’ will show, and ‘fails’ will not be recorded.

**Free and during normal teaching hours.** There is a dedicated Imperial Horizons time slot for each year group. No additional fee is charged for Imperial Horizons.

**First Years Horizons modules run 16.00-18.00 on Tuesdays.**

Students wishing to study on a Year Abroad/Year-in-Europe degree, will need to enrol online for their Horizons Language course and will then be allocated to the relevant Year-in-Europe Language class. [www.imperial.ac.uk/languages/year-in-europe/](http://www.imperial.ac.uk/languages/year-in-europe/)

**Do you have further questions about the Imperial Horizons Course options for 2018-19?**

Come to our Open Day, meet teaching and administrative staff, and ask any questions you may have or confirm your language level.

**When:** Friday 5 October 2018 from 11.00-15.00  
**Where:** Centre for Languages, Culture & Communication, Sherfield Building, Level 3

An information stall will also be available during Welcome Week on the ground floor concourse of the Sherfield Building and at Freshers’ Fair on Tuesday 2 October.

Register your course preferences on the Imperial Horizons website during Welcome Week, before the deadline of midnight **on Monday, 8 October 2018.**

To find our more, visit our website: [www.imperial.ac.uk/horizons](http://www.imperial.ac.uk/horizons)

<table>
<thead>
<tr>
<th></th>
<th>Enrolment opens</th>
<th>Enrolment closes</th>
<th>Allocations confirmed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incoming 1st years 2018-19</td>
<td>Monday 3 September</td>
<td>Monday 8 October</td>
<td>Friday 19 October</td>
</tr>
</tbody>
</table>
Industrial Placements and Internships

The job market is a competitive space for graduates. A proven way to give yourself an edge over other graduates is by completing work experience during your undergraduate studies.

We work closely with potential employers, and are regularly told that graduates are specifically targeted who have completed work experience, as these individuals are recognised as having gained transferrable skills, demonstrated professionalism, and be considered job-ready.

To support you in finding, and applying to suitable 12 month placements, summer internships and graduate jobs, there are a number of specific events run by the Department in collaboration with both Imperial’s Career Service as well as our employer network. Professional skills slots will appear in your timetable and the Department strongly advises you to attend these events.

Although finding a position will ultimately be your responsibility help will be available at every step of the process.

If you wish to gain work experience during your undergraduate degree, you may be interested in transferring on to our degree programmes that include a Year in Industry – FN11, F105, F125, F1FH, F101.

In these 5 year programmes, a 12 month placement is completed at a host company within a graduate level role during Year 4.

Imperial Chemistry alumni have previously completed placements at the following companies:

<table>
<thead>
<tr>
<th>3M</th>
<th>Cambridge Display Tech Ltd</th>
<th>Hexcel Ltd</th>
</tr>
</thead>
<tbody>
<tr>
<td>AkzoNobel - ICI Paints</td>
<td>Deutsche Securities Inc</td>
<td>Home Office Scientific Development Branch</td>
</tr>
<tr>
<td>AkzoNobel - International Paint Ltd</td>
<td>Diageo</td>
<td>Johnson Matthey</td>
</tr>
<tr>
<td>Analytical and Tracer Solutions (Tracerco)</td>
<td>DSTL</td>
<td>King’s College London, Drug Control Centre</td>
</tr>
<tr>
<td>AstraZeneca</td>
<td>Element 6</td>
<td>Lubrizol Limited</td>
</tr>
<tr>
<td>AWE</td>
<td>F Hoffmann La Roche Ltd</td>
<td>Medical Research Council Technology</td>
</tr>
<tr>
<td>BASF</td>
<td>Firmenich</td>
<td>Merck Chemicals Ltd</td>
</tr>
<tr>
<td>Boehringer Ingelheim</td>
<td>GSK</td>
<td>Merck Sharp &amp; Dohme</td>
</tr>
<tr>
<td>British American Tobacco</td>
<td>Heptares Therapeutics</td>
<td>Mitsui OSK Bulk</td>
</tr>
<tr>
<td>Novartis</td>
<td>Randox Laboratories</td>
<td>Schlumberger</td>
</tr>
<tr>
<td>Pfizer Ltd</td>
<td>Route des Jeunes 1</td>
<td>Solvay Chemicals</td>
</tr>
<tr>
<td>Plaxica</td>
<td>Rutherford Appleton Laboratory STFC</td>
<td>UCB</td>
</tr>
<tr>
<td>CSIRO</td>
<td>Mondelez</td>
<td>Bristol-Myers Squibb</td>
</tr>
</tbody>
</table>

Student Handbook 2018 | To find out more visit www.imperial.ac.uk/chemistry
A bit of light Maths

Dear students,

I hope you have had an enjoyable summer and that, after pictures of you jumping in the air whilst holding a piece of paper with some A-level results on it recently appeared in the National Press, you are ready to begin your Chemistry degree.

Many people think that all chemists do is slave over a hot flask filled with a lurid coloured liquid that's both bubbling disturbingly and giving off a thick vapour as they strive to make a new cancer drug or turn base metal into gold.

Thus it comes as quite a surprise to them to find that Chemistry involves a fair amount of Maths. These days, you might find that before a research scientist dashes off to the lab to stew up some coloured liquids and make a new drug, someone has actually harnessed the power of computers and calculations to see if the new drug is predicted to be useful based on its chemical structure (bond lengths and angles all calculated) and how it will interact with other molecules, proteins, DNA or cell membranes in the body. Crunching the numbers before going to the lab saves lots of time and money.

This is just one area where Mathematics and computational work underpin chemistry but is perhaps an area of the subject that is a bit too advanced for the first year of a Chemistry degree. However, it makes the point that mathematical methods are increasingly important to many Chemists and it reminds us that a high proportion of the fundamental building blocks of Chemistry (many of which you will already have encountered, e.g. kinetics, thermodynamics, spectroscopy and quantum mechanics to name four) require a good understanding of a range of mathematical methods and techniques.

The Department asks new students to carry out some revision work over the summer in preparation for the course. You will need to be confident in using the maths you studied at A-Level (or equivalent) to be able to appreciate many aspects of the Chemistry that you will learn (the previous paragraph contains some examples, you will encounter many more as you progress through your degree). The purpose of this revision is therefore to help you consolidate this material in preparation for the start of term.

The amount of time involved is not a lot and the material should not be new to you. All the material you need should be available either in your own notes or in standard text- books (textbooks are those things we used before the internet came along- ask your Mum or Dad to show you one if you are not sure).

In the first week of term you will be required to take a Mathematics test. It is compulsory for all students and is designed to test your understanding of the Maths that underpins the Chemistry in the first part of year 1. If you have been able to work through the topics without major problems, you should have no difficulty with the test and should expect to achieve high marks.

However it is possible that, once the results of the test are known you may be required to attend an extra series of mathematics lectures.

Further details will be provided during induction classes in the first week. I look forward to meeting you in October.

Dr. Paul Wilde
Revision Checklist

General arithmetic without the use of a calculator (addition, subtraction, multiplication and division)

The use of significant figures (this will include having to multiply or divide numbers expressed with differing numbers of significant figures)
Rearrangement of algebraic expressions including those that involve simple powers and roots. This will include, but not be restricted to, factorisation and changing the subject of an equation

Conversions between units:

Whilst Chemists try to use SI units where possible, many quantities are in fact more easily discussed in the older units (e.g. it’s easier to say that a photon has an energy of 2 eV than an energy of 3.20438 x 10^-19 J! or that the bond length of the OH bond in water is about 1 Å rather than 10^-10 m). Thus you will find units such as Angstroms (Å) and electron volts noted below.

Lengths: km, m, dm, cm, mm, µm, nm, Å, pm.
Areas and volumes based on the length units cited above.

Energy: Joules (J), calories (cal), electron-volts (eV).
Temperature: Celsius (°C), Fahrenheit (°F), Kelvin (K).
Pressure: atmospheres (atm), Pascals (Pa), bar, torr.
Speed: m/s, cm/s, km/h, miles/h.
Conversion between moles and number of molecules.
Conversion and understanding of Cartesian and polar coordinates.
Angles: radians, degrees.

Trigonometry and Algebra:

- Plotting trigonometric functions without the use of a graphical calculator. This will include functions of the form A sin(kx), A cos(kx) and A tan(kx) where A and k are constants.
- Calculating the volumes and areas of cylinders, spheres and cuboids.
- Obtaining algebraic solutions to simultaneous equations.
- Explaining the difference between explicit and implicit functions.

STUDENTS SAY You need 80% to pass this initial maths test. It’s easy enough, just make sure you know your unit conversions! Nothing happens if you “fail” - you just need to attend a few maths refresher lectures.

INFO BITE This is a diagnostic test: this means it is an opportunity to identify if you need some additional support in the form of refresher lectures.
**Bases, Powers and Logarithms:**

Multiplication and division of numbers or equations expressed in terms of bases and powers (i.e., in terms of the form $a^n$ and/or $10^x$). The powers may be positive, negative and fractional (e.g. $a^2$, $a^{-2}$, $a^{1/2}$). Examples include (but will not be restricted to)

$$a^x \times a^y = a^{(x+y)}; \quad a^x \div a^y = a^{(x-y)}; \quad \left(\frac{a^x}{a^y}\right)^y = a^{(xy)}$$

The use of the logarithmic functions $\ln$ and $\log$:

$$\log(a) + \log(b) = \log(ab)$$
$$\log(a) - \log(b) = \log(a/b)$$
$$\log(a^b) = b \log(a)$$

**Differentiation:**

- Polynomials including functions of the form $f(x) = ax^b$ Exponentials and logarithms (e.g. $f(x) = b \ e^{ax}$; $f(x) = a \ ln(x)$)
- Trigonometric functions (e.g. $f(x) = \sin(kx)$; $f(x) = \cos(kx)$; $f(x) = \sin^n(kx)$; $f(x) = \cos^n(kx)$)

Using the chain rule $(dy/dx) = (dy/du) \times (du/dx)$ Using the product rule $d(u \times v) = (uv)du + vdu$ Using the quotient rule $(du/dv) = [v(du/dx) - u(du/dv)]/v^2$

**Integration:**

- Power functions (e.g. $dy/dx = ax^{n+1}$)
- Logarithmic, exponential, sin and cosine functions

- Using integration to calculate the area under a graph (i.e. integration with limits)

**Graphs:**

- Sketching linear, quadratic, exponential and logarithmic functions without the use of a graphical calculator.
- Determining turning points (maxima and minima) using the second differential of an equation.

**STUDENTS SAY** I read this list before I came and had no idea what Å (angstrom) was. It’s $1 \times 10^{-10}$ metres.

Also, please don’t stress about this compulsory maths test — it’s really easy, and it’s even multiple choice.
Week 1

Your first few days at College will be busy settling in, getting to know your peers and learning about the Department. We have arranged a number of activities starting at 09.30am Monday 2nd October in the Department. The timetable below is provisional and will be finalised in preparation for your arrival (so expect timings and venues to change). We encourage you to attend these sessions and some are compulsory. However, if because of travel arrangements you are unable to, please let us know as soon as possible.

<table>
<thead>
<tr>
<th>DAY</th>
<th>TIME and VENUE</th>
<th>EVENT</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday 1</td>
<td>09.30 – 10.00</td>
<td>Collection of folders</td>
<td></td>
</tr>
<tr>
<td>October</td>
<td><strong>Outside Pippard Lecture Theatre, Level 5 Sherfield</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>10.00 – 11.30</strong></td>
<td><strong>Pippard Lecture Theatre, Level 5 Sherfield</strong></td>
<td>Welcome by Prof. Don Craig (Acting Director of UG Studies) and Amelia Barron (Student Experience Officer) Collection of Induction folders</td>
<td></td>
</tr>
<tr>
<td><strong>11.30 – 12.00</strong></td>
<td><strong>Pippard Lecture Theatre</strong></td>
<td>Library Induction</td>
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<tr>
<td><strong>12.00 – 12.30</strong></td>
<td><strong>Pippard Lecture Theatre</strong></td>
<td>Introduction to Blackboard and ICT information</td>
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<tr>
<td><strong>12.30 – 13.00</strong></td>
<td><strong>Pippard Lecture Theatre</strong></td>
<td>ChemSoc Presentation</td>
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<td></td>
<td><strong>13.00 – 14.00</strong></td>
<td>ChemSoc Lunch</td>
<td>Come and meet your Chemistry Mum and Dad and enjoy a free lunch!</td>
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<tr>
<td></td>
<td><strong>Chemistry Common Room</strong></td>
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<tr>
<td><strong>14.00 – 15.00</strong></td>
<td><strong>Great Hall</strong></td>
<td>Provost’s Welcome To UG Natural Sciences 1 (Life Sciences, Chemistry)</td>
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<tr>
<td><strong>15.00 – 16.00</strong></td>
<td><strong>Pippard lecture theatre, Sherfield</strong></td>
<td>ChemSoc Tour of the Department and campus</td>
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</tr>
<tr>
<td><strong>16.00—17.00</strong></td>
<td><strong>Pippard Lecture Theatre</strong></td>
<td>Ancillary Choices talk</td>
<td>ChemSoc Seminar and reception</td>
</tr>
<tr>
<td>DAY</td>
<td>TIME and VENUE</td>
<td>EVENT</td>
<td>COMMENTS</td>
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<tr>
<td>Tuesday 2nd</td>
<td>11.00 – 16.30 Great Hall, Sherfield, Beit Quad</td>
<td>ALL DAY Student Union Freshers' Fair Introduction to your department</td>
<td>You are free all day to enjoy the Freshers' Fair. However, if you have any queries about your course please feel free to pop by the Student Services Centre, level 2 room 258</td>
</tr>
<tr>
<td>October</td>
<td>16.00 – 18.00 Venue to be confirmed</td>
<td>Language talks</td>
<td>For those students taking joint honour with language programmes</td>
</tr>
<tr>
<td>Wednesday 3rd</td>
<td>12.00 onwards</td>
<td>Sports Trials</td>
<td>You are free from noon on Wednesday in order to attend any Sports trials that you wish</td>
</tr>
<tr>
<td>October</td>
<td>9.30 – 10.30 B10 Lecture Theatre, White City Campus</td>
<td>Welcome Talk Head of Department: Prof. A Armstrong,</td>
<td></td>
</tr>
<tr>
<td>Thursday 4th</td>
<td>10.30 – 11.30 B10 Lecture Theatre, White City Campus</td>
<td>General Safety Lecture</td>
<td>This is a compulsory part of your induction week – attendance will be monitored</td>
</tr>
<tr>
<td>October</td>
<td>11.30 – 12.00 B10 Lecture Theatre, White City</td>
<td>Royal Society of Chemistry (RSc) Talk</td>
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<tr>
<td></td>
<td>12.00 – 13.00 Level 10 i-Hub</td>
<td>Lunch and University Research Opportunity Programme Poster Session (UROP)</td>
<td>Over lunch you will get the opportunity to see the types of undergraduate research opportunities available – the research you will see will be presented by the undergraduates who have completed the work.</td>
</tr>
<tr>
<td></td>
<td>14.00 – 17.00 More details to follow</td>
<td>Meet your personal tutor</td>
<td></td>
</tr>
<tr>
<td>Friday 5th</td>
<td>9.00-11.00 RCS1 Lecture Theatre C</td>
<td>Introduction to UG labs</td>
<td>The welcome pack you collect on Monday will tell you which session you must attend.</td>
</tr>
<tr>
<td>October</td>
<td>9.30 – 11.00 C1 135 or 232</td>
<td>Python programming</td>
<td>The welcome pack you collect on Monday will tell you which session you must attend.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Measurement science</td>
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<tr>
<td></td>
<td></td>
<td>Introduction to Synthesis, basic lab safety</td>
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<td></td>
<td>Or</td>
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<td></td>
<td></td>
<td>Maths diagnostic test</td>
<td></td>
</tr>
<tr>
<td></td>
<td>11.00 – 13.00 RCS1 Lecture Theatre C</td>
<td>Introduction to UG labs</td>
<td>The welcome pack you collect on Monday will tell you which session you must attend.</td>
</tr>
<tr>
<td></td>
<td>11.00 – 12.30 C1 135 or 232</td>
<td>Python programming</td>
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<td>Or</td>
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<tr>
<td></td>
<td></td>
<td>Maths diagnostic test</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13.00 – 14.00 Chemistry Common Room</td>
<td>Lunch with key Undergraduate Staff</td>
<td>Come for lunch and ask any questions about University, the course or your transition.</td>
</tr>
<tr>
<td></td>
<td>11.00 – 15.00 Centre for Languages, Culture &amp; Communication, Sherfield Level 3</td>
<td>Horizons Options Open Day</td>
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</tbody>
</table>
Welcome and congratulations! You have achieved something to be really proud of. My name is Rob Law and I am the Senior Tutor in the Department of Chemistry. My role is to oversee the “pastoral” aspects of your undergraduate lives, here at Imperial. This means everything that is non-academic. Coming to University is a great change in your lives and our role is to help facilitate this transition and support you throughout your years at Imperial. We want you to succeed.

In your time at Imperial, however, some of you will encounter problems or difficulties caused by a wide variety of circumstances, many of which you’ll have no control over, this can include accidents, sudden illness, bereavements etc. If these circumstances affect your academic performance, you must tell us immediately.

If things go wrong, our role is to

a) direct or signpost you to the appropriate help

b) aid you through mitigation process for your coursework or examinations. For example, if you miss an exam, to obtain mitigation, you will need to provide evidence (e.g. an appropriate doctor’s note or councillor’s letter) that states that you have been ill for that particular exam. Mitigation must be submitted for each and every occasion and cannot be continuous. To apply for mitigation or to get some help you’ll need to contact your Personal Tutor first and s/he will then instruct you about the relevant procedures. If there is a complex set of circumstances the Year Tutors will get involved.

Your Year Tutors are Euan Doidge and Emma Dell but please contact your Personal Tutor first.

Once you are in the Department we will explain more our support mechanisms but the diagram above shows that you have many people who will be available to support you, not forgetting our SEO Amelia!
Your Year Tutors

The role of the Year Tutor is to act as a deputy senior tutor for the year. They are highly regarded personal tutors with many years of experience and are able to support personal tutors in their duties. For year 1 this year the year tutors will be Emma Dell and Euan Doidge. In the first instance you should always contact your personal tutor if you need advice or help. However, the year tutors, the SEO and the DUGS are also available for further advice or help, please just ask!

Emma Dell
e.dell@imperial.ac.uk

Euan Doidge
e.doidge@imperial.ac.uk

INFO BITE Most staff operate an ‘open door’ policy, meaning that anyone is welcome to knock on their door and speak with them. Please note that this is only intended for brief meetings; if you need a longer timeslot, email them to arrange an appointment!
**Welfare Officers**

Henry Wild is the RCSU Welfare Officer and Fintan O’Connor is Deputy President (Welfare) for the Union. Both promote welfare and health and safety issues in the Union through campaigns and act as feedback mechanisms to improving the College.

**Wardens**

The Warden teams in halls are responsible for all hall residents. They ensure that the hall environment is conducive to studying and organise activities like barbeques and trips to the West End theatres.

**Health**

The Dentist and Health Centre are located on Princes Gardens and are open Mon-Fri 8-8 and 8-6.30 respectively during term time. You are highly encouraged to register with them as soon as possible.

**Chaplaincy**

Based in Beit’s East Basement, the chaplains come from different Christian backgrounds and work with Hindu, Muslim, Jewish and Sikh chaplains in London. Their regular social events include retreats and speaker events.

**Student Support Services**

http://www.imperial.ac.uk/student-space/

**Student Support Fund**

The SSF is a fund to help all students who are going through financial difficulty. It’s primarily used to help those who have a change in financial circumstances after registering with College.

**Equality**

The Equality and Diversity Unit ensures that equality is built into the College's policies and practices to eliminate discrimination, and builds collaborations with appropriate community groups and professionals.

**Tutors**

In addition to the Senior Tutor (Rob) and your personal tutor, (who will be assigned to you also can contact your year tutors (e.g. Silvia) and College tutors, regardless of your course or department (Dr Simon Archer, Dr Mick Jones, Dr Lynda White & Mr Colin Kerr) can be contacted regarding any aspect of pastoral care in College (collegetutors@imperial.ac.uk)

**Careers**

The Careers Service is found on Level 5 of Sherfield, and runs workshops and careers fairs throughout the year. They also provide one-to-one help with writing a CV and interview preparation.
Further Information for Students with Disabilities

Michael Bearpark is the Disability Liaison Officer for the Chemistry Department. For the past five years, he has been a central department contact for students and staff, liaising outside particularly with central support services and the college’s medical centre and academic registry. As Disability Liaison Officer, Mike is here to help you arrange extra support within the Department that you may need.

For example, he can apply for special examination arrangements on your behalf with up-to-date documentation, or discuss adjustments for you in confidence with lab coordinators. This is usually done by arranging a meeting to review any previous special arrangements that you’ve had. The sooner you make contact the better – it doesn’t matter whether you declared a condition when you applied. Anything you want to discuss is confidential.

Mike is also the person to approach during your time at Imperial if you think that you have an unrecognised condition that is affecting your studies, before making contact with the college’s central disabilities service.

For further information, please visit the Chem Central module on Blackboard Learn, our Virtual learning Environment (VLE). It is probably best that you do this once you are at College, as we will teach you more about our VLE during Induction week and how to access it!

Best,

Prof. Mike Bearpark (m.bearpark@imperial.ac.uk)

Disabilities Officer
When You Arrive

URL: http://www.imperial.ac.uk/disability-advisory-service/

There are two ports-of-call that you should make contact with as soon as possible — the Disabilities Advisory Service (DAS) and the Departmental Disability Officer (DDO). The DAS offers confidential advice and support to ensure that you can study successfully, from helping to arrange longer library loans to giving advice on the funding options available for disability-related support. The DDO (Prof. Mike Bearpark) will facilitate your support within the Department.

Extra Time:


Some students have had extra time allowances in their school exams at GCSE and/or A level. This is often for reasons such as dyslexia, or because of another learning difficulty. Please note that extra time in College examinations is not granted automatically because you have had extra time at school. The first exam in Year 1 is typically within the first few weeks after the Christmas holidays so it is important to apply as early as possible.

Special exam arrangements are made by the Registry following a request from the DDO; contact him to start your application. Note that applications should be made at least six weeks before your first exam.

To apply, a Full Diagnostic Assessment is required and this must have been undertaken by either a Chartered Psychologist or a Specialist Teacher holding a current Practising Certificate in SpLD. The report must have been completed after the applicant was sixteen years of age and be no more than ten years old. Many students arrive at College with doctor’s reports that are too old or which have not been carried out by an appropriately qualified person. If the report does not meet the criteria, then a new assessment is required. This is normally done with the assistance of the College Disabilities Officer (Mary Bown) but this will take time so it is important to start the process as early as possible.

If you wish to discuss your disability or supporting documentation, you can email Mary (m.bown@imperial.ac.uk) to arrange an appointment.

INFO BITE Mary Bown, the College Disabilities Officer, has an office on Level 5 of the Sherfield building, the main administrative building on the South Kensington campus. Contact her by email at disabilities@imperial.ac.uk

Disclosing a Disability

URL: https://www.imperial.ac.uk/disability-advisory-service/current-students/confidentiality/disclosure/

If you have a learning difficulty or enduring health condition, you should inform the College so that reasonable adjustments can be made so that barriers to studying are reduced.

You can choose to disclose a disability at any point on your course but the sooner you do it, the sooner adjustments can be put in place to help you ensure that you achieve the same academic potential as other students.
Further information for International Students

URL: http://www.imperial.ac.uk/study/international-students/
Email: international@imperial.ac.uk

The international office has created a short arrival guide which will help you orientate during your first few weeks at Imperial College. There is also a great website for new international students with lots of information about services available to help get the most out of your time at Imperial.

http://www.imperial.ac.uk/students/new-students/international-students/

Travelling to Imperial

Public transport links in London are very convenient, and there are several ways you could get to the Imperial campus.

Train

There are regular trains from Heathrow, Stansted, Gatwick, and Luton airports into Liverpool Street, Victoria and St Pancras Stations respectively, and the wait between trains is usually 15-30 minutes.

Tube

The South Kensington campus is on the Circle, District and Piccadilly lines. Liverpool Street and Victoria are both on the Circle line and St Pancras and Heathrow are both on the Piccadilly line, which means that there is a direct line from the airports to Imperial — a good thing when you have lots of bags! http://www.tfl.gov.uk/

Taxi

If you feel that you have more bags than you can handle, you may prefer to book a taxi: https://tfl.gov.uk/modes/taxis-and-minicabs/. It will be more expensive than public transport.

INFO BITE: Oyster cards (a stored-value travel card) can be purchased from all tube stations. You can also use contactless credit or debit cards on the tube and bus networks.
General Information

Campus Facilities

Library
URL: http://www.imperial.ac.uk/admin-services/library/

The Central Library is open 24/7 except for maintenance on Friday nights. Each of its five floors has a designated noise level to help everyone find their best working space, with an extensive catalogue of material that supports taught courses as well as research. Some students may prefer to work in groups, so group study rooms are also available.

Ethos—sport facilities
URL: http://www.imperial.ac.uk/ethos/

During the 2012 Olympics, the Japanese and Swiss teams used our facilities, which range from a gym and pool to badminton courts and a climbing wall. The four-storey sports centre on Prince’s Gardens also offers fitness classes and therapy sessions. Students have free use of the gym and pool and discounted fees when booking courts.

Catering outlets
Working brains need food. Commercial services has a range of eateries around South Kensington from cafés (including one in Chemistry!) to a bar/restaurant in Eastside halls of residence. A wide variety of food and drink is available, from sushi and vitamin water to jacket potatoes to pies and salad. You can also get the student price for food — just flash your CID card for a discount!

Bursaries and Scholarships
URL: http://www.imperial.ac.uk/fees-and-funding/
URL: http://www.imperial.ac.uk/study/ug/fees-and-funding/bursaries-and-scholarships/

Some students may be eligible for financial aid in the form of a bursary, which are typically means-based. Scholarships are also available to home and international students, and more information can be found through the links above.

INFO BITE: make an electronic signature for your email account, which includes your CID number, year and degree programme. That way the recipient knows exactly who they are addressing.

Student Hub
URL: http://www.imperial.ac.uk/student-hub/
Email: student.hub@imperial.ac.uk

The Student Hub (Level 3, Sherfield Building, South Kensington Campus) and is a comprehensive information service run by knowledgeable staff who can answer your questions about university services.

During arrivals weekend, the Hub will be open between 9AM and 5PM to answer all queries and take payment of fees.

Your first encounter with the Hub will probably be paying your tuition fees. The different ways of submitting payment can be found here. Please note the hub will not be taking cash this year, so online payment is strongly encouraged.

The Hub can also provide important documents such as bank letters, transcripts and statements of attendance, which can be used as supporting evidence when opening a bank account or applying for travel visas. As the first weeks of term are some of the busiest, it is highly advisable to pre-order the documents you need. The Hub will be central throughout your degree, later providing information about finances, accommodation and even research opportunities.
Journals and Software

The Department has purchased membership for various journals so that you do not need to buy the individual papers in those publications. In College the journals will recognise your credentials but just use your Imperial credentials to log in (via Institution) at home. The Department also hold licences for commonly used software such as ChemDraw Professional, Origin and MatLab, and these programs can be downloaded onto your devices for use outside of College.

STUDENTS SAY The textbooks are really useful but I haven't used them enough to justify spending so much (over £150)! The library is very well equipped and it's such a hassle to travel with books that are so large and heavy! If anything, you should consider buying an electronic version.

INFO BITE: ChemSoc run a used book and modelling kit sale usually in Week 3 of the autumn term and this is a good way to but your textbooks

Useful Resources:

Previously, the Department has managed to secure a textbook pack that includes these three core textbooks at a discounted price (however, online bookstores meet these discounts). However, Imperial's libraries stock around 20 copies and have a copy in the Core Textbooks section (cannot be borrowed) of each of these:

1. Organic Chemistry 2nd ed. Clayden et al
2. Inorganic Chemistry 5th ed. Atkins et al
3. Atkins’ Physical Chemistry 9th ed. Atkins & de Paula

It would be valuable to use the extensive array of textbooks available in the library BEFORE purchasing any books as you might find other books you prefer.
Building key

1 Beit Quadrangle
   Beit Hall, Chaplaincy, Imperial College Union
2 Imperial College Union
3 Ethos Sports Centre
   Sport Imperial
4 Prince's Gardens, North Side
   No.8: Early Years Education Centre
   No.10–12: Garden Hall
   No.15: Institute for Global Health Innovation
5 Weeks Hall
6 Blackett Laboratory
   Physics, Cell and Molecular Biology
7 Roderic Hill Building
   Aeronautics, Biology, Composites Centre, Chemical Engineering
   and Chemical Technology, Centre for Process Systems Engineering
8 Bone Building
   Aeronautics, Chemical Engineering and Chemical Technology
9 Royal School of Mines
   Earth Science and Engineering, Materials
10 Aston Webb
   Earth Science and Engineering, Materials, Institute for Security
   Science and Technology, Institute of Shock Physics
11 Bessemer Building
   Bioengineering, Imperial Incubator, Institute of Biomedical
   Engineering, Institute for Systems and Synthetic Biology
12 Goldsmiths Building
   Bioengineering, Earth Science and Engineering, Materials
13 Huxley Building
   Computing, Mathematics, Physics
14 ACE Extension
   Aeronautics, Chemical Engineering and Chemical Technology
15 William Penney Laboratory
   London e-Science Centre
16 Electrical Engineering Building
   Electrical and Electronic Engineering, Energy Futures Lab
17 Business School
   Centre for Quantitative Finance, Innovation Studies Centre,
   Entrepreneurship Centre, Centre for Health Management
18 53 Prince's Gate
   Institute for Mathematical Sciences
19 Eastside
   Gabor Hall, Linstead Hall, Wilkinson Hall, Eastside bar and
   restaurant, Essentials convenience store
20 Sherfield Building
   Level 1: Bank (NatWest), Catering, International Office,
   Queen's Tower Rooms, Security Reception
   Level 2: Bank (Santander), Great Hall, Junior Common Room,
   Newsagent, Optician, QT snack bar, Senior Common
   Room, Union Shop
   Level 3: Academic Visitors' Accommodation, Conference
   Office, Finance, Graduate Schools, HR Pensions,
   Human Resources, Humanities, Outreach, Registry,
   Learning and Development Centre, Sport Imperial
   management, Student Accommodation Centre, Student Hub
21 Grantham Institute for Climate Change
22 Faculty Building
   Academic Health Science Centre (AHSC), Central Secretariat,
   Communications and Development, Corporate Partnerships,
   Facilities of Engineering, Medicine and Natural Sciences
   administration, Finance, Human Resources, Rector's Office,
   Research Services, Strategy and Planning
23 58 Prince's Gate
   Ballroom, Billiard Room, Boardroom, College Room, Garden
   Room, Oak Room, Imperial Consultants, UK Energy Research
   Centre
24 170 Queen's Gate
   Council Room, Dining Room and Solar
25 Imperial College and Science Museum Libraries
   Central Library, Humanities, Centre for the History of Science,
   Technology and Medicine, Library Archives and Special
   Collections, Science Museum Library
26 Queen's Tower
27 Skempton Building
   Civil and Environmental Engineering, Centre for Environmental
   Control and Waste Management, Reach Out Lab, Centre for
   Transport Studies
28 Mechanical Engineering Building
   Business School, ICT, Mechanical Engineering, Centre for
   Environmental Technology, Vibration University Technology
   Centre
29 Southside
   Falmouth Keogh Hall, Selkirk Hall, Tizard Hall, Health Centre,
   Dentist
30 Wolfson Building
   Biology, Cell and Molecular Biology, Molecular Biosciences,
   Centre for Bioinformatics, Centre for Biomolecular Electron
   Microscopy, Glycobiology Training, Research and Infrastructure
   Centre, Centre for Structural Biology
31 Flowers Building
   Cell and Molecular Biology, Chemistry, Centre for Molecular
   Microbiology and Infection,
32 Chemistry Building
   Chemistry
33 Sir Alexander Fleming Building
   Medicine, Biology, Biomedical Sciences, Cell and Molecular
   Biology, Molecular Biosciences, Advanced Biotechnology
   Centre, Centre for Chronobiology
34 Chemistry RCS1
   Biochemistry, Biology, Centre for Photomolecular Sciences,
   Chemistry
35 52 Prince's Gate
   Imperial Innovations

Student Handbook 2018 | To find out
more visit www.imperial.ac.uk/chemistry
Frequently asked Questions—
Who do I go to for help if.......?

With so many support services, it can be difficult to identify who best to consult, however the list below should help you to find help. In most cases, your personal- al tutor can help you identify support, but in other cases it is possible to find support directly yourself. Whilst your personal tutor is listed as the first person to discuss things with, you are of course free to discuss your needs with any staff member you feel most happy to do so.

I have an issue with a Computer / IT issue (related to campus systems or related software)?
The ICT Helpdesk on Level 4 Sherfield can help with most issues. Their website is http://www.imperial.ac.uk/admin-services/ict/ - problems can be logged online.

I would like to receive further language support?
Your personal tutor can help you identify any concerns with your lan- guage skills, and may refer you to the Centre for Academic English: http://www.imperial.ac.uk/academic-english. You may also sign up to courses they run without referral from your personal tutor.

I would like to receive further Disability Support?
The Senior tutor, together with the Department Disability Officer (Prof. Michael Bearpark, m.bearpark@imperial.ac.uk), will help you to identify your support needs. This will involve the College Disability Advice service, which is led by Mary Bown (disabilities@imperial.ac.uk), and depending on your needs funding may be available.

I would like to receive further support for my Learning Difficulties?
Your personal tutor may identify any issues you may have, but this will be referred to the Senior Tutor, (Prof. Rob Law, rlaw@imperial.ac.uk) and the Department Disability Officer (Prof. Michael Bearpark, m.bearpark@imperial.ac.uk). We will then work with the College Disability Advice service to identify your needs and provide support where available.

I have health issues that are interfering with studies (body or mind)?
You should alert your Personal Tutor as soon as you can; this will be discussed with the Senior Tutor to help assess the likely impact on your studies. All stu- dents should make sure that they are registered with a Doctor either at the Campus Health Centre (if living in campus accommodation/in the catchment area) or near their home. Contact the Health Centre via: www.imperialcollegehealthcentre.co.uk/ and phone: 020 7584 6301. There is also a Dental Clinic on campus—call 020 7589 6623 for information.

I have been, or plan to be, absent from college?
If you are absent for one or two days, you can self-certify your ab- sence. For three or more days you must inform your Personal Tutor, and for more than a week you must inform the Senior Tutor, (Prof. Rob Law, rlaw@imperial.ac.uk). Where this interferes with assessment you must complete the appropriate Mitigating Circumstances form (see “Mitigating Circumstances”).
Frequently asked Questions—
Who do I go to for help if.......?

I have financial troubles?
Your Personal Tutor can help you identify sources of funding and can direct you to Student Financial Support office, http://www.imperial.ac.uk/fees-and-funding/ for assistance. There are hardship grants and hardship loans available depending on your circumstances. The Senior Tutor can also help direct you appropriately, particularly if issues are severe.

I have an issue with my accommodation?
Your personal tutor can discuss issues with you to help you find avenues of support and refer you to the Accommodation Office. The Senior Tutor can also help identify the likely affect on your work.

I am experiencing some social problems?
Who to approach: Your Personal Tutor can discuss your concerns, as well as the Senior Tutor, and both can help you to find possible solutions.

I have troubles at home/with my family?
Your Personal Tutor can discuss your concerns with you, as well as the Senior Tutor. If the issues are likely to interfere with your work, the Senior Tutor can help to identify possible routes of support.

I am finding university life stressful?
Your Personal Tutor can discuss your concerns, as well as the Senior Tutor, and both can help you to find possible solutions. In some circumstances we may direct you to the Student Counselling Service for support, however we cannot make a referral to this – you must make your own appointment when you are ready to discuss with a counsellor. http://www.imperial.ac.uk/counselling/ contact them via email for appointments: counselling@imperial.ac.uk

I am struggling with my study skills (Exams, Lectures, writing reports)?
Your Personal Tutor can help you identify your needs and can work with you to improve your study skills. They will make use of the Imperial Study Guide to help you identify how best to improve your study skills (http://www.imperial.ac.uk/students/success-guide/)

I have concerns about the course?
If there are any potential concerns with your course of study, be it content, difficulty or structure of deadlines and/or workload, the Student Experience Officer, Amelia Barron, (amelia.barron@imperial.ac.uk) is happy to discuss the concerns with you. There are regular ‘focus group’ meetings (with lunch provided) to which you are encouraged to attend to discuss these issues, as well as your Student Reps and Departmental Representative, Lorenz Hoffman (Lorenz.hoffman1.5@imperial.ac.uk).

I need a reference…?
Your Personal Tutor is your primary reference, so you should make sure that they know you well enough to write a reference for you. You should always ask them for a reference, and include an up-to-date CV together with the description of the position for which you are applying (preferably the advertisement). A secondary reference can be requested from the Senior Tutor or Director of Studies if necessary.

Finally and really just as a reminder……if in doubt ask……we are here to help but can only do so if you let us know what you need help with.