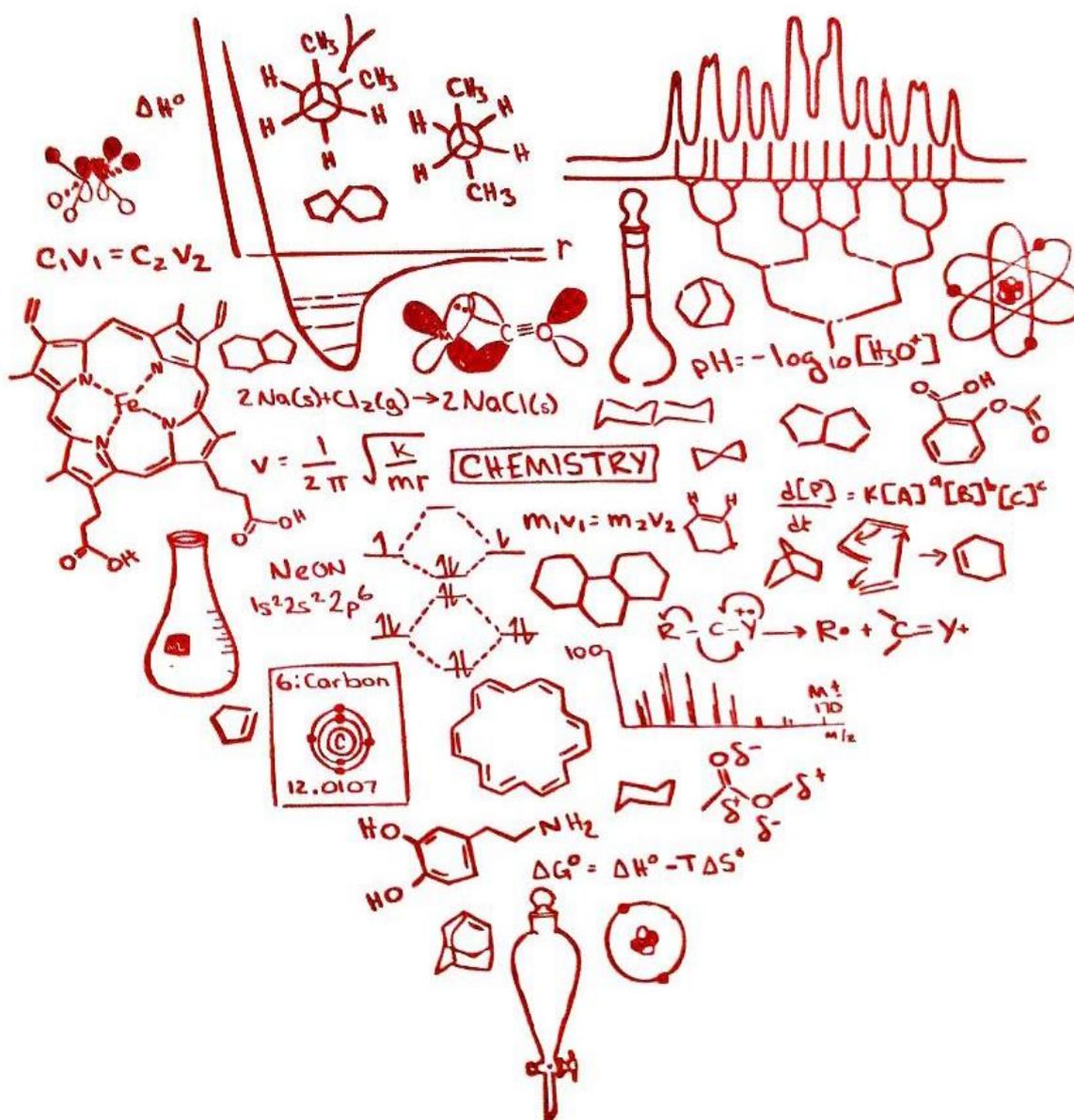


Imperial College London

CHEMISTRY DEPARTMENT

Welcome Handbook 2017-18



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. There are also Facebook groups, an [Imperial College Chemistry Freshers 2017](#) as well as an [Imperial College London Freshers 2017 \(official\)](#) facebook page for the 2017 intake.

This Welcome Booklet was first compiled by June Gan over the summer of 2013 at the end of year 2 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 2017. We hope you find it useful; if there are any questions or suggestions for further improvements then please just let us know by emailing Raj Sandhu at r.sandhu@imperial.ac.uk

Useful Info:

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

Please use the following email address for all enquiries i.e. timetable, programme transfers, general queries:

chemugadmin@imperial.ac.uk

Other contact details:

Name	Position	Email	Telephone
Amelia Barron	Student Experience Officer	amelia.barron@imperial.ac.uk	020 7594 1043
Prof. Mike Bearpark	Disabilities Liaison officer	m.bearpark@imperial.ac.uk	020 7594 5727
Prof. Don Craig	Acting Director of UG studies	d.craig@imperial.ac.uk	020 7594 5771
Dr Silvia Diez-Gonzalez	Year 1 Tutor	s.diez-gonzalez@imperial.ac.uk	020 7594 9699
tbc	Year 1 Tutor	tbc	
Prof. Rob Law	Senior Tutor	r.law@imperial.ac.uk	020 7594 5860

Term dates:

- **Autumn Term:** Saturday 30 September to Friday 15 December 2017
- **Spring Term:** Saturday 6 January to Friday 23 March 2018
- **Summer Term:** Saturday 28 April to Friday 29 June 2018

We look forward to seeing you in the Department on Monday 2 October 2017.

Provisional Term Dates for academic year 2018/19 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 4th September 2017 (please see page 8 for more details). You will be able to access to use your College ID to get 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.

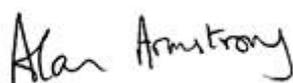
We pride ourselves at Imperial College on being welcoming to anyone who has a passion to study Chemistry. We do not judge people on where they come from, the colour of their skin, who they are or what they believe. We expect you to remember this as you meet with your colleagues and all staff in the Department. 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,



Alan
Head of Chemistry



Welcome to Chemistry from your DUGS

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 newly-appointed 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 DUGS

Welcome to Chemistry from your SEO

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

Meet your Dep Rep

Welcome to Imperial Chemistry Department and congratulations for officially becoming a student at Imperial College.

My name is Kate and I will be your Departmental Representative for this coming year. My role this year is to represent and voice your concerns, opinions and ideas to the staff (and vice versa), along with your soon-to-be-elected year Representatives. I am currently in my 4th and final year at Imperial, and I have accumulated a number of tips and tricks for life at Imperial and in London.



The main difference between school and university is that here you will be much more independent. Becoming independent may take some time and it may be easier for some than others - but remember everyone is going through it and you will get there eventually! For some it may be a bit scary and messy at first, but trust me it's **one of the most fun parts of being at university!**

One of the most important tips is: **Enjoy your first year!**

Whilst classes are important and you don't want to fall behind (as each year builds on the knowledge from the year before) stressing too much over coursework/exams will do you no good. First year accounts for ~10% of your degree thus there is no point of stressing over it. Instead use this time to adjust to university life in terms of studying, living away from home, managing your own time/money/energy.

In terms of the non-academic side of Imperial - **take advantage of Imperial College Union!**

There are over 340 clubs and societies and they are one of the best way to meet people with common interests other than chemistry. From sports to arts and from volunteering to cultural societies, there is something for everyone. Societies are super fun and they also help you take a break from studying and ensure a healthy work-life balance.

Explore London!

If you feel stressed, home-sick or just plain bored (the latter would surprise me but Imperial is full of surprises) get on a bus and go explore London. Museums; cat cafes; every type of cuisine; theatres and musicals; sports; bars. In London you can find anything!! I've been here for 3 years and I still feel like I have only seen a glimpse of London despite the endless walks in random streets from Camden to Uxbridge.

Last but not least, **meet as many people as possible!**

Everybody within and outside of the department is a great source of knowledge and inspiration and will often be able to help you out better than any textbook can.

If there is anything more that you would like to know about life at university, your academic career or anything else, please feel free to contact me any time.

I am looking forward to meeting you all!

Kate Stavri

katerina.stavri14@imperial.ac.uk

Meet your ChemSoc President

Welcome to Imperial!

After surviving the trauma of filling out your UCAS applications - stressing out over every little detail of your personal statement - and after experiencing the recurring nightmares about final exam results, you are about to begin your journey within the best department of a world-class university. Congratulations!

I'm Billy, your ChemSoc president this year, and I head the committee that will be organising social, careers and academic events to welcome you into our Chemistry community. We'll 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.



University will be different from school and living with your parents, and that's part of the fun! We're 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 (and yes, beyond Central Library as well), so whether you want to join a sports team, host your own radio show, build a rocket or fly a plane (yes, those are all real clubs and societies within the Union!), 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 page (<https://www.facebook.com/ImperialChemSoc/>), and you can find helpful links and information about our sponsors on our website (<https://union.ic.ac.uk/rcsu/chemsoc/>). All that's left for me to say is that I look forward to seeing you on your first day, and if you have any questions or suggestions please drop me an email at william.micou15@imperial.ac.uk.

Billy Micou

ChemSoc President



URL: <https://union.ic.ac.uk/rcsu/chemsoc/index.htm>

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 details on our new website (<https://union.ic.ac.uk/rcsu/chemsoc/>).



"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, which this year will be taking place at the Millennium Gloucester Hotel. We've got a room booked for 300 guests, so it's going to be big! We'll 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/>

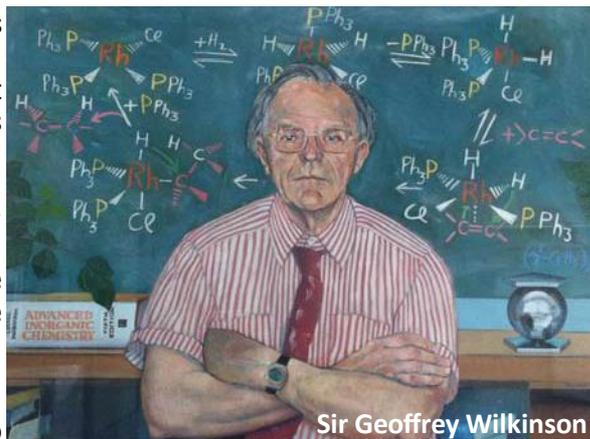
in recognition of the high quality of the education the Department provides.

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:

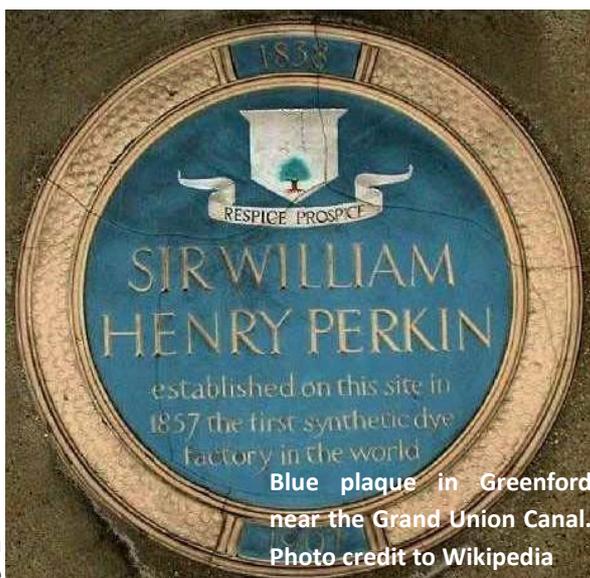
<http://www.imperial.ac.uk/chemistry/research/>

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!



Sir Geoffrey Wilkinson



RCS Building

Before you arrive

Another year has passed and we are busily preparing for a new intake of students. The academic year begins on Monday 2 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/studenteservice

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.



The Mingle is the Union's official fresher's welcome party.

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.

	Students in Halls of Residence	Students in Private Accommodation
Photo uploaded, arriving in week 1	Receive CID on move-in day	CID will be sent to your department for distribution
No photo, arriving in week 1	Bring Registration Confirmation to Security and have your photo taken. CID sent to your department for distribution	Bring Registration Confirmation page to Security and have your photo taken. CID sent to your department for distribution
No photo, arriving after week 1	Bring Registration Confirmation to Security and have your photo taken to obtain your CID	Bring Registration Confirmation page to Security and have your photo taken to obtain your CID

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):

Lecture Module Code	Lecture Module Name	Lecture Module Topic	Name of Lecturer
CHEM40001	Introduction to Chemistry	Alkanes, Alkenes, Alkynes	Dr. Jochen Brandt (JRB)
CHEM40001	Introduction to Chemistry	Atomic Structure	Dr. Andy Ashley (AEA)
CHEM40001	Introduction to Chemistry	Quantum Chemistry (Models)	Dr. Paul Wilde (CPW)
CHEM40001	Introduction to Chemistry	Solvents & Solvent Effects	Prof. Tom Welton (TW)
CHEM40001	Introduction to Chemistry	Spectroscopy	Dr. Marina Kuimova (MK)
CHEM40001	Introduction to Chemistry	Spectroscopy and Characterisation	Dr. Phil Miller (PM)
CHEM40001	Introduction to Chemistry	Stereochemistry	Dr. Matt Fuchter (MJF)
CHEM40001	Introduction to Chemistry	Structure Mechanism and Reactivity	Prof. Alan Armstrong (AA)
CHEM40005	Chemistry Coursework 1	Measurement Science 1 (lecture course to support the measurement science 1 lab)	Prof. John de Mello (JdM)

Sample Timetable

Imperial College London

CH YR1 (MPC) A3

Things to note:

- 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.
- There are also academic tutorials (inorganic, organic and physical) which will appear in the timetable at a rate of 2 tutorials per lecture course.
- There is also a separate lab timetable – your labs will run on Monday, Tuesday, Thursday and Friday **mornings** in the first instance for 3 out of 4 days. It is a personalised timetable.
- We do not teach on Saturday or Sunday.
- 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 space, computer rooms, café as well as the library close by is available for group work.

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

A problem class for stereochemistry

We run a lecture course where industry comes in to speak about their sector – it is great way to learn about different companies!

A reminder to make an appoint to see your personal tutor this week

As a reminder horizons slots sit in your timetable whether you intend to take a Horizons course or not.

Time	Mon, 28 November 2016	Tue, 29 November 2016	Wed, 30 November 2016	Thu, 1 December 2016	Fri, 2 December 2016	Sat, 3 December 2016	Sun, 4 December 2016
8:00	Catch-up with your personal tutor (All Weeks) Chemistry Key Dates CH YR1						
9:00	A lecture for the spectroscopy topic of the introduction to chemistry module – gives the location and lecturer						
10:00							
11:00			Maths and Physics for Chemists 1 (MPC1) 101 - Lecture Theatre C Jacobs, Roy L CH YR1 (MPC) Lecture				
12:00		Industrial Applications of Chemistry (Workshop 4) RCS1 203 - Lecture Theatre D Bittowek, George J P CH YR1:CH 19:2:CH 19:3:CH 19:4					
13:00	Spectroscopy Introduction to Chemistry SHER 569 - Pippard Lecture Theatre:SALC Sheffield - Room 10 (ICSM 5502) KJug, David R						
14:00		Spectroscopy and Characterisation Introduction to Chemistry SHER 569 - Pippard Lecture Theatre:SALC Sheffield - Room 10 (ICSM 5502) Bittowek, George J P					
15:00	Maths and Physics for Chemists 1 Maths and Physics for Chemists 1 RCS1 101 - Lecture Theatre C Jacobs, Roy L CH YR1 (MPC) Lecture	Alkanes, Alkenes, Alkynes Introduction to Chemistry SHER 569 - Pippard Lecture Theatre:SALC Sheffield - Room 10 (ICSM 5502) Mountford, David M					
16:00	Alkanes, Alkenes, Alkynes Introduction to Chemistry SHER 569 - Pippard Lecture Theatre:SALC Sheffield - Room 10 (ICSM 5502) Mountford, David M	See Horizons for Year 1 Timetable Imperial Horizons Course: Chemistry with Research Abroad or with French / German / Spanish for Science SHER 569 - Pippard Lecture Theatre:CHEN 259:OEH 237A - Meeting Room A:OEH 237B - Meeting Room Staff to be confirmed CH YR1 For Information Only					
17:00							
18:00							
19:00							
20:00							

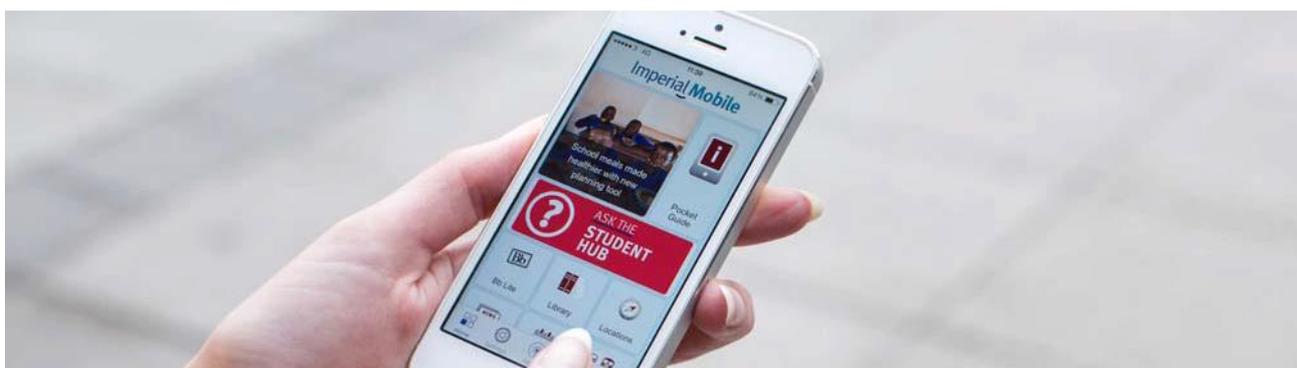
Imperial Mobile

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 Coordinator: Dr David Mountford (d.mountford@imperial.ac.uk) if you have any queries.

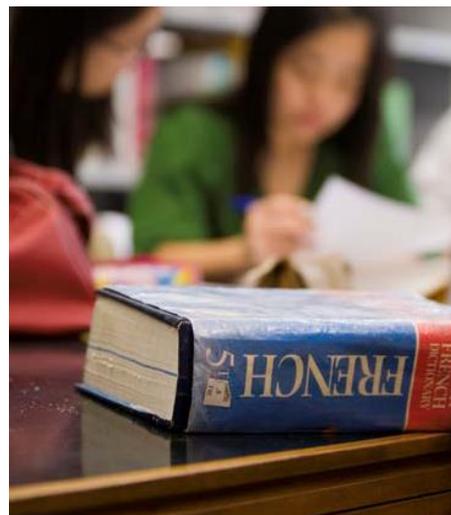
STUDENTS SAY I thought all the modules were taught well. They were all interesting, although you shouldn't underestimate how much there is to learn! It's fine though, I just started revising earlier.

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)..”

STUDENTS SAY The Spanish course was varied and interesting. It helped to complement my Science studies but also gave me diversity as I had the opportunity to study some Spanish literature, history and politics.

STUDENTS SAY There's a lot of content delivered very quickly in MPC, but the exam questions were so much easier than the ones in the problem sheets. If you have an interest in this area then this is definitely worthwhile; it also makes the physical chemistry courses far easier.

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.

What is Imperial Horizons?



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 and Global Citizenship

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: 16.00-18.00 on Tuesdays
 Second Years: 16.00-18.00 on Mondays
 Third and Fourth Years: 16.00-18.00 Thursdays

Do you have further questions about the Imperial Horizons Course options for 2017-18?

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

When: Monday 9 October 2017 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 3 October.

Register your course preferences on the Imperial Horizons website during Welcome Week, before the deadline of midnight **on Monday, 9 October 2017.**

	Enrolment opens	Enrolment closes	Allocations confirmed
Incoming 1st years 2017-18	Monday 4 September	Monday 9 October	Friday 20 October

To find our more, visit our website: www.imperial.ac.uk/horizons

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:

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

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 textbooks (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.

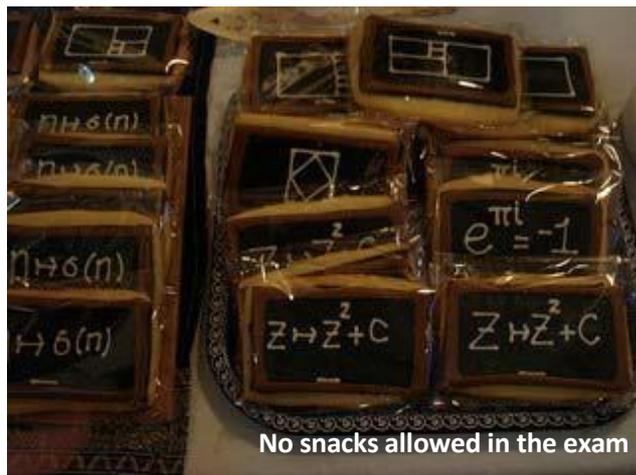
Dr. Paul Wilde

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



No snacks allowed in the exam

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 3.20438×10^{-19} J! or that the bond length of the OH bond in water is about 1Å 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, μ m, nm, Å, pm.

Areas and volumes based on the length units cited above.

Energy: Joules (J), calories (cal), electron-volts (eV).

Temperature: Celsius ($^{\circ}$ C), Fahrenheit ($^{\circ}$ F), Kelvin (K).

Pressure: atmospheres (atm), Pascals (P), bar, torr.

Speed: m/s, cm/s, km/h, miles/h.

Conversion between moles and number of molecules.

Conversion between 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^x 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)

$$\begin{aligned} a^x \times a^y &= a^{(x+y)}; \\ a^x \div a^y &= a^{(x-y)}; \\ (a^x)^y &= a^{(xy)} \end{aligned}$$

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. $f(x) = A \sin(kx)$; $f(x) = A \cos(kx)$; $f(x) = A \sin^n(kx)$; $f(x) = A \cos^n(kx)$)

Using the chain rule $(dy/dx) = (dy/du) \times (du/dx)$ Using

the product rule $d(u \times v) = u(dv/dx) + v(du/dx)$

Using the quotient rule $(dy/dx) = [v(du/dx) - u(dv/dx)]/v^2$

Integration:

· Power functions (e.g. $dy/dx = ax^{n+1}$)

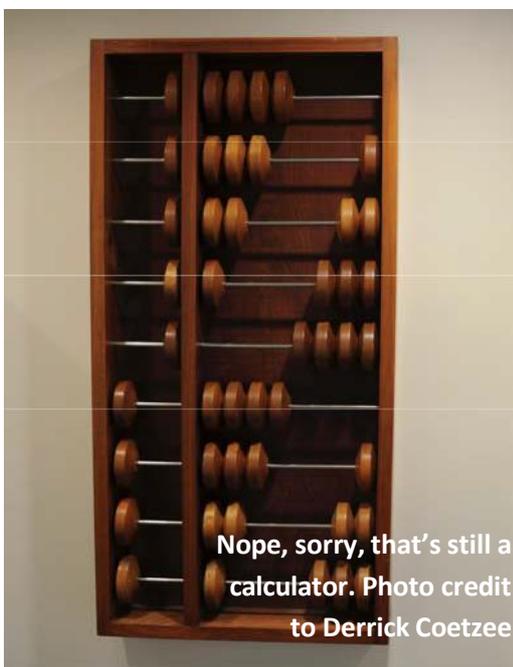
· Logarithmic, exponential, sin and co-sine functions

· 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 1×10^{-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.

DAY	TIME and VENUE	EVENT	COMMENTS
Monday 2 October	09.30 – 10.30 Chemistry Common room	Welcome by Prof. Don Craig (Acting Director of UG Studies) and Amelia Barron (Student Experience Officer) Collection of Induction folders	Surnames A—M please arrive at 09.30 (and no later than 09.45) Surnames N—Z please arrive at 10.00 (and not before)
	10.30 – 11.30 TBC	ChemSoc Presentation	
	12.00 – 13.00 Chemistry Common Room	ChemSoc lunch	
	14.00 – 15.00 Great Hall (overflow Pippard/Read lecture theatres)	Provost's Welcome To UG Natural Sciences 1 (Life Sciences, Chemistry)	
	13.00 – 14.00 & 15.00 – 17.00 Venues to be confirmed	ChemSoc Treasure Hunt / Library Induction / Meet Don Craig (acting DUGS), Amelia Barron (SEO), Rob Law (senior tutor) and year tutor Silvia Diez-Gonzalez.	13.00: Group A – ChemSoc Treasure Hunt Group B – Library Induction Group C—“Meet Don et al” 15.00: Group A – “Meet Don et al” Group B - ChemSoc Treasure Hunt Group C—Library Induction 16.00 Group A—Library Induction Group B—“Meet Don et al” Group C— ChemSoc Treasure Hunt
Tuesday 3 October	ALL DAY Great Hall, Sherfield, Beit Quad	Student Union Freshers' Fair	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
	16:00 Pippard lecture theatre, Sherfield	Language talks	For those students taking joint honour with language programmes

DAY	TIME and VENUE	EVENT	COMMENTS
	18.00–20.30 SAFB G34, level 1		ChemSoc Seminar and reception
Wednesday 4 th October	9.00 – 10.30 Venue to be confirmed	Introduction to your department OR maths diagnostic test	The welcome pack you collect on Monday will tell you which session you must attend (1 or 2)
	10.30 – 12.00 Venue to be confirmed	Introduction to your department OR maths diagnostic test	The welcome pack you collect on Monday will tell you which session you must attend (1 or 2)
	12.00 onwards	Sports Trials	You are free from noon on Wednesday in order to attend any Sports trials that you wish
Thursday 5 October	9.00 – 10.00 Pippard Lecture Theatre	General Safety Lecture 1	This is a compulsory part of your induction week – attendance will be monitored (The welcome pack you collect on Monday will tell you which session you must attend 1 or 2)
	11.00 – 12.00 Pippard Lecture Theatre	General Safety Lecture 2	This is a compulsory part of your induction week – attendance will be monitored (The welcome pack you collect on Monday will tell you which session you must attend 1 or 2)
	12.00 – 14.00 TBC	Lunch and University Research Opportunity Programme Poster Session (UROP)	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.
	14.00 – 15.00 Venues to be confirmed		Group A – Introduction to Blackboard VLE Group B – PPE collection Group C – Break
	15.00 – 16.00 Venues to be confirmed		Group A – Break Group B - Introduction to Blackboard VLE Group C – PPE collection
	16.00 – 17.00 Venues to be confirmed		Group A – PPE collection Group B – Break Group C - Introduction to Blackboard VLE
Friday 6 October	09.00 – 13.00 Venue to be confirmed	Introduction to UG labs Python programming Measurement science Introduction to Synthesis, basic lab safety	
	14.00 – 15.00 Venue to be confirmed	Welcome Talk Head of Department: Prof. A Armstrong,	
	15.00 – 16.00 Chemistry Common room	Meet your personal tutor	

Welfare and support



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, bereave-

ments etc. If these circumstances affect your academic performance, you must **tell us immediately**.

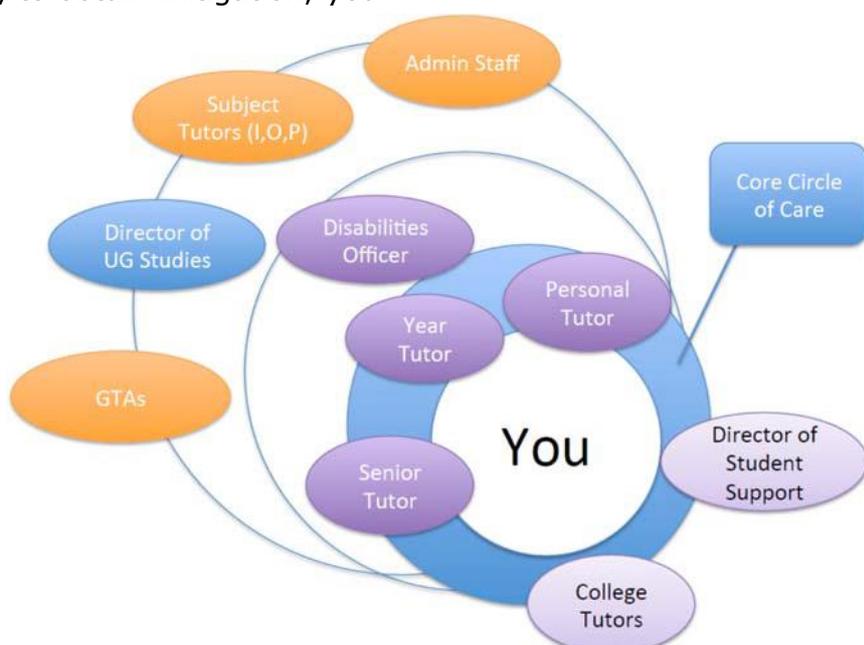
If things go wrong, our role is to

- direct or signpost you to the appropriate help
- 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 **Dr Silvia Diez-Gonzalez** and another colleague (to be confirmed), 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 new SEO Amelia!

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 Dr Silvia Diez-Gonzalez and another colleague (tbc). 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!

One of your year 1 Year Tutors Dr Silvia Diez-Gonzalez



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.

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.

Wardens

The Wardening teams in halls are responsible for all hall residents. They ensure that the hall environment is conducive to study and organise activities like barbecues and theatre trips in London's West End.

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.

Tutors

In addition to the Senior Tutor (Rob) and your personal tutor, (who will be assigned to you also can also 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)

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.

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.

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:

<http://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.

Extra Time:

URL:

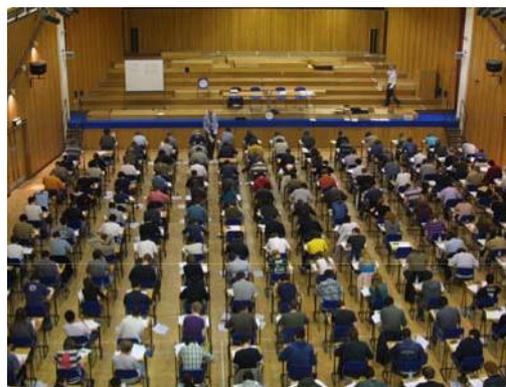
<http://www.imperial.ac.uk/student-records-and-data/for-current-students/undergraduate-and-taught-postgraduate/exams-assessments-and-regulations/additional-exam-arrangements-in-respect-of-disability/>

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](#) to arrange an appointment.



Further information for International Students

URL: <http://www.imperial.ac.uk/study/international-students/>

Email: international@imperial.ac.uk

Orientation

URL: <https://www.joomag.com/magazine/arrival-guide/0069364001470834439?short>

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/>

INFO BITE You can get an Oyster card (stored-value travel card) from the information booth at any tube station for a £5 deposit. Using your Oyster is the cheapest way to travel by tube, bus or tram, and is a must-have for London living.



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.

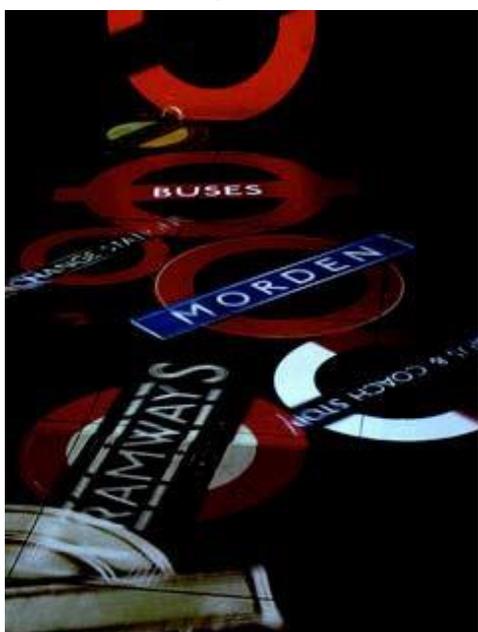
Tube

URL: <https://tfl.gov.uk/>

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!

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.



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

URL: <http://www.imperial.ac.uk/food-and-drink/>

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.**

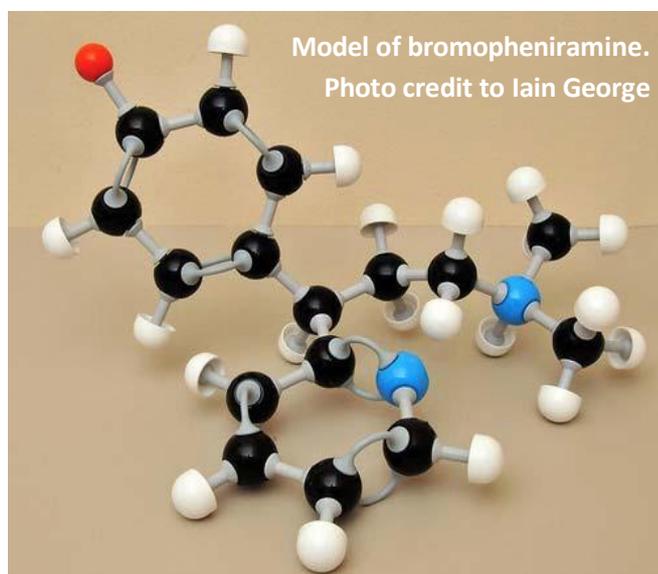
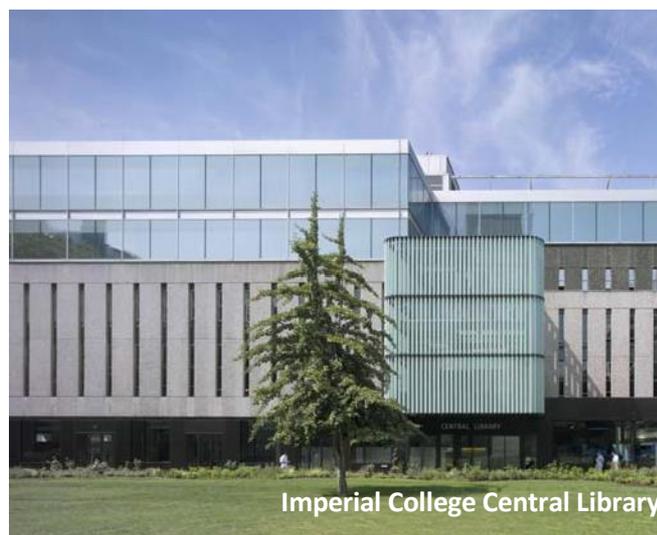
The Hub can also provide important documents such as bank letters, transcripts and statements of attendance, which can be used as supporting evidence when opening a bank account or applying for travel visas. As the first weeks of term are some of the busiest, it is highly advisable to pre-order the documents 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.



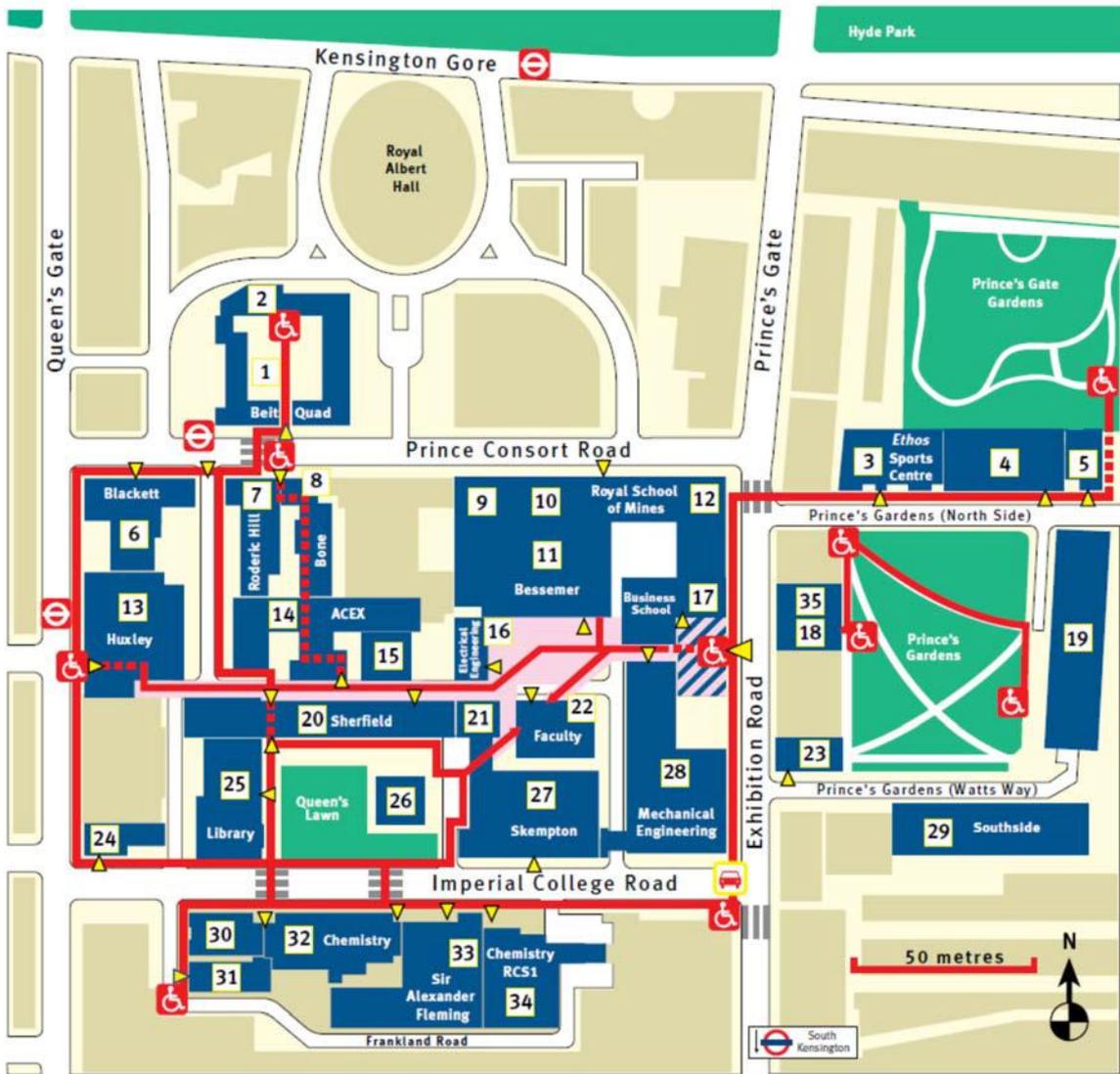
INFO BITE ChemSoc run a used book and modelling kit sale usually in week 3 of the autumn term and this is a good way to buy your textbooks

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.* At-
kins & 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.



⊗ Buildings where wheelchair access is not possible at this time

1	Beit Quadrangle	11	Bessemer Building	20	Sherfield Building	27	Skempton Building
2	Imperial College Union	12	Goldsmiths Building		Student Hub	28	Mechanical Engineering Building
3	<i>Ethos</i> Sports Centre	13	Huxley Building		Conference Office	29	Southside
4	Prince's Gdns, North Side	14	ACE Extension	21	Grantham Institute for Climate Change	30	Wolfson Building
5	Garden Hall	15	William Penney Laboratory	22	Faculty Building	31	Flowers Building
6	Weeks Hall	16	Electrical Engineering	23	58 Prince's Gate	32	Chemistry Building
7	Blackett Laboratory	17	Business School	24	170 Queen's Gate	33	Sir Alexander Fleming Building
8	Roderic Hill Building	18	53 Prince's Gate	25	Imperial College and Science Museum Libraries	34	Chemistry RCS1
9	Bone Building	19	Eastside	26	Queen's Tower	35	52 Prince's Gate
10	Aston Webb						

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 Sheffield 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
- Level 4: Archives, ICT, ICT Helpdesk, Occupational Health Service
- Level 5: Building Projects, Blyth Music and Arts Centre, Careers Advisory Service, Centre for Educational Development, Communications and Development, Facilities Management, HR Equality, Property Management, Read and Pippard Lecture Theatres, Safety Department, Seminar and Learning Centre (SALC)
- 21 Grantham Institute for Climate Change**
- 22 Faculty Building**
Academic Health Science Centre (AHSC), Central Secretariat, Communications and Development, Corporate Partnerships, Faculties 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

Frequently asked Questions— Who do I go to help with.....?

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 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.

Problem: Computer / IT issue (related to campus systems)

Who to approach: 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.

Problem: Computer / IT issue (related to software)

Who to approach: Again, the ICT helpdesk should be able to help. You should log the support query via the website though to ensure the right person responds.

Problem: Language Support

Who to approach: Your personal tutor can help you identify any concerns with your language 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.

Problem: Disability Support

Who to approach: 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.

Problem: Learning Difficulties

Who to approach: Your personal tutor may identify any issues you may have, but this will be referred to the Senior Tutor, (Prof. Rob Law, r.law@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.

Problem: Health issues interfering with studies (body or mind)

Who to approach: 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 students 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.

Problem: Absence from college

Who to approach: If you are absent for one or two days, you can self-certify your absence. For three or more days you must inform your Personal Tutor, and for more than a week you must inform the Senior Tutor, (Dr. Rob Law, r.law@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 help with.....?

Problem: Financial troubles

Who to approach: 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.

Problem: Accommodation troubles

Who to approach: 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.

Problem: Social troubles

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.

Problem: Family troubles

Who to approach: 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.

Problem: Stress

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. 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

Problem: Study skills (Exams, Lectures, writing reports)

Who to approach: 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/>)

Problem: Course concerns

Who to approach: 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, Kate Stavri (katerina.stavri14@imperial.ac.uk).

Problem: I need a reference...

Who to approach: 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!