CHEMISTRY
Canterbury
Chemistry is central to understanding the world around us and Kent has world-leading research expertise across the breadth of this subject. Studying Chemistry at Kent allows you to gain advanced chemical knowledge and work towards addressing key societal challenges in areas such as human health, materials design and meeting the world’s increasing energy demands.
WHY STUDY CHEMISTRY AT KENT?

Professional accreditation
All of our Chemistry programmes are formally accredited by the Royal Society of Chemistry. This gives you, and potential employers, reassurance about the relevance and quality of your degree.

Academic support
University is different to school. You need to be self-motivated and well organised to succeed. We help you make the leap by assigning you an academic adviser and running a peer mentoring programme. You can also get help with academic skills, such as essay writing.

Excellent resources
The School has first-class facilities with state-of-the-art equipment and cutting-edge technology in our laboratories. Facilities on campus include the newly extended Templeman Library which has extensive print and electronic collections, and study spaces.

Inspirational teaching
You are taught by some of the best teachers in the country, several of whom have won teaching awards. We also have strong collaborative links with a number of industrial partners for our year in industry programme.

Work in industry for a year
Spending a year working in industry, you gain invaluable workplace experience and can also assess a particular career path to see if it is for you. This greatly enhances your CV and gives you the opportunity to apply your academic skills in a practical context.

World-leading research
You learn from leading experts. In the most recent Research Excellence Framework, 98% of our research in chemistry was judged to be of international quality, of which 78% was world-leading or internationally excellent.

International links
Join us, and you’ll be part of a thriving global scientific community. The School has collaborations with universities around the world and is a key player in several international research networks in Europe, North and South America, Africa, Asia and Australia.

Career success
Employability is a priority at Kent. By studying, you broaden your subject knowledge and sharpen the skills that are useful in working life. You have opportunities to gain work experience, and access to careers advice, workshops and employability events.

Lively campus
Kent is a campus university, so everything you need is within walking distance. You can watch a play or film at the Gulbenkian arts centre; dance at The Venue nightclub; keep fit at our sports centre and meet friends at one of many campus cafes and restaurants.
Destinations of Leavers from Higher Education (DLHE)
• Of Chemistry students who graduated from Kent in 2016, 91% of those who responded to a national survey were in work or further study within six months

Research Excellence Framework
• Kent was ranked in the top 20 for research intensity in the Times Higher Education, outperforming 11 of the 24 Russell Group universities

Teaching Excellence Framework
• Kent was awarded gold, the highest rating, in the UK government’s Teaching Excellence Framework*
Asad Saib is in his final year of study for an MChem.

Why did you choose Kent?
The way that Kent presented the subject and modules was different from other universities. Rather than laying it out in terms of organic, inorganic and physical chemistry, Kent uses different names such as Chemical Reactions, Molecules, Matter and Energy, Fundamental Organic Chemistry. This approach gives you more of a sense of what chemistry is actually for. I liked that idea, it seems a little ‘friendlier’.

Also, I have friends who studied at Kent; they said the campus was great and that they really enjoyed their time here.

What do you think of the campus?
It’s a very open campus, you have lovely views and green spaces. Everything you need is close, within walking distance, whether you need to do a bit of shopping at Essentials [the campus shop] or want to go to the Library. The Library has just undergone a major extension and refurbishment – it’s massive!

Also, you are really close to Canterbury itself, easily walkable from campus. The town is lively, not too big, and has everything you need or could want.

Was it easy to settle in when you arrived?
Moving away from home was a real change; meeting new people and gaining some independence. But everyone was so friendly that it was quite easy to make friends. The Fresher’s Fair really helped me to meet new people as I signed up for societies and met people with similar interests.

What are the facilities like for your course?
Everything is brand new, totally state-of-the-art. They have been renovating and upgrading and there are still plans for more. I didn’t realise how lucky we were to have these facilities until I spoke to students from other institutions. Literally within our first few weeks of being in the lab, we were able to use very expensive, cutting-edge equipment on a regular basis.

What about your lecturers?
The lecturers are really understanding. Even though we probably asked some very stupid questions during the first few weeks, they were very patient. Outside of lectures, if I had any questions, I’d just approach them and they would be able to help me.

What have you enjoyed most on your course?
I found the organic modules really interesting – starting from one molecule, you keep going until you make another and learn about the different conditions and mechanisms to get there. It also ties into a bit of what I am doing in terms of the synthetic Master’s project.

There were also some maths and physics parts to the program that I enjoyed. I found it interesting how chemistry can also branch into physics, biology and maths. So, I wasn’t just learning one subject, there was a bit of others as well. I think this is really useful as having a wide variety of background is important.

Did you apply for the MChem from the start?
I actually applied for the BSc, which is three years. Then I realised that I really liked it here and wanted to take this further, but wasn’t sure about committing to a PhD. Halfway through my second year I saw the MChem opportunity (giving me a Master’s as well) and I signed up straight away. As this counts as one degree, student finance covers the whole four years.

Any advice some somebody thinking of coming to Kent?
Apply to Kent; it’s definitely worth it. The staff are great, you will make friends quickly and you’ll learn a lot. And you can express yourself in what you want to do as well.
CHOOSING YOUR DEGREE

Not sure which programme to choose? Here’s a quick guide to the chemistry degree programmes we offer.

Chemistry
www.kent.ac.uk/ug/78
Our distinctive three-year programme covers fundamental chemistry and develops your knowledge at the forefront of the field with our ‘chemistry in context’ modules. In your third year, you undertake a lab-based research project.

Chemistry with a Year in Industry
www.kent.ac.uk/ug/83
This programme covers the same content as the three-year BSc (above) with the benefit of an industrial placement year between your second and final years, to gain professional experience and enhance employability. For more information, see p9.

Chemistry MChem
www.kent.ac.uk/ug/15
This four-year programme builds an advanced knowledge of contemporary chemistry; year-four modules provide a deeper insight, encouraging independent thinking. In your fourth year, you undertake an extended research project, which accounts for approximately 30% of the total marks for the MChem degree.

All three programmes prepare you for professional employment or further study.

Chemistry with a Foundation Year
www.kent.ac.uk/ug/388
This four-year BSc programme is for students who do not possess the formal entry requirements for a chemistry degree, or overseas students who require additional preparation in science, mathematics or English language. We also welcome students who have taken a career break and feel the need for a refresher course to increase confidence prior to tackling the degree course.

After successfully completing the foundation year, students can chose to progress on to any of our Chemistry programmes.

Need more information?
For details on all our programmes, see www.kent.ac.uk/ug

“I came to an Open Day and spoke to the lecturers in the School and they were so enthusiastic, more so than at other universities I’d visited.”

Robert Nash
Chemistry MChem
YEAR IN INDUSTRY

If you choose to follow a programme with a year in industry, this placement year is taken between Stages 2 and 3.

Finding a placement
Work placements are usually advertised nationally and students apply by sending in a CV or application form. We guide you through the process, giving you valuable feedback on the placements that are likely to enhance your career prospects, how to write a winning CV and how to hone your interview skills.

Salary and benefits
You usually work on placement for an entire calendar year. Salary and holiday entitlements vary according to the employer. However, many students find that they earn enough to be able to save some of their income and this often helps them in their final year at Kent.

Study and career benefits
A work placement provides practical experience that can be put to good use in your final year of study. It gives you a sense of how the theory works in practice and improves your skills in many areas. It also allows you to evaluate a particular career path, and gain knowledge of the working environment.

In general, the year in industry is very popular with employers, because of the skills you gain. If your placement is a success, you may even be offered a job with the same employer after graduation.

Keeping in touch with Kent
To make sure you get the most out of the experience, you are assigned an academic supervisor who approves the company’s programme of work in consultation with your industrial supervisor. At the end, you write a report of the work you did during the placement and, on returning to Kent for your final year of study, present a lecture on your experiences. Your year in industry counts towards your final degree classification.
YOUR STUDY PROGRAMME

Your studies are divided into three stages for the BSc programmes and four stages for the MChem. If you take a year in industry you do this between Stages 2 and 3.

Teaching and assessment
Laboratory classes emphasise different aspects of the subject and are assessed by written reports. Problem-solving seminars also play an important role in our teaching, usually integrated within lecture programmes. Assessment is by examinations and coursework, typically coursework marks account for 30% of your overall degree classification. See www.kent.ac.uk/ug for details of assessment methods for individual modules. You must pass all modules in Stage 1 to go on to Stage 2. Marks from Stage 2 and 3 count towards your final degree result, as does the year in industry if taken.

Stage 1 assessments do not contribute to the final degree classification, but all Stage 2 and 3 assessments do. For details of assessment methods for individual modules, see www.kent.ac.uk/ug

Module information
The module lists below are not fixed as new modules are always in development and choices are updated yearly. The following lists give an example of what you could study.

Please see www.kent.ac.uk/ug for the most up-to-date information.

To read a full description of the modules listed, go to: www.kent.ac.uk/courses/modules and search using the module code.

Stage 1
Your modules provide you with a broad base of knowledge on which chemistry is founded.

You take the following compulsory modules:
- Chemical Reactions (CH320)
- Chemical Skills (CH382)
- Computing Skills (PH302)
- Disasters (PH307)
- Fundamental Organic Chemistry for Physical Scientists (CH309)
- Introduction to Biochemistry and Drug Chemistry (CH314)
- Molecules, Matter and Energy (CH308).

Stage 2
You take the following compulsory modules:
- Chemical Identification Techniques (CH506)
- Inorganic and Environmental Chemistry (CH534)
- Materials and Solid State Chemistry (CH533)
- Numerical, Statistical and Analytical Skills (PS512)
- Organic Reaction Mechanisms (CH504)
- Polymeric and Organic Materials (CH530)
- Spectroscopy and Bonding (CH532)
- Thermodynamics and Kinetics (CH531).
Stage 3

If you are studying on our BSc programmes, Stage 3 is the final year of your degree; for MChem students, Stage 3 is the penultimate year of study.

All students take the following compulsory modules:
- Analytical Chemistry (CH604)
- Main Group and Organometallic Chemistry (CH623)
- Topics in Functional Materials (PS701)
- Topics in Inorganic Synthetic Chemistry (CH622)
- Transformations and Chirality in Organic Chemistry (CH624).

Optional modules; choose one of:
- DNA Analysis & Interpretation (PS637)
- Fires and Explosions (PS601).

BSc (only)
- Chemistry Research Project (CH620)

MChem (only)
- Advanced Project Laboratory (PS720)

Stage 4 (MChem only)

You take the following compulsory modules:
- MChem Research Project (CH740)
- Advanced Concepts in Physical and Inorganic Chemistry (CH742)
- Computational Chemistry (CH741)
- Modern Molecular Synthesis (CH743).
We’ll support you throughout your time at Kent, from helping you adjust to university study to discussing module choices and essay topics with you.

**Academic adviser**
You are assigned an academic adviser in your first year, and they help you get the most from your degree programme. You meet with them regularly to discuss general academic issues or specific assignments. They will assist you in developing academic skills and refer you to other sources of help if you need it.

**Peer support**
The best advice often comes from people who’ve been in your situation. On our Academic Peer Mentoring scheme, first-year students can request to be matched with second- or third-year students on a similar degree programme.

Peer mentors will help you settle in to university life and find your feet. They can help you to discuss ideas and improve your study skills as you progress through your first year.

**Study skills advice**
Successful students take control of their own learning. Kent’s Student Learning Advisory Service (SLAS) can help you increase your competence and confidence and fulfil your potential. You can request a one-to-one appointment or attend workshops on a diverse range of topics from making the most of lectures to writing well and effective revision skills.

**Student support and wellbeing**
You might need extra help to get the most from university. If you have a medical condition, specific learning difficulty, mental health condition or disability, the Student Support and Wellbeing team is there to support you.

They are committed to improving access to learning for all students at Kent and can assist with many things, including:
- helping you with emotional, psychological or mental health issues
- applying for relevant funding to support you.

As a Chemistry student you also benefit from the School of Physical Sciences’ own student support team. You can arrange a meeting with our Student Support Adviser to discuss any pastoral, health or welfare issues.

Find out more at: www.kent.ac.uk/studentsupport

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DID YOU KNOW?
Kent won the Outstanding Support for Students award at the 2017 Times Higher Education (THE) Awards.
A SUCCESSFUL FUTURE

What do you hope to do once you have your degree? Whether you have a specific career path in mind or haven’t yet thought much beyond university, we can help you to plan for success in the future.

Build your CV
Your degree studies help you to develop skills such as thinking critically, expressing yourself clearly, solving problems and working independently and as part of a team. These transferable skills are valued by employers and will also be vital if you go on to further study.

At Kent, you have lots of other great opportunities to enhance your skills. For instance, you could:
- join a society or sports club (even better – get involved in running it)
- volunteer with a community
- work in a part-time job or take up a summer internship
- represent your fellow students as a student rep, or become a student ambassador
- learn a new language or skill with Study Plus.

Getting involved like this means that you can earn Employability Points, which you can exchange for employability rewards. The more points you earn, the more valuable the rewards: we work with local, national and international employers to offer internships, work experience and a range of other activities that prepare you for the world of work.

Experience work
Our programmes include the opportunity to spend a year in industry. Our students have successfully completed placements at world renowned employers such as EDF, Pfizer and GSK.

Find a great job
The chemical industry is central to the world economy, which means chemistry graduates have a wide range of employment options open to them. Kent science graduates have an excellent employment record with recent graduates going into areas including:
- research and development
- contract laboratories
- material and pharmaceutical industries
- the oil industry.

The School of Physical Sciences has its own Employability Officer who runs our Industrial Liaison Committee to build on our links with industry, both for our undergraduate programmes and our research initiatives.

The University has a friendly Careers and Employability Service which can give you advice on how to apply for jobs, write a good CV and perform well in interviews.

Our track record speaks for itself: just six months after graduating in 2016, more than 96% of Kent graduates who responded to a national survey were in work or further study (DLHE, 2016).
Choosing a university is a big step, so it’s important to find out as much as you can before you make your decision. Come and visit us to see what we can offer you.

Open Days
Open Days are a great way to find out what life as a student at Kent is like. For instance, you can:
- learn more about the course you are interested in at a subject presentation
- ask questions – talk to the academic teams at the information stands
- take a tour of our state-of-the-art laboratories
- find out about student finance, other study opportunities and extracurricular activities such as Kent Sport.

Explore the campus at your own pace on the self-guided walking tour. You will be able to visit different types of accommodation, chat to current students and enjoy the stunning views over the city of Canterbury.

Open Days are held in the summer and autumn. Book your place at www.kent.ac.uk/opendays

Applicant Days
If you apply to Kent and we offer you a place (or ask you to come for an interview), you will usually be invited to an Applicant Day. Applicant Days run in the autumn and spring terms and are an opportunity to find out about the course in more detail. You spend time with your academic school meeting staff and current students, and take part in activities that give you a flavour of your prospective course and university life.

Informal visits
If you can’t make it to an Open Day or Applicant Day, you can still visit us. We run tours of the campus throughout the year.

If you live outside Europe, we appreciate that you might find it difficult to attend our scheduled events, so we can arrange a personal campus tour for you and your family.

Let us know you’re coming
Scheduled tours and personal campus tours (for international students) need to be booked in advance – you can do this via www.kent.ac.uk/informal
Meet us in your country
Our staff regularly travel overseas to meet with students who are interested in coming to Kent. We also have strong links with agents in your home country who can offer guidance and information on studying at Kent. Find out more at www.kent.ac.uk/courses/international

Self-guided tours
If you prefer to explore on your own, you can download a self-guided walking tour at www.kent.ac.uk/informal or pick up a copy from us.

A self-guided audio tour is available too, which allows you to learn about Kent without even leaving home. See www.kent.ac.uk/courses/visit/informal/audio-tour.html

Explore online
For the latest information on studying Chemistry at Kent, please see www.kent.ac.uk/physical-sciences/prospective/undergraduate/chemistry

Contact us
If you have any other enquiries about the course, please contact spsadmissions@kent.ac.uk

If you would like more information on Kent’s courses, facilities or services, please contact us on: T: +44 (0)1227 768896
www.kent.ac.uk/ug

Location
Canterbury

Award
BSc (Hons), MChem

Degree programmes
• Chemistry BSc (F107)
• Chemistry with a Foundation Year (F105)
• Chemistry with a Year in Industry (F108)
• Chemistry MChem (F109)

Typical offer levels
BSc programmes: BBB at A level; IB Diploma 34 points overall or 15 at Higher.
MChem programme: ABB at A level; IB Diploma 34 points overall or 16 at Higher.
Access and BTEC Level 3 Extended Diploma applicants are assessed on an individual basis, please contact us for more information.
Foundation Year: individual consideration but evidence of prior level 3 scientific study needed.

Required subjects
A level Chemistry grade B with a pass grade in the practical, plus GCSE Mathematics grade 4/C; IB Chemistry 5 at HL and Mathematics 4 at HL or SL.

Year in Industry
Students need to pass stage 1 with 60% to be competitive in applying for placement positions. See p9.

Professional accreditation
All of our Chemistry degree programmes are fully accredited by the Royal Society of Chemistry (RSC).

Foundation year
Passing all modules in the foundation year programme guarantees you entry on to one of our chemistry degree programmes.

Scholarships and bursaries
Please see www.kent.ac.uk/ugfunding for details of scholarships and bursaries.

Offer levels and entry requirements are subject to change. For the latest information, see: www.kent.ac.uk/ug

This brochure was produced in June 2018. The University of Kent makes every effort to ensure that the information contained in its publicity materials is fair and accurate and to provide educational services as described. However, the courses, services and other matters may be subject to change. For the most up-to-date information, see www.kent.ac.uk/ug and for full details of our terms and conditions, see www.kent.ac.uk/termsandconditions

For the University to operate efficiently, it needs to process information about you for administrative, academic and health and safety reasons. Any offer we make to you is subject to your consent to process such information and is a requirement in order for you to be registered as a student. All students must agree to abide by the University rules and regulations at: www.kent.ac.uk/regulations
COME AND VISIT US

To find out more about visiting the University, see our website:
www.kent.ac.uk/visit