Welcome to the School of Chemistry

I am delighted that you are considering studying chemistry at the University of Nottingham. I hope that you'll find this guide useful in selecting a course that's right for you.

The School of Chemistry at Nottingham is one of the leading chemistry departments* in the UK with an excellent reputation for both teaching and research. We continue to receive high student satisfaction scores in the National Student Survey (NSS) and the results of the latest Research Excellence Framework (REF), a national assessment of university research, judged 95% of our research activity to be ‘internationally excellent’ or ‘world-leading’.

We have dedicated staff who are committed to teaching and learning, and modern laboratories and teaching spaces. Above all, we have highly motivated and enthusiastic students. Whatever your ambitions, our aim is to help you achieve them here.

We hope to welcome you to Nottingham soon.

Professor Jonathan Hirst
Head of the School of Chemistry

To find out where a degree in chemistry could take you, please visit nottingham.ac.uk/chemistry

* In the 2016 National Student Survey 97% of MSci Chemistry students agree that the course is intellectually stimulating.
Studying chemistry at Nottingham

Chemistry is key to our understanding of the natural world and to the enhancement of our quality of life. Advances in chemistry provide the understanding that underpins much of modern science; an understanding that contributes directly to our everyday lives, from the food we eat and the medicines we take to the environment in which we live.

Our success as teachers of chemistry owes much to our ability to include ground-breaking research results in our teaching curriculum. You will be taught by researchers working at the forefront of chemical science, and you will have many opportunities to get involved with cutting-edge research through year four MSci projects.

We maintain an important balance: the small group teaching sizes are small enough for us to know all of our students as individuals and the total class size is large enough to allow us to offer a range of specialist options. This means that you will be able to tailor your degree to your scientific interests.

New teaching facilities include:
- Undergraduate laboratories
- An Engineering and Science Library

New research facilities include:
- The Centre for Sustainable Chemistry
- The Nanoscale and Microscale Research Centre
- The School of Chemistry Nuclear Magnetic Resonance Facility

**National Student Survey, 2016.

To find out where a degree in chemistry could take you, please visit nottingham.ac.uk/chemistry

For more information about studying chemistry visit nottingham.ac.uk/ugstudy/chemistry

How will I study?

The School of Chemistry offers a range of stimulating BSc and MSci degree courses with programmes that engage the enthusiasm of the staff and students for all aspects of chemistry.

Teaching
Your degree course is designed to feed your curiosity for chemistry, to encourage you to express your ideas clearly and logically and to develop your approach towards independent learning. We achieve this through a series of modules that broaden your previous knowledge, and introduce you to topics that you may not have encountered at school or college. The academic year is divided into two semesters and you will complete 120 credits of study per year. There are typically 10 lectures per week in addition to laboratory classes.

Small-group tutorials
You will also take part in a series of small-group tutorials that provide an opportunity for you to analyse and use the material that has been presented in lectures and laboratory classes. These meetings also ensure that you have grasped the key points of the lectures and that you fully understand the course material.

Laboratory experience
You will gain laboratory experience in hands-on practical modules that typically run for up to eight hours per week during the first year of your course, and which extend to 10 hours per week in the second and third years.

Research projects
During the fourth year, MSci students are invited to join an active research group within the school to contribute to projects at the cutting edge of chemistry. You will be given greater independence and will be responsible for driving your own project, although an academic member of staff directing your research group will always be available to help.

Personal tutors
You will be assigned a personal tutor who will support you through your studies and help you make the most of the opportunities available at Nottingham. Your personal tutor is your first port of call in the school and they will take an interest in your personal and academic development, offering you help, encouragement and guidance.

Accreditation
Details of the accreditation of our courses by the Royal Society of Chemistry can be found at nottingham.ac.uk/chemistry/studywithus
Our courses

<table>
<thead>
<tr>
<th>Degree title</th>
<th>UCAS code</th>
<th>Duration</th>
<th>A levels</th>
<th>IB</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc Chemistry*</td>
<td>F100</td>
<td>3 years</td>
<td>AAB-ABB</td>
<td>34-32</td>
</tr>
<tr>
<td>MSci Chemistry**</td>
<td>F101</td>
<td>4 years</td>
<td>AAA-AAB</td>
<td>36-34</td>
</tr>
<tr>
<td>MSci Chemistry with an International Study Year**</td>
<td>F103</td>
<td>4 years</td>
<td>AAA-AAB</td>
<td>36-34</td>
</tr>
<tr>
<td>MSci Chemistry with a Year in Industry**</td>
<td>F105</td>
<td>4 years</td>
<td>AAA-AAB</td>
<td>36-34</td>
</tr>
<tr>
<td>BSc Medicinal and Biological Chemistry**</td>
<td>FC17</td>
<td>3 years</td>
<td>AAB-ABB</td>
<td>34-32</td>
</tr>
<tr>
<td>MSci Medicinal and Biological Chemistry**</td>
<td>FC1R</td>
<td>4 years</td>
<td>AAA-AAB</td>
<td>36-34</td>
</tr>
<tr>
<td>MSci Medicinal and Biological Chemistry with an Assessed Year in Industry**</td>
<td>CF71</td>
<td>4 years</td>
<td>AAA-AAB</td>
<td>36-34</td>
</tr>
<tr>
<td>BSc Chemistry and Molecular Physics</td>
<td>FF31</td>
<td>3 years</td>
<td>AAB</td>
<td>34</td>
</tr>
<tr>
<td>MSci Chemistry and Molecular Physics</td>
<td>FFH1</td>
<td>4 years</td>
<td>AAB</td>
<td>34</td>
</tr>
<tr>
<td>BSc Biochemistry and Biological Chemistry</td>
<td>C720</td>
<td>3 years</td>
<td>AAB</td>
<td>34</td>
</tr>
<tr>
<td>MSci Biochemistry and Biological Chemistry</td>
<td>C721</td>
<td>4 years</td>
<td>AAB</td>
<td>34</td>
</tr>
</tbody>
</table>

* Transfer to the MSci Chemistry courses (F101, F103 or F105) may be considered at the end of year one depending on your performance.
** If you place chemistry at the University of Nottingham as your firm choice and you do not meet the MSci grades in your offer but meet the BSc grades then you will automatically be offered a place for the BSc degree.
*** Transfer to the MSci Medicinal and Biological Chemistry courses (FC1R or CF71) may be considered at the end of year one depending on your performance.

English language requirements
GCSE 6 in English (or equivalent) or IELTS 6.0 (no less than 5.5 in any element) except for BSc | MSci Chemistry and Molecular Physics, and BSc | MSci Biochemistry and Biological Chemistry that require IELTS 6.5 (no less than 6.0 in any element).
For more information and a list of the alternative English language requirements we accept, please see nottingham.ac.uk/go/alternativerequirements

Developing your academic English and study skills
The Centre for English Language Education (CELE) offers you the opportunity to develop your English language skills at one of the world’s top universities. Accredited by the British Council for the teaching of English, CELE provides high-quality teaching, facilities and support. Our presessional courses take your English language and academic skills to the level you need to progress to undergraduate study without taking IELTS again. Find out more at nottingham.ac.uk/cele

How to apply

All applications for an undergraduate place to study at the University of Nottingham, including applications by international students, must be made through UCAS.

Applications should be made online at ucas.com and candidates will be notified of decisions through UCAS Track.

Alternative qualifications
In this brochure you will find our A level entry requirements but we accept a much broader range of qualifications.

These include:
- Access to HE Diploma
- Advanced Diploma
- BTEC HND/HNC
- BTEC Extended Diploma
- Cambridge Pre-U
- International Baccalaureate
- Irish Leaving Certificate
- Scottish Advanced Highers
- Welsh Baccalaureate Advanced Diploma

Flexible admissions policy
We recognise that some educational and personal circumstances affect achievement. If we judge that you have experienced circumstances that have adversely affected your achievement, we will consider them when assessing your academic potential. Some courses may vary the offer as a result. For the most up to date information about our offers, please see the entry requirements section of our course pages on our online prospectus. For more information about this policy, please see nottingham.ac.uk/ugstudy/applying

Mature applicants
We encourage applications from mature applicants who have a significant gap in education. You should apply in the normal way through UCAS. More information for mature students can be found at nottingham.ac.uk/mature

International applicants
The University provides a range of information and advice for international applicants. If you are unable to attend an open day, we can meet you in your country at one of our overseas events or arrange an individual visit to the University. For further information please visit nottingham.ac.uk/go/international-applicants

Deferred entry
Applicants who wish to defer their entry by a year will not be at a disadvantage. Please tell us something about your plans for your gap year in your UCAS personal statement.

Equal opportunities policy
The University aims to create the conditions whereby students and staff are treated solely on the basis of their merits, abilities and potential, regardless of gender, race, colour, nationality, ethnic or national origin, age, socio-economic background, disability, religious or political beliefs, trade union membership, family circumstances, sexual orientation or other irrelevant distinction.

For more information about our courses please visit nottingham.ac.uk/ugstudy/chemistry

To find out how to apply please visit nottingham.ac.uk/ugstudy/applying

Over one-third of our UK students receive our means-tested core bursary, worth up to £2,000 a year. For details, see nottingham.ac.uk/financialsupport
BSc | MSci Chemistry

These courses provide a strong background in chemical theory and practice and will prepare you for entry into a wide variety of careers.

The final year of the four-year MSci course involves a major research project at the cutting edge of chemistry carried out within a research group in the school. Transfer between the BSc and MSci courses can be considered throughout the first 15 months of study.

Year one
Building on your pre-university studies, you will spend three quarters of your first year gaining core chemical knowledge and understanding. If you do not have A level mathematics (or equivalent) then you will take an additional in-house module to prepare you for this aspect of the chemistry course. Optional modules are available and account for the remainder of your study time.

Year two
In the second year, theoretical and practical modules further develop the knowledge and understanding gained in the first year. The core material accounts for approximately 100 credits of your study with a further 20 credits taken as optional modules.

Year three
You’ll study the three major branches of chemistry in increasing depth in 60 credits of core modules. Advanced practical work is covered by a 30 credit module. You will also have a choice of specialist optional modules to provide a further 30 credits.

Year four (MSci students)
You will undertake a major 60 credit research project. The project will develop not only your practical ability, team working and problem-solving skills, but also your appreciation of published literature, your use of library and computer database resources and your presentation skills. You will complete a further 60 credits of optional modules in year four.

Typical modules

For more detailed course content visit
nottingham.ac.uk/ugstudy/chemistry

Throughout my degree, not only did I learn about molecular orbital theory and how to draw an organic mechanism, but I also learnt skills in project management, public speaking and written communication. Since joining Croda, I use these transferable skills on a day-to-day basis, and they are fundamental in allowing me to do my job well.

Katie Lamport, MSci Chemistry

* Compulsory for students not offering A level mathematics (or equivalent); optional for students offering at A level mathematics (or equivalent).

Modules may change, for example due to curriculum developments. The above list is a sample of typical modules that we offer, not a definitive list. The most up to date information can be found on our website at nottingham.ac.uk/ugstudy
MSci Chemistry with an International Study Year

This four-year course provides in-depth training in chemistry with the added opportunity of an international study year in year three.

Years one and two
You will follow the same course of study as the MSci Chemistry degree during years one and two. During year two you will apply to potential host universities for entry into year three and you will be supported in this process by the University. Progression onto year three of the MSci Chemistry with an International Study Year degree will depend on securing a placement and a good level of performance in years one and two.

Year three
In year three you will have the opportunity to study in the chemistry department at one of our partner universities, which currently include:

- Australia: Australian National University, Monash University, University of Melbourne, University of New South Wales, University of Queensland, University of Sydney
- Canada: Concordia University, McGill University, University of British Columbia
- Hong Kong: The University of Hong Kong
- Ireland: University College Dublin
- New Zealand: University of Auckland, University of Canterbury
- Singapore: The National University of Singapore
- USA: University of Arizona, University of Connecticut, University of North Carolina at Chapel Hill

You will study a framework of core modules at the host university which builds on the foundation of years one and two and which will prepare you for the final year in Nottingham. Optional modules will allow you to benefit from the unique opportunities for study at the host school.

Year four
The final year is similar to that of the MSci Chemistry course. You will also undertake a major research project, which provides an opportunity to experience research methods employed in modern chemistry.

As a global university, Nottingham excels at giving you the opportunity to participate in your studies abroad. With a wide range of partner universities, Nottingham gives you the chance to broaden your knowledge in a variety of new countries and this was why I chose to study here – and I enjoyed every second!

Pippa Oxford, MSci Chemistry with an International Study Year

For more detailed course content visit
nottingham.ac.uk/ugstudy/chemistry

MSci Chemistry with a Year in Industry

This four-year course provides in-depth training in chemistry with the added opportunity of an assessed year spent in a research laboratory of a major chemical company in year three.

Years one and two
You will follow the same course of study as the MSci Chemistry degree during years one and two. You will apply to potential companies for your year three placement and you will be supported in this process by the University. Progression onto year three of the MSci Chemistry with a Year in Industry degree will depend on securing a placement and a good level of performance in years one and two.

Year three
Progression onto the assessed third year gives you an opportunity to work on a 90-credit research project in a research laboratory of a major chemical company where you will be a salaried employee. Three 10-credit distance learning theory modules will develop your core chemistry knowledge. Comprehensive academic and pastoral support will be provided. Recent destinations for placement students have included Actelion (Switzerland), AstraZeneca (UK and Sweden), BP, GlaxoSmithKline, Infinum, Janssen (Belgium), Lubrizol and Syngene.

Year four
The final year is similar to that of the MSci Chemistry course. You will also undertake a major research project, which provides an opportunity to experience research methods employed in modern chemistry.
BSc | MSci Medicinal and Biological Chemistry

These courses combine comprehensive training in chemistry with aspects of biochemistry and pharmacology relevant to understanding human disease and drug design.

The course content has been tailored to produce graduates with an excellent practical and theoretical knowledge of synthetic and analytical chemistry. The modules making up the course are given by members of the Schools of Chemistry and Life Sciences.

Year one
In the first year you will follow introductory courses in chemistry, physiology and pharmacology, including practical training. You will spend three quarters of your first year gaining core chemical knowledge and understanding that builds upon your pre-university studies. If you do not have A level mathematics (or equivalent) you will take an additional in-house module to prepare you for this aspect of the chemistry course.

Year two
You will cover topics in physical, inorganic and organic chemistry in more depth, as well as complementary courses in spectroscopy, biological chemistry and pharmacology, which includes a case study on the development of a recent drug.

Year three
You will follow advanced courses in organic, inorganic, biological and medicinal chemistry. If you are pursuing the MSci course you may take an optional drug discovery module taught in collaboration with staff from GlaxoSmithKline.

Year four (MSci students)
You will undertake a major 60-credit research project. The project will develop not only your practical ability, team working and problem-solving skills, but also your appreciation of the published literature, your use of the library and computer database resources and your presentation skills. You will complete a further 60 credits of optional modules in year four.

Modules may change, for example due to curriculum developments. The above list is a sample of typical modules that we offer, not a definitive list. The most up to date information can be found on our website at nottingham.ac.uk/ugstudy. For more detailed course content visit nottingham.ac.uk/ugstudy/chemistry
MSci Medicinal and Biological Chemistry with an Assessed Year in Industry

The first two years of this course are common to the BSc MSci Medicinal and Biological Chemistry courses. On completion of this degree, you can progress into careers in the pharmaceutical, agrochemical and biotechnology industries, as well as higher research and vocational degrees.

Years one and two
You will follow the same course of study as the MSci Medicinal and Biological Chemistry degree during years one and two. You will apply to potential companies for your year three placement and you will be supported in this process by the University.

Year three
Progression onto the assessed third year gives you an opportunity to work on a 90-credit research project in a research laboratory of a major chemical company where you will be a salaried employee. Three 10 credit distance learning theory modules will develop your core chemistry knowledge. Comprehensive academic and pastoral support will be provided. Recent destinations for placement students have included Actelion (Switzerland), AstraZeneca (UK and Sweden), BP, GlaxoSmithKline, Infineum, Janssen (Belgium), Lubrizol and Sygnature.

Year four
The final year follows a similar course as for the MSci Medicinal and Biological Chemistry course. You will also undertake a major research project, which provides an opportunity to experience research methods employed in modern chemistry.

My degree gives me the opportunity to study a wide variety of topics in biochemistry and pharmacology all relating to medicinal chemistry but without restricting the amount of other areas in chemistry I am exposed to. One of the highlights has to be the module in third year which is co-run with GlaxoSmithKline. This gave me a real insight into how medicinal chemistry works in an industrial environment.

Jamie Cadge,
MSci Medicinal and Biological Chemistry

For more detailed course content visit nottingham.ac.uk/ugstudy/chemistry

Typical modules

<table>
<thead>
<tr>
<th>Year one</th>
<th>Year two</th>
<th>Year three (Year in industry)</th>
<th>Year four</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core</strong></td>
<td><strong>Core</strong></td>
<td><strong>Core</strong></td>
<td><strong>Core</strong></td>
</tr>
<tr>
<td>Calculations in Chemistry</td>
<td>Basic Molecular Pharmacology</td>
<td>Distance Learning Inorganic Chemistry</td>
<td>Chemistry Research Project</td>
</tr>
<tr>
<td>Chemistry Study Skills</td>
<td>Core Laboratory Work</td>
<td>Distance Learning Organic Chemistry</td>
<td>Advanced Physical Chemistry</td>
</tr>
<tr>
<td>Foundation Laboratory Work</td>
<td>Equilibria, Rates and Interfaces</td>
<td>Distance Learning Physical Chemistry</td>
<td>Contemporary Physical Chemistry</td>
</tr>
<tr>
<td>Introduction to Organic Molecules and their Reactivity</td>
<td>General Inorganic Chemistry</td>
<td>Year in Industry Research Project</td>
<td>Contemporary Organic Synthesis and the Construction of Bioactive Targets</td>
</tr>
<tr>
<td>Introduction to Spectroscopy, Energy and Bonding in Chemistry</td>
<td>Medicinal Chemistry and Molecular Biology</td>
<td></td>
<td>Enterprise for Chemists</td>
</tr>
<tr>
<td>Introduction to Structure, Periodicity and Coordination Chemistry</td>
<td>Pharmacology Dissertation: Drugs and Diseases</td>
<td></td>
<td>Inorganic and Materials Chemistry</td>
</tr>
<tr>
<td>Human Physiology</td>
<td>Quantum Chemistry and Spectroscopy</td>
<td></td>
<td>Medicines from Nature and Pharmaceutical Process Chemistry</td>
</tr>
<tr>
<td><strong>Optional</strong></td>
<td>Synthesis and Spectroscopy</td>
<td></td>
<td>Nucleic Acids and Bioorganic Mechanism</td>
</tr>
<tr>
<td>Mathematical Toolkit^</td>
<td></td>
<td></td>
<td>Self-assembly and Bottom-up Approaches to Nanostructure Fabrication</td>
</tr>
</tbody>
</table>

^ Compulsory for students not offering A level mathematics (or equivalent); optional for students offering A level mathematics (or equivalent).

Modules may change, for example due to curriculum developments. The above list is a sample of typical modules that we offer, not a definitive list. The most up to date information can be found on our website at nottingham.ac.uk/ugstudy
For more detailed course content visit nottingham.ac.uk/ugstudy/chemistry

For more detailed course content visit nottingham.ac.uk/ugstudy/chemistry

The course combines the aspects of chemistry and physics I enjoy most and allows me to learn a diverse range of modules. This, as well as the attractive campus and lively city, was my main reason for choosing to study here.

Florence Jones, Chemistry and Molecular Physics

BSc | MSci Chemistry and Molecular Physics

These courses focus on the area of overlap between the traditional disciplines of chemistry and physics.

The BSc and MSci degrees are a unique alternative to chemical physics courses offered elsewhere and our graduates enter a wide range of science based careers or progress to research-level degrees. The courses are designed to be flexible so it may be possible to transfer to a chemistry or physics degree at the end of the first year, depending on your performance in year one.

Year one

In the first year you will study introductory chemistry, physics and mathematics modules. You will take practical chemistry classes in our teaching laboratories and a special module on data analysis and scientific computing.

Year two

In the second year, lectures will concentrate on physical chemistry, spectroscopy, quantum mechanics and electromagnetic fields, and there are laboratory classes in both chemistry and physics. There is a choice of optional modules, covering specialised topics such as nanotechnology and analytical chemistry.

Year three

In the third year, core modules cover energetics and kinetics, magnetic resonance, surface science, solid-state physics, and atomic and particle physics. You will develop communication skills and undertake project-based practical work to develop your understanding of these key areas. Optional modules include molecular modelling and catalysis.

Year four (MSci students)

You will carry out a major research project. As well as formal lectures, emphasis is placed on the development of problem-solving and communication skills.

Typical modules

<table>
<thead>
<tr>
<th>Year one</th>
<th>Year two</th>
<th>Year three</th>
<th>Year four (MSci students)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core</strong></td>
<td><strong>Core</strong></td>
<td><strong>Core</strong></td>
<td><strong>Core</strong></td>
</tr>
<tr>
<td>Computing For Physical Science</td>
<td>Classical Fields</td>
<td>Advanced Laboratory Techniques</td>
<td>You can choose one of the following:</td>
</tr>
<tr>
<td>From Newton to Einstein</td>
<td>Core Laboratory Work</td>
<td>Atoms, Photons and Fundamental Particles</td>
<td>- Chemistry Research Project</td>
</tr>
<tr>
<td>Fundamental Inorganic Chemistry</td>
<td>Experimental Techniques and Instrumentation</td>
<td>Chemical Bonding and Reactivity</td>
<td>- Natural Science and CMP Physics Project</td>
</tr>
<tr>
<td>Fundamental Organic Chemistry</td>
<td>Intermediate Inorganic Chemistry</td>
<td>Chemistry and Molecular Physics</td>
<td>- Optional</td>
</tr>
<tr>
<td>Fundamental Physical Chemistry</td>
<td>Intermediate Physical Chemistry</td>
<td>Literature and Communication Skills</td>
<td>- Advanced Physical Chemistry</td>
</tr>
<tr>
<td>Introductory Laboratory Work</td>
<td>Spectroscopy and Quantum Chemistry</td>
<td>Fourier Methods</td>
<td>- Contemporary Physical Chemistry</td>
</tr>
<tr>
<td>Mathematics for Physics and Astronomy</td>
<td>The Quantum World</td>
<td>Introduction to</td>
<td>- From Accelerators to Medical Imaging</td>
</tr>
<tr>
<td><strong>Optional</strong></td>
<td><strong>Optional</strong></td>
<td>Solid State Physics</td>
<td>- Functional Medical Imaging</td>
</tr>
<tr>
<td>Frontiers in Chemistry</td>
<td>Force and Function at the Nanoscale</td>
<td>Solids, Interfaces</td>
<td>- Imaging and Manipulation at the Nanoscale</td>
</tr>
<tr>
<td>Introduction to Green Chemistry and Processing</td>
<td>Principles of Analytical Chemistry</td>
<td>and Surfaces</td>
<td>- Inorganic and Materials Chemistry</td>
</tr>
<tr>
<td><strong>Optional</strong></td>
<td><strong>Optional</strong></td>
<td><strong>Optional</strong></td>
<td>- Quantum Dynamics</td>
</tr>
<tr>
<td>Bioinorganic and Metal Coordination Chemistry</td>
<td></td>
<td></td>
<td>- Self-assembly and Bottom-up Approaches to Nanostructure Fabrication</td>
</tr>
<tr>
<td>Catalysis</td>
<td>Fourier Methods</td>
<td>Inorganic and Materials Chemistry</td>
<td>- Semiconductor Physics</td>
</tr>
<tr>
<td>Lasers in Chemistry</td>
<td>Introduction to Solid State Physics</td>
<td>Quantum Dynamics</td>
<td>- The Politics, Perception and Philosophy of Physics</td>
</tr>
<tr>
<td>Topics in Inorganic Chemistry</td>
<td>Physics Project</td>
<td>Self-assembly</td>
<td></td>
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<td></td>
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</tr>
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</table>

Modules may change, for example due to curriculum developments. The above list is a sample of typical modules that we offer, not a definitive list. The most up to date information can be found on our website at nottingham.ac.uk/ugstudy
BSc | MSc Biochemistry and Biological Chemistry

Accredited by the Royal Society of Chemistry, these courses equip you with the fundamental aspects of biochemistry and chemistry.

Teaching is split between the School of Life Sciences and the School of Chemistry, providing you with expertise from both subjects.

Year one
During this introductory year, you will study cell biology, biochemistry, genetics and cellular control together with essential chemistry. These modules are supported by practical studies in cell biology, biochemistry, genetics and chemistry. Students without A level maths will be required to take modules providing the necessary maths skills for chemists.

Year two
In the second year, you will expand your chemical knowledge, both theoretically and practically. Proteins and enzymes are explored, from their structure to their mechanisms. Other core topics include cell signalling and an understanding of how biochemical processes are integrated and regulated.

Year three
Advanced laboratory work in biochemistry and chemistry is a major feature of the third year. In biochemistry, you will perform a number of fundamental and advanced molecular biology techniques. Individual results and data from the class will be analysed as part of an overall project to investigate relevant scientific questions. In chemistry, you will further your experience in the principles upon which modern experimental methodology is based, chemical synthesis, obtaining and interpreting physical data, and report writing.

Year four (MSci only)
A substantial feature of the fourth year is an extended individual project in biochemistry or chemistry, which may be either lab or bioinformatics based. All subjects will require a review of published work and the planning of a research project under the guidance of two supervisors. You will be assessed by a dissertation and oral presentation.

Modules may change, for example due to curriculum developments. The above list is a sample of typical modules that we offer, not a definitive list. The most up to date information can be found on our website at nottingham.ac.uk/ugstudy

For more detailed course content visit nottingham.ac.uk/ugstudy/chemistry

At Nottingham, I had the unique opportunity to read a challenging interdisciplinary course that gave me skills and knowledge in several sciences. This was an incredible and memorable part of my university life and no doubt will influence my future for the better.

Kayleigh Fung, Biochemistry and Biological Chemistry
World class for employability

As a Nottingham chemistry graduate you will be well prepared for a wide range of employment and postgraduate study opportunities.

The chemical industry continues to be an important industrial sector in the UK and the emerging materials and biotechnology sectors require trained chemists who can generate the new materials, products and knowledge that are needed in these areas.

94% of first-degree graduates from the School of Chemistry who were available for employment had secured work or further study within six months of graduation.*

£21,889 was the average starting salary, with the highest being £45,000.*

Recent graduate destinations:
- Boots
- Cancer Research
- GlaxoSmithKline
- HSBC
- Intellectual Property Office
- NHS
- Unilever

In addition to equipping you with theoretical and practical skills in chemistry, a degree in chemistry from Nottingham also demonstrates that you can think logically and critically, solve complex problems and manage your time effectively. Consequently, our graduates may also be employed in professions including those in finance, education, marketing, and the media.

Many graduates continue their studies in chemistry or a related discipline, working towards a doctorate degree at Nottingham and elsewhere as a result of the enthusiasm they developed during their fourth year project.

Careers and Employability Service

Our Careers and Employability Service has a team dedicated to Faculty of Science students. They will be on hand to offer you specialist support and guidance throughout your degree and for life after you graduate. Whether you need help writing a CV, preparing for an interview or exploring career ideas, finding an internship or part-time work, you can book one-to-one appointments or come along to a workshop.

Each term there is also an exciting events schedule, bringing you face-to-face with employers offering real-life insight into their professions. Find out more about the Careers and Employability Service: nottingham.ac.uk/careers

The Nottingham Advantage Award

The award-winning Nottingham Advantage Award recognises and rewards your extracurricular activities. With a choice of over 200 modules, you can hone the key skills employers want. From developing your leadership skills and learning a language to public speaking and volunteering, you will leave university with demonstrable experience that sets you apart from other graduates. For further information, please visit nottingham.ac.uk/careers/advantage

In addition to equipping you with theoretical and practical skills in chemistry, a degree in chemistry from Nottingham also demonstrates that you can think logically and critically, solve complex problems and manage your time effectively. Consequently, our graduates may also be employed in professions including those in finance, education, marketing, and the media.

Many graduates continue their studies in chemistry or a related discipline, working towards a doctorate degree at Nottingham and elsewhere as a result of the enthusiasm they developed during their fourth year project.

I have now chosen Nottingham twice, once for my undergraduate degree and again for my PhD. Throughout my degree I was given some wonderful opportunities to apply the chemistry I had learnt; by the time I graduated I had done three summer research projects at Nottingham, a year in industry abroad and a masters research project. I enjoyed these experiences so much that I returned to start my PhD with the newly opened Centre for Doctoral Training in Sustainable Chemistry the September after my graduation.

Grace Lowe, PhD Chemistry

Careers and employability

Find out more about the Careers and Employability Service at nottingham.ac.uk/careers

* Known destinations of full-time home first-degree undergraduates 2014/15. Salaries are calculated based on those in full-time paid employment within the UK.
Experience it in a world beyond ordinary

There’s so much for you to get involved in and explore at the University and around the city. Whether you’re interested in sports, learning a language or just having fun with friends alongside studying, you’ll be spoilt for choice.

Getting involved in your Students’ Union
University of Nottingham Students’ Union (UoNSU) is a brilliant, diverse community, and whether you are an undergraduate or postgraduate, first-year or final-year student, you are a part of it. With 300+ student-led groups, clubs and societies, hundreds of volunteering opportunities and support for every stage of your university journey, your Students’ Union offers something for everyone. Find out more: su.nottingham.ac.uk

Exploring your new city
Nottingham city centre is around a 10-minute bus ride away from University Park Campus, so you’re always close to the action. There are plenty of music venues, from the world-famous Rock City to the Motorpoint Arena or one of the smaller gig venues for a more intimate live show. If you enjoy shopping, there are independent boutiques and vintage shops as well as high street names in our large shopping centres. Nottingham is also a hotspot for dining, with a great choice of cuisines on offer. Find out more: nottingham.ac.uk/nottinghamlife

Your opportunity to study abroad
We offer a range of study abroad opportunities with many students having the option to live and study in another country as part of their university career. Studying or working abroad is a fantastic opportunity to broaden your horizons, experience different cultures, and develop the key skills that employers are looking for. Find out more: nottingham.ac.uk/studywithus/studyabroad

Sport
The University of Nottingham is one of the UK’s leading universities for sport and is currently ranked 4th in the university sport rankings*. We have one of the biggest portfolios of sports facilities in the country including the brand new £40m David Ross Sports Village. We also have a rich heritage of supporting Olympic medallists and we have more than 70 student sports clubs to choose from. Find out more: nottingham.ac.uk/sport

*British Universities and Colleges Sport Standings, 2015-16.

Your support network
Throughout your university journey there will be numerous people on hand to support and advise you, including tutors and dedicated staff. We have Student Service Centres on all three of our UK campuses, which provide a range of support, information and specialist services. Find out more: nottingham.ac.uk/studentservices

Your new home from home
At Nottingham we offer a wide range of room types across the campuses in both catered and self-catered accommodation. From standard single rooms with shared bathrooms to large en-suite studios and flats, there’s something to suit every budget and personal choice. For current pricing and to review all accommodation options please visit nottingham.ac.uk/accommodation

Learn a language
The University’s Language Centre gives you the opportunity to study a language alongside your course. All languages are offered from beginners’ level with some going up to near native competency. There are nine languages to choose from: Modern Standard Arabic, Dutch, French, German, Italian, Japanese, Mandarin Chinese, Russian, and Spanish. Find out more: nottingham.ac.uk/language-centre
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This brochure has been drafted in advance of the academic year to which it applies. Every effort has been made to ensure that the information contained in this brochure is accurate at the time of publishing, but changes (for example to course content) are likely to occur given the interval between publication and commencement of the course. It is therefore very important to check our website for any updates before you apply for the course by following nottingham.ac.uk/ugstudy. Where there is a difference between the contents of this brochure and our website, the contents of the website take precedence.