



University of  
**Strathclyde**  
Glasgow



DEPARTMENT OF PURE & APPLIED CHEMISTRY

# Chemistry

[www.strath.ac.uk/science/chemistry/](http://www.strath.ac.uk/science/chemistry/)

# Use your passion for chemistry to open a world of opportunities for yourself in industries around the globe...

Every industry that touches our lives is heavily influenced by chemistry. Pioneering chemists are making discoveries every day that are improving the standards of living and saving the lives of people around the world. With the MChem Chemistry degree, you will have the opportunity to join these pioneers, having the potential to really leave your mark on the world and gain substantial reward.



Chemistry graduates are able view the world from a unique perspective of understanding. They are able to analyse, understand and construct the materials and substances that we all encounter and depend upon in everyday life.

Life itself is built on a complex series of chemical reactions and so chemical knowledge underpins drug design and our view of how our bodies operate.

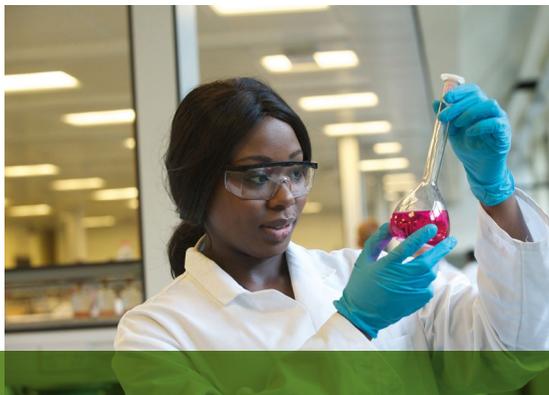
In our modern world of technology, chemists are breaking the boundaries of discovery to invent new tools that will help to shape our futures, whether socially, intellectually or medically.

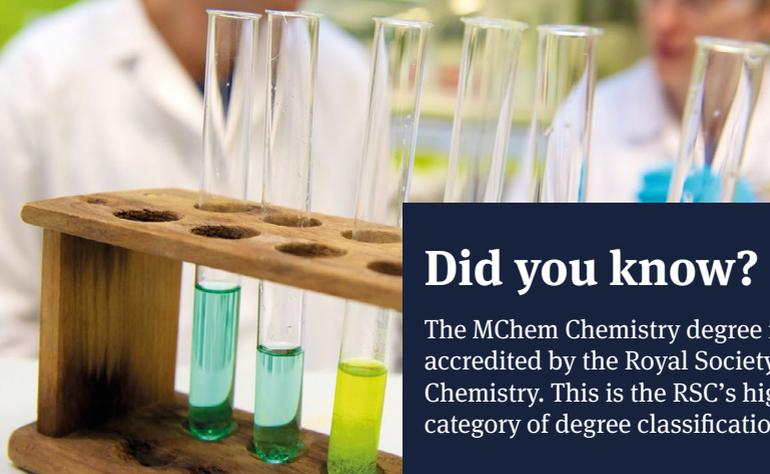


We need skilled chemists to ensure that, while we innovate and advance humankind, our activities work in harmony with our environment.

With the MChem Chemistry degree, you will be exposed to a broad spectrum of fascinating areas of chemistry. You will study how molecules can be detected, probed, handled and transformed in biomolecular and medicinal chemistry. You will also gain extensive practical experience in our teaching and research laboratories, as well as participating in a 1 year industrial placement.

We will ensure that your knowledge is not only theoretical, but can be put to direct use as you embark on a fascinating and rewarding career of innovation and discovery...





## Did you know?

The MChem Chemistry degree is accredited by the Royal Society of Chemistry. This is the RSC's highest category of degree classification.

# Why study MChem Chemistry at the University of Strathclyde?

The Department of Pure and Applied Chemistry at the University of Strathclyde is one of the largest chemistry departments in the UK. We attract the largest annual intake of undergraduates in Scotland due to:

- the excellence of our teaching and facilities;
- the flexibility of our courses;
- the opportunities to specialise;
- our unique industrial placement programme;
- opportunities to study or work abroad;
- graduate employment prospects.

Our courses are taught by talented professors and lecturers who are also actively involved in international research, within the subject areas that they teach.

Our chemistry graduates are in high demand in all branches of the chemical industry, and beyond. And their employment prospects are substantially boosted by our industrial placement scheme and additional skills training.

The MChem Chemistry degree is accredited by the Royal Society of Chemistry. This is their highest category of degree classification.

In addition to their impressive chemistry expertise, our MChem Chemistry graduates can demonstrate a broad range of key transferrable skills that employers agree they value most in graduates. These include: excellent communication and presentation skills, team working and personal effectiveness skills, IT competence and industrial experience.

This is the most adaptable chemistry course offered by the University. It enables students to study a wide selection of chemistry subjects throughout their course, gaining exposure and expertise in a fascinating variety of areas. Should students discover an area of particular interest, they have the option to transfer to other more specialised courses up until their third year, assuming their exam results are suitable.

After graduating and gaining some work experience, graduates are eligible to apply for the status of Chartered Chemist - the UK qualification recognised in the European Community for professional chemists.

## How is the course structured?

At the beginning of your MChem Chemistry degree, you will be taught alongside students studying other chemistry degrees, giving you a taste of a wide variety of specialisms. During the early years it is possible to transfer between chemistry degrees as you discover specific areas of interest, as long as your exam results are satisfactory.

**Year 1:** The foundation course, consisting of the fundamentals of Chemistry, Mathematics and either Biology or Physics. You also choose other courses from across the University. Practical work reinforces the lecture material and encourages you to develop valuable transferable skills such as communication, group work and safety.

**Years 2 & 3:** As you progress through your course, you will begin to tailor your degree to suit your requirements, choosing the subjects of most interest to you. You will spend more time on practical laboratory work. The core discipline of Chemistry will be taught in more depth, along with your choice of chemistry specialisation and again, your choice of elective subject. Typical studies revolve around the design of drugs or high-tech materials, environmental chemistry, spectroscopy, the uses of the transition metals, protein synthesis and the control of industrial chemical processes.

**Year 4:** Industrial Placement: During your fourth year you will undertake either a 12 month paid industrial placement (IP) or a research or Knowledge Exchange placement within our Chemistry Clinic. These placements can take place in the UK or abroad, giving you the opportunity to gain valuable work experience, make crucial contacts and even potentially earn a realistic salary. It is an experience that can truly broaden your horizons in many senses and make a real impact on the professional and personal outlook of students. The University of Strathclyde's IP scheme has been running successfully for more than 25 years, so we have excellent links with employers and a tried and tested support network in place.

**Year 5:** The final year consists of specialised taught classes and a large part of your time will be devoted to a laboratory based research project of your choice.

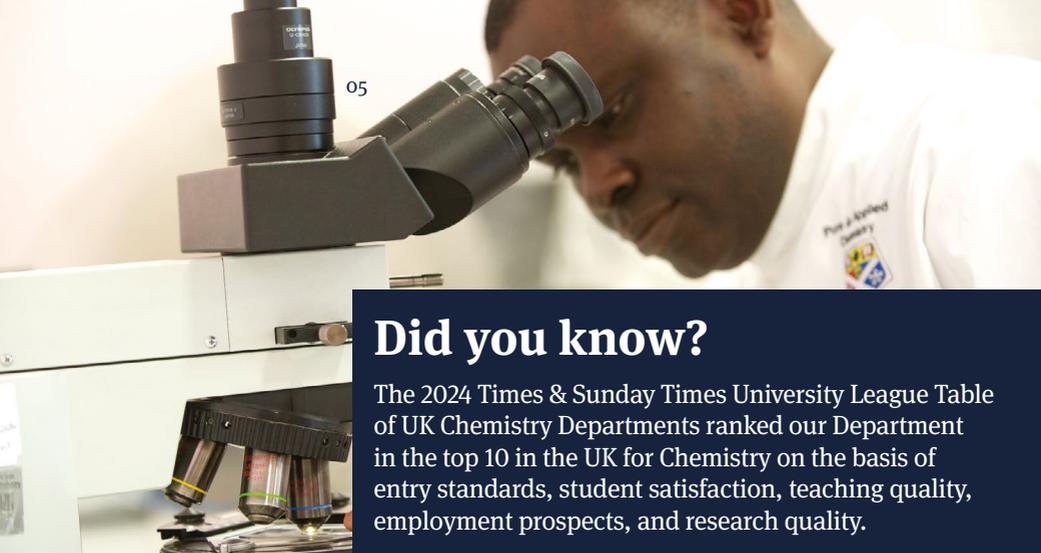
Check out some of our students working in our Chemistry Clinic by visiting:



<https://www.strath.ac.uk/science/chemistry/chemistryclinicvideo/>



Broaden your horizons and gain invaluable professional experience through a 12 month paid industrial placement or a research or Knowledge Exchange placement.



## Did you know?

The 2024 Times & Sunday Times University League Table of UK Chemistry Departments ranked our Department in the top 10 in the UK for Chemistry on the basis of entry standards, student satisfaction, teaching quality, employment prospects, and research quality.

## Where can this course lead you?

The chemistry-based industry is one of the most important and diverse commercial sectors in the UK, covering a huge range of activities. Chemistry expertise is required in so many scientific and technological areas that there is a continuous demand for good chemistry graduates, and a broad spectrum of rewarding career directions to choose from, both within the UK and internationally. Exciting new career paths are constantly being generated as the science advances in its discoveries.

In addition to their scientific expertise, our graduates can also boast of an array of valuable transferrable skills. This means that the MChem Chemistry degree can open all sorts of interesting and rewarding career paths, both within the chemistry industry and in a variety of other fields. Here are a few examples:

- Accountancy firms
- Chemical industry
- Environmental agencies
- Education
- Food, drink & cosmetics industries
- Forensic services
- Government services
- Health service
- Patent agencies
- Petrochemical industry
- Pharmaceutical industry
- Sales and marketing

Job titles include:

- Analytical chemist
- Chemical engineer
- College /university lecturer
- Environmental chemist
- Forensic scientist
- Industrial chemist
- Laboratory manager
- Materials scientist
- Medicinal chemist
- Pharmaceutical researcher
- Police officer
- School teacher

## What do our students say?

**“I chose Strathclyde University because of its great reputation, for chemistry in particular. It is one of the leading universities for sciences and the lecturers are highly respected professionals within their fields. I would definitely recommend Strathclyde University to anyone who is thinking of studying chemistry. You learn from some of the most experienced individuals in their field, study many different branches of chemistry and gain invaluable experience of laboratory work undertaking many hours of practical work within an academic setting.”**

Lauren McShannon

# Studying, working and living in Glasgow

The University of Strathclyde campus is situated in the heart of Glasgow, a vibrant, multi-cultural city with an exciting social scene, great transport links, and many part-time employment prospects.

Glasgow has a long reputation as Scotland's largest, friendliest and most cosmopolitan city. You will find beautiful architecture around every corner and activities to suit every taste.

You can enjoy a vast array of places to eat out and shop, from high street names to off-beat boutiques; and revel in legendary nightlife, with a huge selection of bars and clubs to choose from. Glasgow is home to an eclectic mix of cutting-edge music, with over 100 gigs taking place every week.

There are more than 20 incredible museums, galleries and science centres scattered across the city, and best of all, most of them are completely free!

The city is also home to numerous theatres, cinemas, Scottish Opera, BBC Scottish Symphony Orchestra, Scottish Royal Ballet, and an abundance of sporting stadiums and events; as well as vibrant festivals and pop up events throughout the year.

“Glasgow” means “dear green place”, and with over 90 parks and gardens open to the public across the city, it is easy to see why. With the spectacular scenery of the highlands and islands less than one hour from the city centre and the ‘bonny banks’ of Loch Lomond just 40 minutes away; you’re never far from the breath taking vistas of Scotland’s great outdoors.





## Did you know?

The Department of Pure and Applied Chemistry at the University of Strathclyde has a long and distinguished history. It was established in 1803, long before the University itself. The first Professor was Thomas Graham, inventor of dialysis and famous for his gas laws.

## Entry Requirements for MChem Chemistry (F103 MChem/Ch)

**SCAN THE QR CODE  
TO VIEW DETAILS OF  
ENTRY REQUIREMENTS**



 **SCAN QR CODE**

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Find out more: [www.strath.ac.uk/science/chemistry/](http://www.strath.ac.uk/science/chemistry/)  
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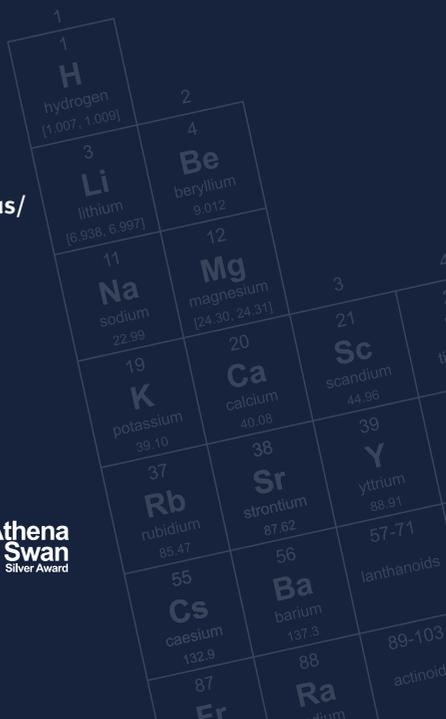
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the place of useful learning  
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University of Strathclyde Glasgow

The University of Strathclyde is a charitable body,  
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Athena  
Swan  
Silver Award



1 H hydrogen [1.007, 1.009]	2 He helium [4.0026, 4.0026]	
3 Li lithium [6.938, 6.997]	4 Be beryllium 9.012	
11 Na sodium 22.99	12 Mg magnesium [24.30, 24.31]	
19 K potassium 39.10	20 Ca calcium 40.08	3 Sc scandium 44.96
37 Rb rubidium 85.47	38 Sr strontium 87.62	39 Y yttrium 88.91
55 Cs caesium 132.9	56 Ba barium 137.3	57-71 lanthanoids
87 Fr francium	88 Ra radium	89-103 actinoids