



University College Dublin
Ireland's Global University

MSc Chemistry (Negotiated Learning) (One Year Full Time)

Ireland is home to 9 of the top 10 world pharmaceutical and biotechnology companies, such as GlaxoSmithKline, Pfizer, Merck, Bristol Myer Squibb and Genzyme; with 7 of the 10 world blockbuster pharmaceuticals made in Ireland.

The MSc in Chemistry by negotiated learning is a flexible programme delivered through the UCD School of Chemistry and Chemical Biology. The programme offers a wide selection of modules and is ideal if you are considering progressing to industry or further research.

Academic advice is available to ensure that the choices you make match your career aspirations or areas of interest. For example, students wishing to broaden their understanding of chemistry could choose a range of modules from across the entire chemical science discipline, while those that are intent on progressing to a PhD programme might choose to concentrate on available modules in a specific area, e.g. chemical biology, medicinal or pharmaceutical chemistry, nanochemistry, sustainable chemistry or materials chemistry.

Why study at UCD?



Tradition

Established 1854, with 160 years of teaching & research excellence



Global profile

UCD is ranked in the top 1% of higher education institutions worldwide



Global community

Over 6,000 international students from over 120 countries study at UCD



Global careers

Degrees with high employability; dedicated careers support; 1 year stay-back visa



Safety

Modern parkland campus with 24 hour security, minutes from Dublin city centre

Key fact

The UCD School of Chemistry and Chemical Biology has vibrant research in areas such as catalysis and new transformations, bioNano interface, advanced spectroscopy, new materials for magnetic, medicinal, and electronic applications and carbohydrate chemistry.

Course Content and Structure

90 credits
taught masters

60 credits
taught modules

30 credits
research project

Modules on offer cover all the major themes of chemistry including:

- Advanced synthetic organic and inorganic chemistry
- Surface science
- Materials chemistry
- Advanced spectroscopy
- Advanced crystallography
- Commercialisation of laboratory research
- Biological, medicinal and pharmaceutical chemistry
- Sustainable and environmental chemistry
- Nanochemistry
- Biophysical chemistry
- Polymer chemistry
- Computational chemistry
- Research project

During the third semester students are placed within the research groups of a member of staff in the School to carry out a 30-credit 3-month research project. The research interests of the academic staff members are at www.ucd.ie/chem/staff



Modules and topics shown are subject to change and are not guaranteed by UCD.

Career Opportunities

The MSc in Chemistry through negotiated learning provides a basis for graduates to enter the chemical, pharmaceutical, bio-pharmaceutical and materials industries. Analytical services, environmental protection and primary and secondary school teaching present other possible opportunities. Furthermore, through judicious choice of modules within one particular sub-discipline of chemistry, the programme is an attractive route for some students into a PhD programme.



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Fees and Scholarships

Tuition fee information is available on www.ucd.ie/fees. Please note that UCD offers a number of postgraduate scholarships for full-time, self-funding international students, holding an offer of a place on masters programmes. Please visit www.ucd.ie/international/scholarships for further information.

Facilities and Resources

The UCD School of Chemistry and Chemical Biology is located in the state-of-the-art UCD O'Brien Centre for Science with world-class facilities in technologies such as X Ray crystallography, nanoparticle characterisation, microanalysis, NMR spectroscopy and Mass Spectrometry.

Apply Now

This programme receives significant interest so please apply early online at www.ucd.ie/apply

Entry Requirements

- This programme is intended for applicants with a Chemistry degree, or a degree with a significant component of chemistry. An upper second class honours or international equivalent is required.
- Applicants whose first language is not English must also demonstrate English language proficiency of IELTS 6.5 (no band less than 6.0 in each element), or equivalent.

Staff Profile



Dr Xiangming Zhu,
UCD School of
Chemistry & Chemical
Biology

This MSc in Chemistry by negotiated learning trains students to a high level of knowledge and proficiency in a specialised area of chemistry

such as medicinal chemistry, chemical biology, pharmaceutical chemistry, energy and sustainable chemistry, biophysical chemistry or nanotechnology. Students participate in laboratory work based in our newly developed ergonomic, high specification, modern laboratories in the UCD O'Brien Centre for Science. Our core facilities are at internationally competitive levels, including NMR spectrometry, mass spectrometry/chromatography, X-ray crystallography and microanalysis.

Accommodation

UCD has accommodation for over 2,500 students across five locations. Places are limited and more information is available at www.ucd.ie/residences/. For information and advice on living off campus, please contact the UCD Residences Off-Campus Office or the UCD Student Union Accommodation Services. Please visit www.ucd.ie/residences/accommodation-booking-support/ for further details.

Related Masters Programmes of Interest

- MSc Biotechnology
- MSc Biotechnology & Business
- MSc NanoBio Science
- MSc Plant Biology & Biotechnology

EU Enquiries Dr James Sullivan, Course Director ✉ james.sullivan@ucd.ie
www.ucd.ie/graduatestudies

UCD School of Chemistry and Chemical Biology, University College Dublin, Belfield, Dublin 4.

Non-EU Enquiries ✉ : internationaladmissions@ucd.ie
www.ucd.ie/international