APPLIED ANALYTICAL CHEMISTRY MSc / 2018/19 ENTRY

www.ucl.ac.uk/graduate/chemistry
Analytical chemistry underpins many important commercial enterprises from jet engine development to food production, and is also applied to many other academic disciplines such as Earth sciences, medicine, archaeology, pharmacy and forensics. This MSc seeks to train the next generation of analytical scientists in state-of-the-art methods and skills to tackle the challenges of this broad range of applications.

**Degree summary**

This programme is designed to provide comprehensive training in analytical chemistry and its implementation. A thorough understanding of error analysis, data processing and data presentation will be at the foundation of this programme. The programme will contain minimum formal instruction, but emphasise self-learning and originality of thought. Students will develop and demonstrate self-direction and originality, and the independence required for continuing professional development.

Using a non-traditional approach this programme will prioritise independent learning and research. Students also participate in peer-review assessment of posters and talks. Peer assessment is an important transferable skill that is used widely in industrial and academic environments.

Emphasis will be on designing appropriate analytical methodologies and the relevant underpinning data handling, analysis and interpretation. The physics and chemistry behind state-of-the-art measurement technologies, their methods and application limitations will also be prioritised.

You can watch a YouTube video of Dr Daren Caruana talking about the ethos behind this programme.

This degree emphasises self-learning and is delivered through individual and team-based tasks. The programme will focus on developing students’ knowledge of analytical methodology, philosophy and design. Assessment is by presentations, vivas, and problem-solving coursework. Only optional modules are presented more formally with lectures and written examinations.

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**Degree structure**

**Mode:** Full-time: 1 year  
**Location:** London, Bloomsbury

Students undertake modules to the value of 180 credits. The programme consists of four core modules (90 credits), two optional modules (30 credits) and a report (60 credits).

### CORE MODULES

- Students take the following core modules (105 credits) and submit a research dissertation (60 credits).
- Analytical Strategies*
- Data analysis for Analytical Chemistry*
- Practical aspects of Analytical Chemistry*
- Literature Project for Applied Analytical Chemistry
- Transferable Skills for Chemists
- *Students take these core modules in term one and only proceed to term two and select the research project if they have achieved 50% or greater in all three of the taught core modules.

### OPTIONAL MODULES

- Students choose one of the following options:
- Mastering Entrepreneurship
- Entrepreneurship: Theory and Practice
- Numerical Methods in Chemistry
- Strategic Project Management

### DISSERTATION/REPORT

All students undertake a substantial research project selected from a range (60 credits).
Your career

Graduates will be equipped for varied employment in industry and the public sector: analytical science techniques have a very broad range of applications in many sectors, ranging from forensics to global climate change and medicine to the automotive industry.

Employability

The programme includes a module on project management offered by the UCL School of Management which will prepare students for careers in research or in analytical sciences. There are also modules on mastering entrepreneurship, and new technology ventures which will help students transform ideas into commercial entities.
**Entry requirements**

A minimum of a second-class Bachelor’s degree in a relevant discipline from a UK university or an overseas qualification of an equivalent standard.

**English language proficiency level**

If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

The level of English language proficiency for this programme is: **Standard**.

Information about the evidence required, acceptable qualifications and test providers is provided at: www.ucl.ac.uk/graduate/english-requirements

**Your application**

Students are advised to apply as early as possible due to competition for places. Those applying for scholarship funding (particularly overseas applicants) should take note of application deadlines.

When we assess your application we would like to learn:

- why you want to study Analytical Chemistry at graduate level
- why you want to study Analytical Chemistry at UCL
- what particularly attracts you to this programme
- how your personal, academic and professional background meets the demands of a challenging programme
- what you expect to get out of the programme
- where you would like to go professionally with your degree.

Together with essential academic requirements, the personal statement is your opportunity to illustrate whether your reasons for applying to this programme match what the programme will deliver.

Application fee: There is an application processing fee for this programme of £75 for online applications and £100 for paper applications. More details about the application fee can be found at www.ucl.ac.uk/prospective-students/graduate/taught/application.

**FEES AND FUNDING 2018/19 ENTRY**

- UK: £9,850 (FT)
- EU: £9,850 (FT)
- Overseas: £27,580 (FT)

The tuition fees shown are for the year indicated above. Fees for subsequent years may increase or otherwise vary. Further information on fee status, fee increases and the fee schedule can be viewed on the UCL Current Students website.

Students can be self-funded or find sponsorship from alternative sources, for instance via those shown on the UCL scholarships and funding pages.

Full details of funding opportunities can be found on the UCL Scholarships website: www.ucl.ac.uk/scholarships

**APPLICATION DEADLINE**

All applicants: 27 July 2018

Details on how to apply are available on the website at: www.ucl.ac.uk/graduate/apply

**CONTACT**

Programme Administrator

Email: pgcourses.chem@ucl.ac.uk

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**EU referendum**

For up-to-date information relating to specific key questions following the UK’s decision to leave the EU, please refer to www.ucl.ac.uk/eu-referendum

This information is for guidance only. It should not be construed as advice nor relied upon and does not form part of any contract. For more information on UCL’s degree programmes please see the UCL Graduate Prospectus at www.ucl.ac.uk/graduate