Chemistry with Data Science

University of Strathclyde

Content

In this course, you'll study core chemistry classes blended with specialist courses on coding (Python), chemical informatics, AI and machine learning, and software engineering and high-performance computing.

Year 1
You'll study foundation classes in Chemistry and Mathematics. You'll also attend a specialist class in coding, Python 101 for Chemists.

Years 2 & 3
In later years, you'll study subjects including Fundamental Inorganic, Organic and Physical Chemistry, and laboratory work increases. You will also attend specialist classes in Chemical Informatics.

Laboratory work increases to four afternoons per week, and your practical skills are enhanced with computer modelling and group exercises to develop presentational skills.

Year 4
In the final year, in addition to studying core chemistry topics, you'll specialise in data science through classes such as AI and machine learning, and software engineering and high-performance computing. The final year is also when you undertake a fully independent project researching cutting-edge chemistry.

Start Date

October

Qualification

Degree

Study Method

Full time

Award Title

BSc Hons

UCAS Code

F106

Course Length

4 years

Faculty

Faculty of Science

Department

Pure and Applied Chemistry

Entry Requirements

2027 entry requirements

Standard entry:
4 Highers at ABBB or AABC including Maths and Chemistry at B plus English at National 5. Higher English preferred. Advanced Higher Maths and Chemistry recommended for sixth year entrants.

Widening access entry:
4 Highers at ABBC or BBBB including Maths and Chemistry at B plus English at National 5. Higher English preferred. Advanced Higher Maths and Chemistry recommended for sixth year entrants.

Entry to year 2 may be possible with Advanced Highers at ABB including Maths and Chemistry.

A Foundation Apprenticeship is accepted in place of a non-essential Higher.

SCQF Level

11

Progression Routes

«ProgressionRoutes»

Combination Courses

«htmlCombinationCourse»   «htmlCombinationUCASCode»

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Website

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