Materials Chemistry with Work Placement

University of Glasgow

Venues

Gilmorehill Campus

Content

Year 1
Topics include the periodic table and main group chemistry, transition metal chemistry, organic Chemistry, chemical kinetics, states of matter, chemical energy changes, aqueous equilibria and pH, and macromolecules. You will also study other subjects in years 1 and 2.

Year 2
The topics covered include molecular thermodynamics, organic stereochemistry, quantum mechanics and chemical bonding, organometallic chemistry, main group chemistry, enols and enolates, spectroscopy, solids and surfaces, aromatic chemistry, coordination chemistry, organic synthesis, electrochemistry and applied organic chemistry.

Years 3, 4 and 5
If you progress to Honours (years 3 and 4) you will study advanced topics including nanomaterials, organic electronics and photonics, advance materials characterisation, catalysis, supramolecular and polymer chemistry, spectroscopy, electrochemistry, as well as main group and transition metal chemistry. In your final year you will undertake a research project at the frontiers of the subject with energy, organic LEDs and solar cells, or photonics applications, for example making a Li-ion battery and testing it for electrochemical performance.

Start Date

September

Qualification

Degree

Study Method

Full time

Award Title

MSci

UCAS Code

F107

Course Length

5 years

Faculty

College of Science and Engineering

Department

School of Chemistry

Entry Requirements

2027 entry requirements

Standard entry: 4 Highers at ABBB (by end S6 with min BBBB after S5) including Maths and Chemistry.

Entry to year 2 may be possible with 3 Advanced Highers at AAA including Maths and Chemistry plus Highers at BBBB.

Widening access entry: 4 Highers at ABBB or BBBB (by end S6) including Maths and Chemistry. Completion of pre-entry programme is necessary.

SCQF Level

11

Progression Routes

«ProgressionRoutes»

Combination Courses

«htmlCombinationCourse» «htmlCombinationUCASCode»

Address

University Avenue
Glasgow
G12 8QQ

Website

www.gla.ac.uk