Chemical Engineering

Heriot-Watt University

Venues

Edinburgh Campus

Content

Year 1
Provides a general introduction to the subject, emphasising the role of basic mathematics and science. Courses introduce basic techniques and principles of chemical engineering including: Mass Balances; Basic Thermodynamics and Energy Balances. An awareness of professional and personal development forms a critical part of the teaching in this year.

Year 2
Important themes focus on an understanding of the movement of fluids, heat transfer and how materials behave. Principal components include Fluid Mechanics; Heat Transfer; Mass Transfer and Thermodynamics. A mini design project is also included.

Year 3
Provides opportunities to analyse key operations in the industry, particularly the processing and separation of gases and liquids. In parallel, there are courses looking at chemical reactor theory, how processes are controlled and the prediction of physical behaviour. Material on Safety, Sustainability and Economics is consolidated in a group-based project.

Year 4
A central theme is the advanced analysis of key processing operations and their control. Specialist topics include Energy Efficiency, Safety and Sustainability. A group-based design project is also undertaken.

Start Date

September

Qualification

Degree

Study Method

Full time

Award Title

BEng Hons

UCAS Code

H800

Course Length

4 years

Faculty

School of Engineering and Physical Sciences

Department

Chemical Engineering

Entry Requirements

2022 entry requirements:
Standard entry: 4 Highers at AAAB including Maths and Chemistry at AA plus English at National 5.

Widening access entry: 4 Highers at BBBC including Maths and Chemistry at BB plus English at National 5.

For entry to Level 2 you would require 3 Advanced Highers at AAB including Maths and Chemistry at AA plus 4 Highers at AAAB.

SCQF Level

10

Progression Routes

«ProgressionRoutes»

Combination Courses

«htmlCombinationCourse» «htmlCombinationUCASCode»

Address

Edinburgh
EH14 4AS

Website

www.hw.ac.uk