

## Chemical Engineering (Year 1) (in conjunction with University of Strathclyde)

Forth Valley College

### Venues

Falkirk Campus

### Content

Students undertaking this programme complete the 1 year HNC Chemical Process Technology programme at Forth Valley College followed by guaranteed progression to year 2 of BEng Chemical Engineering at University of Strathclyde.

During the HNC Year students study the fundamental principles of chemical engineering and chemistry and will also get the chance to develop practical skills. Upon completion of the HNC students transfer to year 2 of BEng Chemical Engineering at Strathclyde University.

In years 2 and 3 topics include Material and Energy Balances, Thermodynamics, Heat Transfer, Mass Transfer and Fluid Flow. Engineering practice and chemical engineering laboratory work are also introduced along with finance and business studies. The principles taught in Years 2 and 3 are applied to the most important unit operations used in the chemical and process industries, including distillation, gas absorption and adsorption, evaporation, crystallisation, filtration and drying. Reactor design, biochemical engineering and food processes are also covered. Laboratory work continues and you will carry out two small Chemical Engineering design projects to apply your growing knowledge to a practical problem.

In year 4 students carry out an individual research project and submit a thesis.

### Start Date

August

### Qualification

Degree

### Study Method

Full time

### Award Title

BEng Hons

### Course Length

1 year

## Department

Engineering

## Entry Requirements

4 Highers at BBBB including Maths, Chemistry and preferably Physics (Foundation Apprenticeship Engineering or Scientific Technologies accepted in place of one non-essential Higher). Entry subject to interview.

## SCQF Level

7

## Progression Routes

MEng Chemical Engineering at the University of Strathclyde

## Address

Grangemouth Road  
Falkirk  
FK2 9AD

## Website

[www.forthvalley.ac.uk](http://www.forthvalley.ac.uk)