

FOUNDATION CERTIFICATE IN ENGINEERING

COURSE OPTIONS:

2 terms

Entry requirements: completion of high school†, and at least UKVI IELTS 5.5 (minimum 4.5 in all skills)

Course start:

September 2018, January 2019

Course length: 7 to 9 months

Degree entry: September 2019

Tuition fees: £16,580

3 terms: Enhancement

Study extra modules to further enhance your academic skills

Entry requirements: completion of high school†, and at least UKVI IELTS 5.5 (minimum 4.5 in all skills)

Course start:

September 2018, October 2018*

Course length: 10 to 11 months

Degree entry: September 2019

Tuition fees: £17,988

3 terms: Maths and Science

Study extra modules to develop basic skills in Maths and Science

Entry requirements: completion of high school†, and at least UKVI IELTS 5.5 (minimum 4.5 in all skills)

Course start: September 2018

Course length: 11 months

Degree entry: September 2019

Tuition fees: £17,988

† Including equivalent of GCSE Maths at grade C/4 or above.

* 2.5-term course – students join the 3-term Foundation Certificate, but start half a term later.

Lower IELTS score?

If your English language level is lower than the above, but you have at least UKVI IELTS 4.0 in all skills, you can take a course that includes Extended English and Skills (EES). Contact us for more details.

CORE MODULES

All students on this Foundation Certificate will take:

Engineering 1

- Engineering principles including study of statics and dynamics

Engineering 2

- Further engineering principles including thermofluids and electronics

Foundation Mathematics

- Algebra, geometry and trigonometry
- Vectors
- Differentiation and integration

Applied Mathematics

- Mathematical modelling and reasoning skills

Fundamentals of Science

- Gases, liquids and solids
- The periodic table, protons, attractions and repulsions
- Chemical energy changes

Language for Study 1

- Vocabulary, grammar and pronunciation
- Discussion and short essays

Language for Study 3

- Complex arguments in English
- Giving evidence of research
- Preparation for exit language exams

Physical Sciences

- Optics, waves and lasers
- Electronics and magnetism
- Thermal physics; thermal and mechanical properties of matter

Skills for Study for Science and Engineering

- Researching and analysing information to a high standard
- Writing technical lab reports
- Presentation, note-taking and essay-writing skills

3-TERM MODULES

If you're studying a 3-term Foundation Certificate, you'll also take either Enhancement modules or Maths and Science modules.

3-term Enhancement modules

Introduction to British Society and Culture

- UK life and culture
- British society and history

Introduction to Cultural Studies

- Problems and issues surrounding cross-cultural communication

Personal Development and Pre-Study Skills

- Advanced skills related to your course
- Personal development skills

Refresher Mathematics and Statistics for Foundation Students

- Application of statistics
- Numbers and probability
- Algebra, non-linear equations and differentiation

— OR —

3-term Maths and Science modules

Introduction to Academic Skills for Science and Engineering

- Vital skills required for Science and Engineering

Preparatory Science

- Essential subject knowledge related to biology, chemistry and physics

Preparatory Mathematics

- Algebra, geometry, trigonometry, graphs and transformations
- Applications of these topics



Degree possibilities

This Foundation Certificate can lead to a range of undergraduate degree subjects at the University of Glasgow. For example, you could progress to:

- Aeronautical Engineering
- Aerospace Systems
- Biomedical Engineering
- Civil Engineering
- Electronic Engineering
- Mechanical Engineering
- Product Design Engineering

For a full list of degree options, see page 40.

Career possibilities

This educational route can open up many career options for you. You could become a:

- Aeronautical Engineer
- Astronomer
- Automotive Engineer
- Biomedical Engineer
- Building Control Surveyor
- Civil Engineer
- Development Scientist
- Electronic Engineer
- Engineering Manager
- Flood Risk Scientist
- IT Consultant
- Mechanical Engineer
- Petroleum Engineer
- Product Designer
- Quality Manager
- Technical Writer

Have any questions?

Contact our team for help:
kaplanpathways.study/contact-glasgow