

# FOUNDATION CERTIFICATE IN SCIENCE

## 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 and Science 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:

### Language for Study 1

- Vocabulary, grammar and pronunciation
- Discussion and short essays

### Language for Study 3

- Complex arguments in English
- Giving evidence of research

### Skills for Study 1†

- Presentation, note-taking and essay-writing skills

### Skills for Study 2†

- Analytical skills in written and spoken information

### Skills for Study 3†

- Researching and analysing information to a high standard
- Structuring written and oral arguments

## PATHWAY MODULES

You'll also study modules in one of the following pathways. Your pathway is determined by your degree subject at the University of Glasgow.

### Biological Sciences pathway

#### Biochemistry of Life

- Organic chemistry and biological science
- Laboratory skills

#### Biological Sciences

- Plant structure and function
- Genetic and cellular principles
- Animal reproduction, metabolism and immunology

— OR —

### Chemistry pathway

#### Biochemistry of Life

- Organic chemistry and biological science
- Laboratory skills

#### Foundation Mathematics

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

— OR —

#### Foundation Mathematics

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

#### Scientific Principles and Enquiry

- Chromatography, titration and transition
- Metals, compounds and catalysis

#### Physical Sciences

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

#### Scientific Principles and Enquiry

- Chromatography, titration and transition
- Metals, compounds and catalysis

### Computing Science pathway

#### Foundation Mathematics

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

#### Applied Mathematics

- Mathematical modelling and reasoning skills
- Computing and computational processes

#### Programming Fundamentals

Computing and computational processes

- Basic programming concepts
- Testing techniques and problem solving methodologies

— OR —

### Geography and Earth Sciences pathway

#### Biological Sciences

- Plant structure and function
- Genetic and cellular principles
- Animal reproduction, metabolism and immunology

#### Geography and Earth Science 1

- Geography and Earth Science principles
- Earth system development and processes

— OR —

### Maths and Physics pathway

#### Engineering 1

- Engineering principles including 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

#### Further Programming

- Basic programming concepts
- Common programming problems

#### 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

#### Geography and Earth Science 2

- Earth history, the evolution of life and natural environments
- Natural resources exploitation and environmental hazards

#### Introduction to Sociology

- Sociology and sociological approaches to the study of contemporary societies
- Global inequalities, race, gender and religion

#### 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, progression degrees and career options**

See the next page for more information.

‡ If you're taking the Computing Science pathway, or the Maths and Physics pathway, you'll study Skills for Study for Science and Engineering instead of Skills for Study 1, 2 and 3.

# FOUNDATION CERTIFICATE IN SCIENCE (CONTINUED)

## 3-TERM MODULES

If you're studying a three-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 Mathematics

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

#### Preparatory Science

- Essential subject knowledge related to biology, chemistry and physics



## 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:

- Anatomy
- Biology
- Chemistry
- Computer Science
- Environmental Science
- Genetics
- Geography
- Mathematics
- Neuroscience
- Pharmacology
- Physics
- Software Engineering
- Statistics

**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:

- Biological Scientist
- Biomedical Scientist
- Chemist
- Clinical Biochemist
- Computer Games Developer
- Environmental Scientist
- Forensic Scientist
- Mathematician
- Medical Physicist
- Microbiologist
- Neuroscientist
- Pharmacologist
- Scientific Researcher
- Software Engineer
- Statistician

Have any questions?

Contact our team for help:

[kaplanpathways.study/contact-glasgow](https://kaplanpathways.study/contact-glasgow)