

# FOUNDATION CERTIFICATE IN SCIENCE AND ENGINEERING

## COURSE OPTIONS:

### 2 TERMS

**Entry requirements:** successful 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:** 6 to 9 months

**Degree entry:** September 2019

**Tuition fees:** £16,500

### 3 TERMS: ENHANCEMENT

Study extra modules to further enhance your academic skills

**Entry requirements:** successful 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:** £18,660

### 3 TERMS: MATHS AND SCIENCE

Study extra modules to develop basic skills in Maths and Science

**Entry requirements:** successful 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:** £18,660

#### Lower IELTS score?

If your English language level is lower than that listed 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 about EES.

## CORE MODULES

ALL STUDENTS ON THIS FOUNDATION CERTIFICATE WILL TAKE:

### Language for Study 2

- English skills in listening, reading, writing and speaking

### 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 WESTMINSTER.

### LIFE SCIENCES PATHWAY

#### Biological Sciences

- Reproduction, development and metabolism in animals
- Genetic and cellular principles

#### Fundamentals of Science

- States of matter
- Trends and patterns in the periodic table
- Chemical bonding, chemical energy changes and solutions

#### Introduction to Social Sciences

- Principles of anthropology, sociology, economics and political science

#### Statistics

- Applying statistical knowledge and techniques to real-world problems

— OR —

### SCIENCE AND ENGINEERING PATHWAY

#### Basic Engineering

- Fluid mechanics
- Thermodynamics
- Engineering materials and electronics

#### Foundation Mathematics

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

#### Applied Mathematics

- Mathematical modelling and reasoning skills

#### Physical Sciences

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

## 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 Academic Skills

- Key academic skills
- Digital literacy and personal development skills

#### Introduction to British Society and Culture

- UK life and culture
- British society and history

PLUS ONE OF THE FOLLOWING (DEPENDING ON YOUR PATHWAY):

Life Sciences pathway students:

#### Basic Numeracy and IT Skills

- General IT skills
- Key software such as Microsoft Office

Science and Engineering pathway students:

#### Preparatory Mathematics

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

— OR —

### 3-TERM MATHS AND SCIENCE MODULES

#### 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 Westminster. For example, you could progress to:

- Architectural Technology
- Biochemistry
- Biological Sciences
- Biomedical Sciences
- Building Engineering
- Construction Management
- Computer Games Development
- Computer Science
- Nutrition
- Pharmacology
- Property
- Psychology
- Surveying

For a full list of degree options, see page 38.

## CAREER POSSIBILITIES

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

- Biochemist
- Biological Scientist
- Biomedical Scientist
- Civil Engineer
- Computer Games Developer
- Financial Analyst
- IT Consultant
- Nutritionist
- Pharmacologist
- Property Developer
- Psychologist
- Scientific Researcher
- Software Engineer
- Surveyor

## HAVE ANY QUESTIONS?

Contact our team for help:

► [kaplanpathways.study/contact-kicl-westminster](https://www.kaplanpathways.study/contact-kicl-westminster)