

Foundation Certificate

# Physics, Mathematics, Computing and Electronic Engineering

at the University of York International Pathway College

## COURSE OPTIONS

### 2 TERMS

**Entry requirements:** equivalent of UK year 12\*, and at least UKVI IELTS 5.5 (minimum 4.5 in all skills)

**Course start:** September 2018, January 2019

**Course length:** 7 months

**Degree entry:** September 2019

**Tuition fees:** £17,180

### 3 TERMS

*Study additional modules to better prepare you for university. Modules are designed to fit to your English language level.*

**Entry requirements:** equivalent of UK year 12\*, and at least UKVI IELTS 5.0 (minimum 4.0 in all skills)

**Course start:** September 2018

**Course length:** 10 months

**Degree entry:** September 2019

**Tuition fees:** £18,255

\* Including good grades in Maths at high school level.

## WHAT YOU'LL STUDY

### CORE MODULES

ALL STUDENTS ON THIS FOUNDATION CERTIFICATE WILL TAKE:

#### Advanced Mathematics

- Use mathematical skills to solve problems in physical sciences
- Explore calculus, matrices, vectors, algebra and trigonometry

#### Language and Study Skills 2

- Developing academic English knowledge
- Applying academic style to written and spoken work

#### Physics

- Learn to use physics to explain common phenomena
- Explore subatomic processes, fields, properties of materials, electricity and mechanics

#### Robotics, Programming and Electronics

- Design and programme a robot
- Design and build simple electronic circuits

### 3-TERM MODULES

IF YOU'RE STUDYING A 3-TERM FOUNDATION CERTIFICATE, YOU'LL ALSO TAKE:

#### Core Science

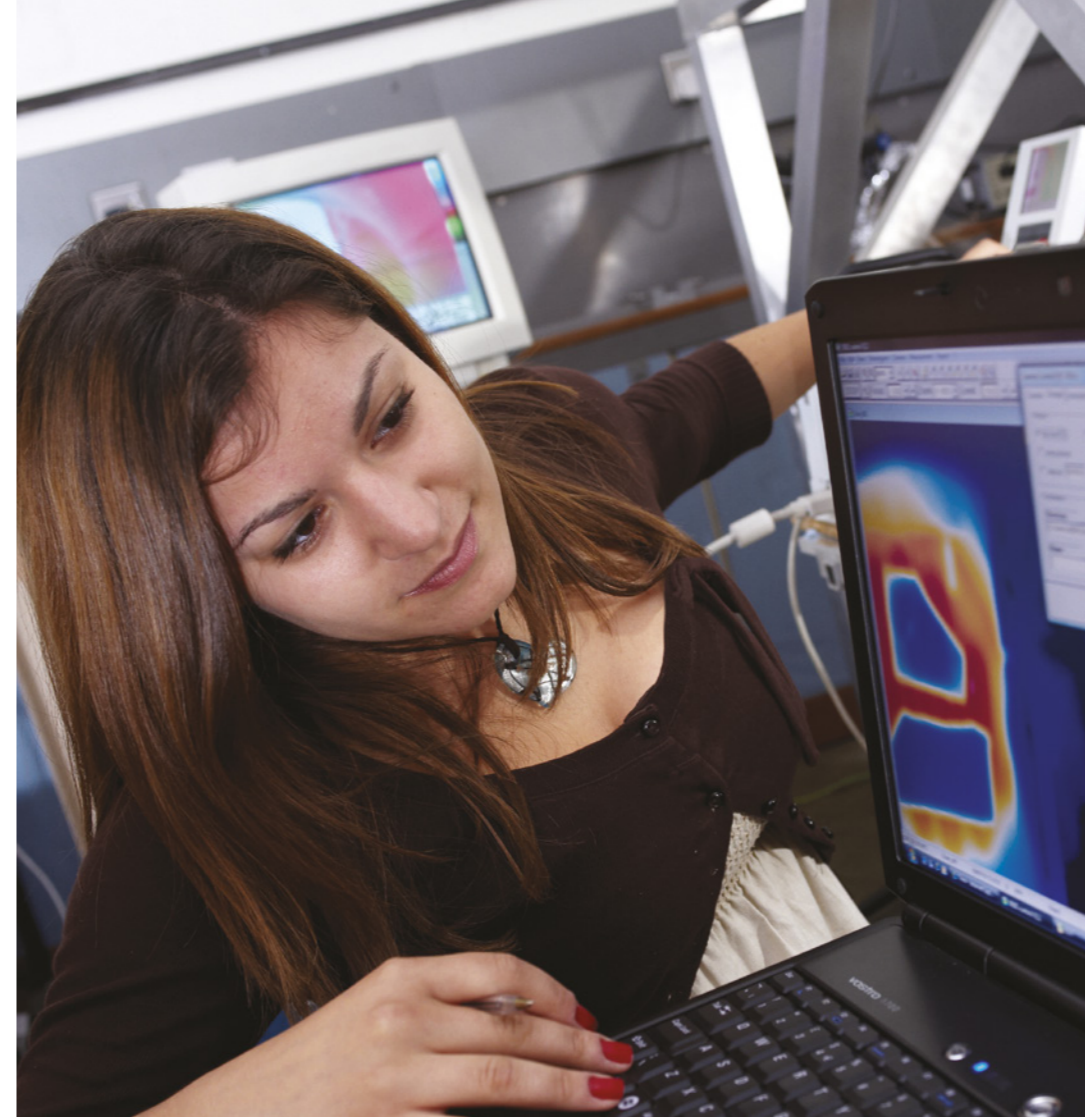
- Learn about key scientific concepts and principles
- Explore the most important topics in biology, chemistry and physics

#### Foundation Mathematics

- Understand the core concepts of mathematics, and mathematical skills
- Learn algebra, calculus and trigonometry

#### Language and Study Skills 1

- Speaking, reading, writing and listening in an academic context
- Vocabulary, grammar and pronunciation



## DEGREE POSSIBILITIES

This Foundation Certificate can lead to a wide variety of degree subjects at the University of York. You could progress to:

- Astrophysics
- Communications Engineering
- Computer Engineering
- Computer Science
- Electronic Engineering
- Mathematics
- Physics
- Statistics

For a full list of degree options, see page 48.

## CAREER POSSIBILITIES

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

- Astrophysicist
- Computer Engineer
- Cybersecurity Consultant
- Data Scientist
- IT Consultant
- Mathematician
- Physicist
- Systems Engineer

## HAVE ANY QUESTIONS?

Contact our team for help:  
[kaplanpathways.study/contact-york](mailto:kaplanpathways.study/contact-york)