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## Foundation Certificate Mathematics, Computing and Electronic Engineering at the University of York International Pathway College: module details

### For degree entry from September 2020

ALL STUDENTS WILL STUDY THE FOLLOWING MODULES TO GAIN A SOLID BASE OF SKILLS:

- **Advanced Mathematics**
  - **Language and Study Skills 2**
  - **Physics**
  - **Robotics, Programming and Electronics**
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### EXTRA MODULES TO HELP YOU REACH UNIVERSITY: 3-TERM COURSE

IF YOU'RE TAKING A 3-TERM COURSE, YOU'LL STUDY THE FOLLOWING EXTRA MODULES TO BE BETTER PREPARED FOR UNIVERSITY. THESE MODULES ARE DESIGNED TO FIT YOUR ENGLISH LANGUAGE LEVEL.

- **Core Science**
  - **Foundation Mathematics**
  - **Language and Study Skills 1**
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### MODULE SUMMARIES – DETAILS OF WHAT YOU'LL STUDY

#### **Advanced Mathematics**

Learn the mathematical skills needed for economics and actuarial science, and explore calculus, matrices, vectors, algebra and trigonometry.

#### **Language and Study Skills 2**

Develop academic English knowledge, and apply academic style to written and spoken work.

#### **Physics**

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

#### **Robotics, Programming and Electronics**

Design and programme a robot, and design and build simple electronic circuits.

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### EXTRA MODULES FOR 3-TERM COURSE

#### **Core Science**

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

#### **Foundation Mathematics**

Understand core concepts of mathematics, and learn algebra, calculus and trigonometry.

#### **Language and Study Skills 1**

Learn how to speak, read, write and listen in an academic context, and improve your vocabulary, grammar and pronunciation.

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Note: this information refers to courses that will run in the 2019-20 academic year, and is correct at the time of publication. Published October 2018.