

Foundation Certificate in Science and 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, February 2019

Course length: 6 to 9 months

Degree entry: September 2019

Tuition fees: £12,400

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: £13,500

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, January 2019

Course length: 8 to 11 months

Degree entry: September 2019

Tuition fees: £13,500

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.

Core modules

All students on this Foundation Certificate will take:

Combined Skills for Study 1 and 2

- Presentation, note-taking and essay-writing skills
- Analytical skills in written and spoken information

Language for Study 2

- English skills in listening, reading, writing and speaking

Language for Study 3

- Complex arguments in English
- Synthesising academic sources

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 Nottingham Trent University.

Life Sciences pathway

Biochemistry of Life

- Essential concepts in biochemistry
- Cellular processes
- Laboratory skills

Introductory Biology

- Structure of living organisms
- Organism development and metabolism
- Survival and population growth

Fundamentals of Science

- States of matter
- Chemical bonds and reactions
- Solutions to problems

Statistics

- Applying statistical knowledge and techniques to real-world problems

— OR —

Mathematics pathway

Foundation Mathematics

- Application of mathematical knowledge
- Mathematical skills fundamental to science and engineering

Basic Engineering

- Key engineering principles
- Mathematical knowledge and skills in solving basic engineering problems

Applied Mathematics

- Mathematical skills and knowledge
- Advanced mathematical modelling and reasoning skills

Statistics

- Applying statistical knowledge and techniques to real-world problems

— OR —

Physical Sciences pathway

Foundation Mathematics

- Application of mathematical knowledge
- Skills fundamental to science and engineering

Basic Engineering

- Key engineering principles
- Mathematical knowledge and skills in solving basic engineering problems

Applied Mathematics

- Mathematical skills and knowledge
- Advanced mathematical modelling and reasoning skills

Fundamentals of Science

- States of matter
- Chemical bonds and reactions
- Solutions to problems

3-term modules

If you're studying a 3-term Foundation Certificate, you'll also take a selection of the following modules, depending on your pathway:

Introduction to British Society and Culture

- UK life and culture
- British society and history

Preparatory Mathematics and Information Communication Technology

- Basic ICT and mathematics skills
- Effective use of computers at degree level

Personal Development and Pre-Study Skills

- Study, numeracy and personal development skills

Preparatory Science

- Essential subject knowledge related to biology, chemistry and physics

Preparatory Mathematics

- Basic mathematics skills
- Application of mathematical skills to science and engineering



Degree possibilities

This Foundation Certificate can lead to a range of undergraduate degree subjects at NTU. You could progress to:

- Animal Sciences
- Biology
- Chemistry
- Civil Engineering
- Computer Science
- Electronic Engineering
- Environmental Science
- Mathematics
- Mechanical Engineering
- Nutrition
- Pharmacology
- Sport Engineering
- Sports Science

For a full list of degrees, see page 44.

Career possibilities

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

- Biomedical Scientist
- Civil Engineer
- Ecologist
- Nature Conservation Manager
- Nutritionist
- Pharmacologist
- Research Scientist
- Sport And Exercise Psychologist
- Sports Coach
- Statistician
- Vet Technician

Interested in a degree in Petroleum Engineering?

We offer a pathway to bachelor's degrees in Petroleum Engineering. For more details, contact your Kaplan representative or visit: kaplanpathways.study/petroleum

Have any questions?

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

[†] Including equivalent of GCSE Maths and Science at grade C/4 or above.

* 2.5-term course — students join the 3-term Foundation, but begin half a term later.