



ONCAMPUS
Cambridge Education Group

Undergraduate Foundation Programme Engineering and Sciences

Programme details

Who is this programme designed for?

This programme is designed to prepare international students, who have completed senior secondary education, for entry to undergraduate studies at one of our partner universities. All students who successfully complete the UFP are guaranteed placement on a suitable programme of undergraduate study. The UFP is set at level 3, which is equivalent to A-level standard in the UK.

How long will I study for?

This programme lasts one academic year (nine months). The year is divided into three terms of seven to eight teaching weeks and one reading week. You will undertake up to 25 hours of classroom-based study per week.

What will I study?

This programme includes English and three academic subject modules. English will be integrated into the teaching of academic subjects, as well as being taught separately if you need additional support to develop your English language.

There are five academic pathways to choose from and you will study the pathway most suited to your chosen progression degree. Academic skills relevant to the specific subject area will be taught to fully prepare you for university study. The pathways are: Business, Economics, Finance and Management, Engineering and Sciences, Humanities, Law and Social Sciences, Life Sciences and Art and Design.

How will I be assessed?

You will be assessed at regular intervals throughout the programme to ensure you are making the progress required to successfully complete the programme. Full assessment of the programme will take place in the final term. Assessment methodologies are aligned to those that will be experienced in the University environment, and include project work, essays, presentations and unseen examinations.



- **Pure Mathematics**

This module is designed to cover all the basic elements of pure mathematics. The curriculum includes topics such as: Calculus, Vectors, Matrices and Complex Numbers, Proof, Differential Equations, Mechanics and Discrete Mathematics. You will also take time to complete independent study both individually as well as group studies. By the end of the module, you will be competent in pure mathematics skills and have been equipped with an array of independent skills that you will find very useful in your future studies.

- **Physical Sciences**

This module provides you with a good foundation of physical sciences knowledge but also the ability to develop independent learning skills which you will find useful in your university studies.

During the course, you will cover a range of topics such as: Explorations of the Earth

and its place in the Universe; The Physics of Motion, Energy and Light; The Atomic Basis of Matter and The Fundamentals of Chemistry.

- **Skills for Science**

Progress in the sciences is made through scientific experimentation and interpretation of the results. In order to complete this accurately and safely it is important to understand experimental design and methodology and how to analyse results. This module aims to prepare you for laboratory work, develop your data analysis skills and teach you how to report and critique your findings.

The module will also introduce you to regulation of scientific and medical research and medical ethics. By the end of the course you should be able to draw conclusions from data, organise facts and figures in a logical way, test hypotheses in logical ways to find answers, and see how a larger situation can be affected by smaller activities.

Sample timetable

	9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5
Mon	EAP and English test prep	EAP and English test prep		Lunch	Subject 2	Subject 2		Personal tutorial
Tues		Subject 1	Subject 1	Lunch	EAP and English test prep	EAP and English test prep		
Wed	Skills for ...	EAP and English test prep	EAP and English test prep	Lunch	Subject 2	Subject 2		
Thur		Subject 1	Subject 1	Lunch	EAP and English test prep	EAP and English test prep		Skills for ...
Fri	Subject 2	Subject 2	Skills for ...	Lunch	Subject 1	Subject 1	EAP and English test prep	EAP and English test prep



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