

Further Maths

Is this course for me?

This course will appeal to those students who:

- Enjoy mathematics and are interested in studying a mathematical subject beyond A level
- Have a natural flair for the subject with strong algebra skills.

Units of Study

Further Pure (Year 1)

- ◆ Matrices
- ◆ Mathematical Proof
- ◆ Complex Numbers
- ◆ Vectors
- ◆ Roots of equations
- ◆ Calculus

Further Statistics (Year 1 & 2)

- ◆ Mean and Expectation
- ◆ Hypothesis Testing
- ◆ Poisson Distribution
- ◆ Chi Squared Testing
- ◆ Binomial Distribution

Decision 1 (Year 1 & 2)

- ◆ Algorithms
- ◆ Critical Path Analysis
- ◆ Graphs
- ◆ Linear Programming
- ◆ Networks

Further Pure (Year 2)

- ◆ Further Algebra and Functions
- ◆ Hyperbolic Functions
- ◆ Advanced Differential Equations
- ◆ Calculus
- ◆ Polar Coordinates

Entry Requirements

To follow an A Level course in this subject, students must have followed a higher level GCSE course in mathematics. Students are not recommended to take this course unless they have gained a level 8 at GCSE.

What will this course prepare me for?

A level in Further Maths is essential for any student wishing to study maths at university. The majority of science and engineering courses also have a substantial mathematical content and Further Maths will provide an excellent foundation for these subjects. Further Maths is a challenging A level which commands the respect of employers in many different fields.