



AS/A2 Further Mathematics

Examination Board: Edexcel

The study of Further Mathematics introduces some less familiar areas to the student. This qualification can only be studied in conjunction with GCE Mathematics. An increasing number of universities now require a level of Further Mathematics to study some courses, for example Economics and Engineering .

There are three Further Pure modules with the following content:

FP1

- Complex Numbers
- Numerical Solutions
- Coordinate systems
- Matrix algebra
- Series
- Mathematical proof by Induction

FP2

- Inequalities
- Further Complex Numbers
- Differential equations
- MacLaurin and Taylor series
- Polar coordinates

FP3

- Hyperbolic Functions
- Further coordinate systems
- Differentiation of Hyperbolic and inverse trigonometric functions
- Integration of Hyperbolic and inverse trigonometric functions
- Vectors
- Further Matrix algebra

For the AS qualification in Further Mathematics, three modules are required. FP1 is a compulsory element. The remaining two modules may be taken from:

FP2, FP3, M1, M2, D1, D2, S1, with the exception of applied modules studied as part of the Mathematics qualification. (See Mathematics qualification for details of the applied subjects.)

For the A2 qualification in Further Mathematics, six modules are required.

Two of FP1, FP2 and FP3, are compulsory elements, with the remaining 4 units to be selected from:

FP2, FP3, M1, M2, D1, D2, S1, with the exception of applied modules studied as part of the Mathematics qualification. (See Mathematics qualification for details of the applied subjects.)

Assessment method: All units consist of one 1½ hr written examination

For further information on the qualification or potential/ eligibility to study the course speak to Mrs Telfer and/or Mrs Wickman in the Mathematics department.