A Level Further Maths

Exam board & Specification Number	Edexcel 9FM0
Qualification Accreditation Number (QAN)	**6031/1449/0**
Link to Course Details Webpage	[Click Here](#)
Duration, Delivery and Study Mode	Two Years Full Time Day Time Study
Start Date (not flexible) and Campus	01 September from Stanley Avenue Campus

Course Details: Who is this Course for?

This course is for students progressing from GCSE into Level 3 (A Level or Equivalent) studies, with a view to study this subject or related subjects at degree level.

Course Details: What Will You Learn?

Year 1	**Unit 1 – Core Pure Mathematics** Topics that you will study include: Proof, Complex numbers and Argand diagrams, Matrices, Further algebra and functions, Further calculus, and Further vectors. **Unit 2 – Options 2B (Further Pure Mathematics 1 and Further Decision 1)** Students will study Coordinate systems, inequalities Vectors , Conic Section 1, Methods in Calculus , Numerical Methods and Inequalities in FP1 and Algorithms, Graphs and Networks, Route Inspections, Linear Programming and Critical path Analysis in D1.
Year 2	**Unit 1: Core Pure Mathematics 1:** As well as revision of Year 1 topics, other topics you will study include: Further Complex Numbers, Series, Methods in Calculus, Volume of Revolutions, Polar Coordinates, Hyperbolic Functions, Methods in differential equations, and Modelling with differential equations. **Unit 2: Core Pure Mathematics 2:** As well as revision of Year 1 topics, other topics you will study include: Further Complex Numbers, Series, Methods in Calculus, Volume of Revolutions, Polar Coordinates, Hyperbolic Functions, Methods in differential equations, and Modelling with differential equations. **Unit 3: Further Pure Mathematics 1**: As well as revision of Year 1 topics, other topics you will study include: Further conics, Taylor Series, further calculus,, Methods in differential equations, Polar coordinates and reducible differential equations. **Unit 4: Further Decision 1:** As well as revision of Year 1 topics, other topics you will study include: Simplex Algorithm and The Travelling Salesman

Course Details: How will you be Assessed?

These are the Unit Codes and their percentage weighting at A- Level:

Paper 1: 9FMO/01 [25%]	Assessed by a 1.5 hour public examination in the Summer Term.
Paper 2: 9FMO/02 [25%]	Assessed by a 1.5 hour public examination in the Summer Term
Paper 3: 9FMO/3A [25%]	Assessed by a 1.5 hour public examination in the Summer Term
Paper 3: 9FMO/3D [25%]	Assessed by a 1.5 hour public examination in the Summer Term

Course Details: Entry Requirements

Please see our [webpage](#) for details of our course entry requirements.
Students must achieve a D grade or higher at the end of Year 12 in order to progress into Year 2 of this course.

Progression Information and Useful Links on Page 2

Additional Course Information

Course Details: How will you Learn?

Delivery Mode:
- Classroom based teaching
- Flipped Learning (independent learning)

Course Details: Equipment / Materials you will need

- Scientific Calculator
- Graph Paper, Writing Paper, Pencils and Pens
- Maths Sets including Ruler, Compass, Protractor
- All other equipment will be provided to you by the school

How can I prepare for and explore this course further?

- Glossary of Technical Terminology
- Recommended Text Books
- Past Exam Papers
- Related Articles
- VIP Zone

Careers & Progression (Where Next)?

Career ideas and Progression route:

Level 3 qualifications in Further Mathematics will enable students to enter degree courses related to engineering, data analysis, architecture and computing.

Click here for information on Careers in Mathematics