**MATHEMATICS ADVANCED HIGHER**

**CONTENT**

The course comprises three units:

Unit 1 covers partial fractions, differential and integral calculus, and differential equations.

Unit 2 covers binomial theorem, complex numbers, sequences and series, mathematical proof and applications of calculus.

Unit 3 covers matrices and systems of equations, vectors, geometry of complex numbers, number theory and further proofs.

**INTERNAL ASSESSMENT**

There will be an assessment at the end of each unit.

**EXTERNAL ASSESSMENT**

There will be an examination covering the work of all three units at the end of the course.

**HOMEWORK**

Students should expect an assignment at the end of each learning outcome and there will be a requirement to do some self-study to complete the course fully.

**ENTRY REQUIREMENTS**

Higher Mathematics (at least grade C) is essential.