

Why choose this course?

Mathematics has played a central role in the history and development of human civilisation. It is the tool and language of many diverse disciples and underpins all of science. Maths has a key role in subjects as diverse as medicine, computer technology, space exploration and music and is a universal language, understood across the planet whilst, at the same time, surrounding us in our daily lives.

Undoubtably, Maths will play a pivotal role in shaping our society in the future.

Universities value Maths and it is a pre-requisite subject for a huge number of degrees. People who have studied Maths/ Further Maths have an excellent choice of careers, many of which involve very wellpaid professions.

Web Links

www.uplearn.com

www.mathscareers.org.uk

qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html

What does the course involve?

Paper 1: Pure Mathematics *Paper code: 9MA0/01 Paper 2: Pure Mathematics *Paper code: 9MA0/02

Written examination: 2 hours 33.33% of the qualification 100 Marks

Content overview

- Topic I Proof
- Topic 2 Algebra and functions
- Topic 3 Coordinate geometry in the (x, y) plane
- Topic 4 Sequences and series
- Topic 5 Trigonometry
- Topic 6 Exponentials and logarithms
- Topic 7 Differentiation
- Topic 8 Integration
- Topic 9 Numerical methods
- Topic 10 Vectors

Paper I and Paper 2 may contain questions on any topics from the Pure Mathematics content.

Student must answer all questions.

Calculators can be used in assessments.

Paper 3: Statistics and Mechanics *Paper code: 9MA0/03

Written examination: 2 Hour 33.33% of the qualification 100 Marks Content overview

Section A: Statistics

- Topic I Statistical sampling
- Topic 2 Data presentation and interpretation
- Topic 3 Probability
- Topic 4 Statistical distributions
- Topic 5 Statistics hypothesis testing

Section B: Mechanics

- Topic 6 Quantities and units in mechanics
- Topic 7 Kinematics
- Topic 8 Forces and Newton's laws
- Topic 9 Moments

Paper 3 will contain questions on topics from the Statistics content in Section A and Mechanics content in Section B. Students must answer all questions.

Calculators can be used in the assessment.

Possible career pathway

Mathematics is a well-regarded discipline by employers because of its intellectual rigour, so it has a really wide range of career outlets. Mathematics graduates are in high demand for their ability to think logically and precisely, for their problemsolving and analysis skills, as well as for their facility with numbers.

Note: This is our current offer which is subject to change