LEVEL 3 MATHEMATICS

QUALIFICATION: **Core Maths - Level 3 Certificate Mathematical Studies**

Examination Board: **AQA**

What do I need to know or be able to do before taking this course?

Students should have a grade 4 or above in GCSE Mathematics. The course helps to develop students' mathematical skills and thinking and supports courses such as A-level Psychology, Sciences and Geography as well as technical and vocational qualifications. The course has the same UCAS points as an AS level.

What will I learn in Core Maths?

AQA Level 3 Certificate Mathematical Studies builds on the knowledge, understanding and skills established in GCSE Mathematics.

This qualification will enable students to:

- Study a mathematics curriculum that is integrated with other areas of their study, work or   interest leading to the application of mathematics in these areas
- Develop mathematical modelling, evaluating and reasoning skills
- Solve problems some of which will not be well defined and may not have a unique solution
- Solve substantial and real life problems encountered by adults
- Use ICT as an exploratory tool for developing mathematical understanding when solving problems
- Develop skills in the communication, selection, use and interpretation of their mathematics
- Enjoy mathematics and develop confidence in using mathematics

What kind of student is this course suitable for?

This course will appeal to students who:

- Enjoy solving mathematical problems and applying their mathematical skills to solve real life problems
- Want a course that will complement other AS and A levels
- Want to build their confidence and competence in applying mathematical techniques to solve a range of problems that will prepare them for further study and future employment within a broad range of academic, professional and technical fields

What is covered on the Level 3 course?

The subject is divided into compulsory and optional content.

Compulsory Content

Analysis of data: understanding and application of statistical techniques, interpreting data and drawing conclusions in the solution of problems.

Maths for personal finance: numerical calculations, percentages, interest rates, repayments and cost of credit, graphical representation, taxation and solution to financial problems.

Estimation: ideas concerning the formulation of mathematical models

Critical Analysis: use given data and models and be mathematically critical of them

<u>Optional Content</u>

Statistical Techniques: Normal distribution, probabilities and estimation and correlation and regression,

There are two written examinations of 1 hour 30 minutes.

Paper 1 covers the compulsory content
Paper 2 covers the optional content

What could I go on to do at the end of my course?

The course will support you through further/higher education and learned skills will be useful in future employment.