General Enquiries
Tel: 0161 886 7070
Email: info@trafford.tscg.ac.uk Website: trafford.tscg.ac.uk

A Level in Mathematics

Location	Altrincham Campus
Course Type	College 16-18
Department	A Levels
Start Date	Monday 2nd September 2024
Course Code	AFQ-AL3L-1116

Course Overview

Mathematics has been studied for thousands of years, yet it is still a vital, vibrant, and developing subject, it forms part of every aspect of modern life, for example in Science and Technology, Business and Commerce, it provides essential skills for dealing with the problems of the modern world and encourages the development of logical and enquiring minds

A Level Mathematics will allow you to extend your range of mathematical skills and techniques from GCSE and enable you to understand mathematics in a way that promotes confidence, enjoyment, and a strong foundation to progress with further study.

All students follow the Pearson Edexcel A Level Mathematics specification.

Course Requirements

PLEASE NOTE - YOU MUST APPLY FOR 3 A LEVELS

Standard A Level entry requirements: 5 x GCSE grade 5's or above (must include Maths and English Language). However, certain subjects may have additional entry criteria, which can be found below:

Additional Entry Requirements:
A Level Maths will require grade 6 in GCSE Maths

This subject must also be studied alongside at least one other science-based (Maths, Biology, Chemistry, Physics) course.

What You Will Learn

A level Mathematics will include topics such as algebra and functions, trigonometry, statistical distributions, and kinematics, and will develop your problem solving abilities, as well as your ability to analyse and interpret data.

Assessment

The course is assessed through three externally examined papers at the end of the 2-year course:

Paper 1: Pure Mathematics 1 (33.33% of A Level grade)
Paper 2: Pure Mathematics 2 (33.33% of A Level grade)
Paper 3: Statistics and Mechanics (33.33% of A Level grade)

Progression

A Level Mathematics is welcomed as a qualification for a variety of Higher Education courses. A Mathematics qualification is vital for some subjects, such as Engineering, and useful for others, such as Biochemistry.

Career Options

There is no shortage or career prospects for those who pursue maths at A level. Other than being a requirement for many degree programmes, maths based careers include data scientist, financial analyst, engineer, statistician and many other.

Mandatory Units

Pure Mathematics 1 & 2: Proof, algebra and functions, geometry, sequences and series, trigonometry, exponentials and logarithms, differentiation, integration, numerical methods, and vectors.

Statistics: Statistical sampling, data presentation and interpretation, probability, statistical distributions, and statistical hypothesis testing.

Mechanics: Quantities and units in mechanics, kinematics, forces and Newton's laws, and moments.

Contact Details

For further information please contact T: 0161 886 7070 or E: info@trafford.ac.uk

Disclaimer

Although every care has been taken to ensure that the information contained within this document is accurate, there may be changes to this programme and provision. We will endeavour to keep prospective and current students updated where appropriate and when the information becomes available.