

# HIGHER APPLICATIONS OF MATHEMATICS



## COURSE DESCRIPTION

The Higher Applications of Mathematics course develops, deepens and extends the operational and reasoning skills necessary for solving problems. Through real-life contexts, candidates acquire and apply mathematical and statistical skills directly relevant to life and work, and learn about how mathematics affects the world they live in.

Candidates analyse complex real-life problems and gain experience in making and justifying decisions and drawing conclusions.

The skills, knowledge and understanding in the course supports learning and further study and builds confidence in a wide range of curricular areas, such as humanities, social sciences, healthcare, and business.

## AREAS OF STUDY/COURSE STRUCTURE

The following provides a broad overview of the subject skills, knowledge and understanding developed in the course:

- analyse complex real-life situations and problems involving mathematics;
- select and apply skills in **finance, statistics and probability, data modelling, and planning and decision making** – these are the four strands of the course;
- communicate mathematical information with complex features;
- select and apply skills in numeracy;
- use mathematical reasoning skills to extract and interpret information and draw conclusions or justify decisions;
- use software where appropriate, for example to model and analyse statistical, mathematical, and financial problems.

## RECOMMENDED ENTRY

Candidates should have achieved the National 5 Mathematics course or the National 5 Applications of Mathematics course or equivalent qualifications and/or experience prior to starting this course.

## ASSESSMENT

The course assessment has two components.

Component	Marks	Duration
Question Paper	65	2 hours 5 minutes
Project	30	8 hours

## PROGRESSION

Higher Applications of Maths is a highly respected qualification which will open up many career opportunities for you.

The course is accepted for many university and college courses and by many employers.

Sometimes there are minimum entry requirements and the particular employer, college or university you are applying to may ask for more. Always check their requirements carefully!

## FUTURE CAREERS

There are many careers that use Applications of Mathematics, some of these are listed below.

- Civil Service
- Engineering
- Event Management
- Nursing
- Marketing
- Travel & Tourism
- Teaching
- Construction
- Transport & Logistics
- Hospitality & Management