

# Mathematics Applied

# Level 3

## Course Requirements:

Students who have studied Level 2 Mathematics and gained 8 or more credits.

## Aims:

The aim of this course is to build on students' knowledge of topics at Level 2 Mathematics and continue to develop skills in logical reasoning and problem solving.

## Course Content:

The course will cover the following units of work:

- Linear programming
- System of equations
- Critical path analysis
- Time series and bivariate data

Online tools (apps and mathematical software) are used extensively throughout the course to aid student learning.

## Where can this subject take you?

This course will enable students to gain tertiary qualifications in professions requiring competency in Mathematics as part of the study. In particular the areas of engineering, health sciences, technology and commerce. It can be used as one of the subjects required for University entrance.

## Further Assessment Opportunity and Resubmission

(Refer to student Handbook for more information)

A further assessment opportunity occurs after you have submitted work / sat a test for an assessment; you do a new assessment after further learning has taken place.

For this course there will be one further assessment opportunity for each standard.

A resubmission can be offered to you by the teacher if they believe you can correct errors or omissions in your work in a short period of time; it does not involve a new assessment. A resubmission must take place before the teacher gives any feedback on the work done.

There can be only one resubmission.

## Appeals (Please refer to student Handbook for more information)

If you are unhappy with any of your results you should discuss this with your teacher. If you are still unhappy then an Appeals form should be completed; this is available from the HoF; forms need to be completed and returned to your HoF within 5 school days of receiving your grade. If you are still not happy you can then see the Principal's Nominee. At NO time, during this process, should you contact NZQA.

## Head of Faculty

Mr Fenn

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## Assessment Chart

Number	Title	Credits	US/AS	Internal/ External	Format	Literacy	Numeracy	Indicative date
91574	Apply linear programming methods in solving problems	3	AS	Int	Test		Num	Term 1
91587	Apply systems of simultaneous equations in solving problems	3	AS	Int	Test		Num	Term 1&2
91580	Investigate time series data4	4	AS	Int	Investigation		Num	Term 2
91581	Investigate bivariate data	4	AS	Int	Investigation		Num	Term 3
91576	Use critical path analysis in solving problems	2	AS	Int	Test		Num	Term 4

**Note:**

**Entry into externals will be based on:**

There are no external examinations for this course.