

## Subject Overview

**L1** Mathematics

**L2** Mathematics

**L3** Calculus  
Statistics

### 1 MA101 Level 1 NCEA Mathematics

This course involves providing students with a general level of study in Mathematics and gives them an idea of where Mathematics can be used in a practical sense in the world around them, with the opportunity to study beyond Level 1.

#### Course Components

- Number
- Measurement
- Statistics, Probability
- Algebra

 **10+**

INTERNAL CREDITS

 **8**

EXTERNAL CREDITS



OPEN ENTRY

### 2 MA201 Level 2 NCEA Mathematics

This course involves preparing students for professional use of Mathematics. Students taking this course may be considering taking Calculus and/or Statistics at Level 3.

#### Course Components

- Algebra and Graphs
- Trigonometry
- Probability and Statistics
- Calculus

 **11**

INTERNAL CREDITS

 **9**

EXTERNAL CREDITS



RECOMMENDATIONS

- Students taking this course would be considering careers or study requiring high level Mathematics

### 3 MC301 Level 3 NCEA Calculus

**SCHOLARSHIP**



This course involves preparing students for the study of Mathematics beyond secondary level. Calculus has many applications and is a requirement for many Tertiary courses.

#### Course Components

- Simultaneous Equations
- Conic Sections
- Trigonometry
- Differentiation and Integration

 **10**

INTERNAL CREDITS

 **12**

EXTERNAL CREDITS



RECOMMENDATIONS

- Achievement of AS91262 external

This course involves preparing students for the study of Mathematics beyond secondary level. Statistics has many applications and is a requirement for many Tertiary courses.

### Course Components

- Inference
- Linear Programming
- Bivariate Data
- Probability Concepts and Distributions



12



8



INTERNAL CREDITS

EXTERNAL CREDITS

RECOMMENDATIONS

- Achievement of either AS91264 or AS91267 externals