

MATHEMATICS

Level 3

There will be three separate NCEA Level 3 courses:

- ⇒ Calculus MAC 301
- ⇒ Statistics and Modelling MAS 301
- ⇒ Internal assessment Mathematics MAT 302

CALCULUS

MAC 301

This is an approved subject for University Entrance

This course is for the very able mathematician who succeeded in the MAT 201 course.

This course can be taken along with MAS301.

INTERNAL ASSESSMENT

Achievement/ Unit Standards		Title	No of Credits
AS 3.3	90637	Solve problems and equations involving trigonometric functions	4
US Calculus	5267	Use complex numbers to solve equations	3
US Calculus	5265	Use differentiation to solve problems	6
US Calculus	20905	Use integration to solve problems	5
US Calculus	20660	Differential equations	2

EXTERNAL ASSESSMENT

Achievement Standards		Title	No of Credits
AS. 3.1	90635	Differentiate & use derivatives to solve problems	6
AS. 3.2	90636	Integrate functions and solve problems by integration differential equations or numerical methods	6
AS. 3.4	90638	Manipulate real and complex numbers and solve equations	5

Total number of credits offered (excluding Unit Standards)	23
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Suggested Pre-requisites	:	Minimum requirement is Achievement in two Level 2 internal assessments and Achievement in two Level 2 external assessments
Course costs/special equipment needed	:	Workbook \$25 Graphics Calculator is essential.
Contact person	:	Mr S Murphy