

Subject:	Mathematics
NCEA Level:	Three
Teacher to Contact:	Mr D Kitchingman Code: MAT330

Standard		Title	Credits
AS 90635	E	Differentiate and use derivatives to solve problems.	6
AS 90636	E	Integrate functions and solve problems by integration, differential equations and numerical methods.	6
AS 90637	I	Solve problems and equations involving trigonometric functions.	4
AS 90638	E	Manipulate real and complex numbers solve equations.	5
AS 90639	E	Sketch graphs and find equations of conic sections.	3

**E means the Achievement Standard is assessed externally at the end of the year.
I means the Achievement Standard is assessed internally.**

What will I learn?

This course continues and extends the work of Level 2 on Algebra, Co-ordinate Geometry, Trigonometry and Calculus. About half of the course is Calculus.

How will I learn?

This is a theoretical course with time spent in class and at home working on problems.

What should I have already done?

Achieved NCEA Level 2 Mathematics with at least fourteen credits, seven of which must be from 90284, 90285, 90286.

Where does the subject lead?

This course is suitable for those students with a mathematical interest or for those intending to study Mathematics, Sciences, Economics or Engineering at University.

How is the course assessed?

Progress through the year is monitored by tests, assignments, examinations and one standard by internal assessment. Four standards are assessed by an external examination at the end of the year. Unit standards may be offered.

Other details: (costs, field trips etc)

A graphics calculator and study guide are essential.
Stationery: 1J5 exercise book.

End of course qualifications.

Credits towards the National Certificate of Educational Achievement Level 3.