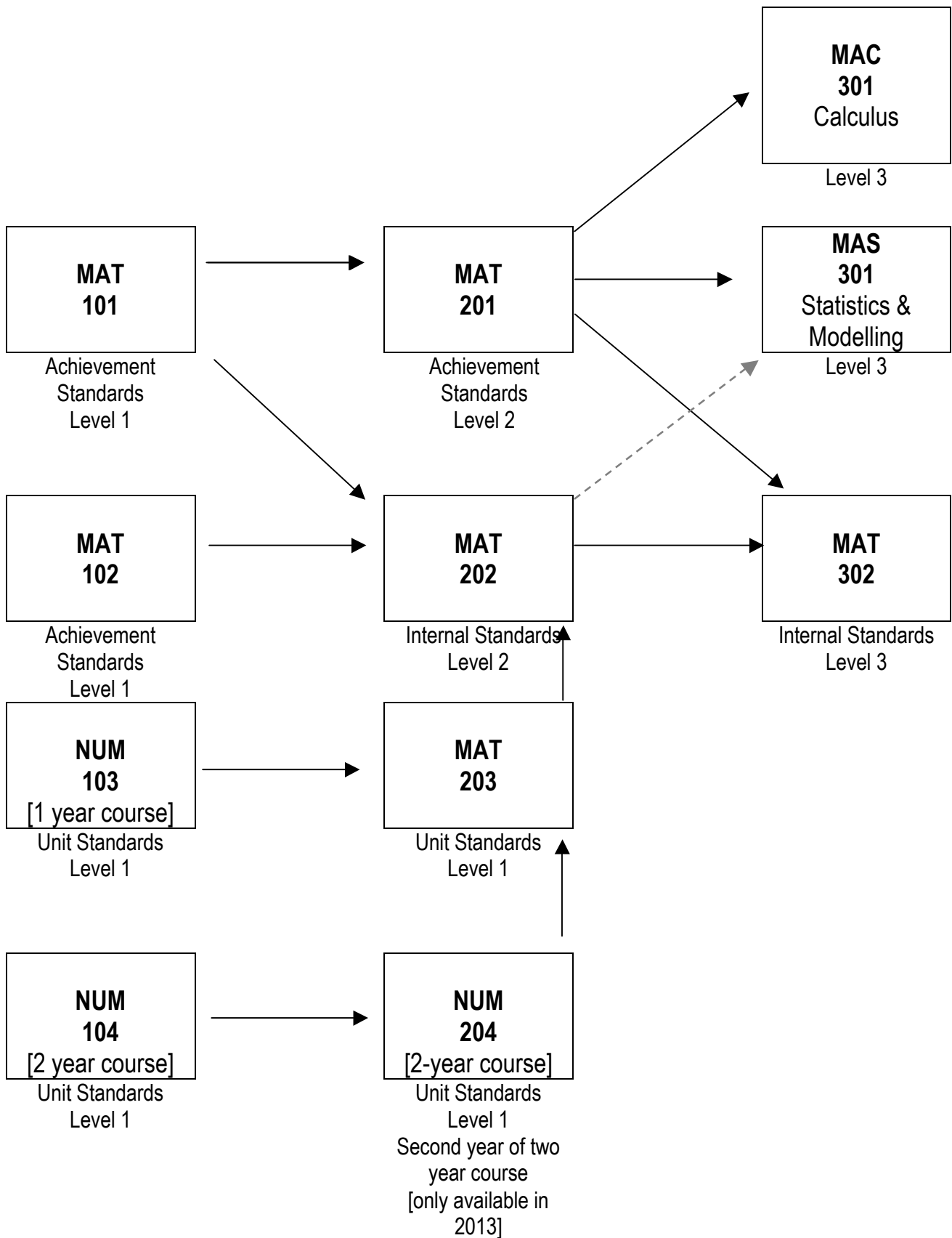


MATHEMATICS

Senior Coursing in 2012



MATHEMATICS

Level 1

- All Year 11 students study Mathematics.
- Four courses are offered in Year 11 which offer credits towards NCEA Level 1.
- Teachers will decide which is the appropriate course for you to follow, based on your performance and attitude in the latter part of Year 10.

MATHEMATICS

MAT 101

MAT101 is geared towards a very able student who has had success in Year 10 Maths and is intending to study Calculus (MAC301) or Statistics and Modelling (MAS301) in Year 13.

INTERNAL ASSESSMENT

A selection from:

Achievement Standards	Number	Title	No of Credits
AS 1.1	91026	Numeric Reasoning	4
AS 1.7	91032	Right Angle Triangles	3
AS 1.10	91035	Multivariable Statistics I	4

EXTERNAL ASSESSMENT

Achievement Standards	Number	Title	No of Credits
AS 1.2	91027	Algebraic Methods	4
AS 1.3	91028	Tables, Equations, Graphs	4
AS 1.6	91031	Geometric Reasoning	4
AS 1.12	91037	Chance and Data	4

Pre-requisite	:	Consultation with Year 10 Maths teacher
Suggested further study	:	Level 2 Courses MAT 201 or MAT 202
Course costs/special equipment needed	:	Workbooks \$25 Casio FX82 Scientific Calculator
Contact person	:	Mr S Murphy

MATHEMATICS

MAT 102

- This course is designed for students who are able mathematicians without external exam pressures.
- Students who successfully complete this course can in 2013 attempt MAT202.

INTERNAL ASSESSMENT

Achievement Standards	Number	Title	No of Credits
AS 1.1	91026	Apply numeric reasoning in solving problems	4
AS1.10	91034	Investigate a given multivariate data set using the statistical enquiry cycle	4
AS 1.13	91037	Probability. Investigate a situation involving elements of chance	3
AS 1.8	91033	Apply knowledge of geometric representations in solving problems	3
AS 1.7	91032	Apply right angled triangles in solving measurement problems	3
AS 1.11	91035	Investigate bivariate numerical data using the statistical enquiry cycle	3

Total number of credits offered	20
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Suggested further study : **MAT 202**

Course costs/special equipment needed : **Casio FX82 Scientific Calculator**

Contact person : **Mr S Murphy**

MATHEMATICS

NUM 103

(**Numeracy**
1 year course)

- The structure of the course allows students to learn in context the mathematical skills useful in vocational and every day situations.
- The qualifications offered are all internally assessed standards which meet the numeracy requirement.
- At Year 12 the student is able to follow MAT 203, a Level 1 internally assessed course.
- This course is suited to the student who genuinely finds basic maths difficult.
- This course will cover 6 themes which will accumulate evidence during the year towards the following 3 Unit Standards.
- Students need to achieve all three standards to gain Level 1 numeracy.

INTERNAL ASSESSMENT

Unit Standards		Title	No of Credits
US Numeracy	26623	Use number to solve problems	4
US Numeracy	26626	Interpret statistical information for a purpose	3
US Numeracy	26627	Use measurement to solve problems	3

Total number of credits offered	10
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Prerequisite	:	None
Suggested further study	:	MAT 203
Course costs/special equipment needed	:	Casio FX82 Scientific Calculator
Contact person	:	Mr S Murphy

MATHEMATICS

NUM 104

Numeracy

[First year of a 2 year course]

- This course is designed for students who find basic Mathematics difficult and need extra time to develop understanding.
- This course takes two years and is geared towards students who may struggle to gain numeracy in a conventional class.
- This course will cover 6 themes per year, which accumulate evidence during the year for the following 3 Unit Standards.
- Students need to achieve all three standards to gain Level 1 numeracy.

INTERNAL ASSESSMENT

Unit Standards		Title	No of Credits
US Numeracy	26623	Use number to solve problems	4
US Numeracy	26626	Interpret statistical information for a purpose	3
US Numeracy	26627	Use measurement to solve problems	3

Total number of credits offered	10
	Over 2 years

EXTERNAL ASSESSMENT

Nil

Prerequisite	:	None
Course costs/special equipment needed	:	Casio FX82 Scientific Calculator
Contact person	:	Mr S Murphy