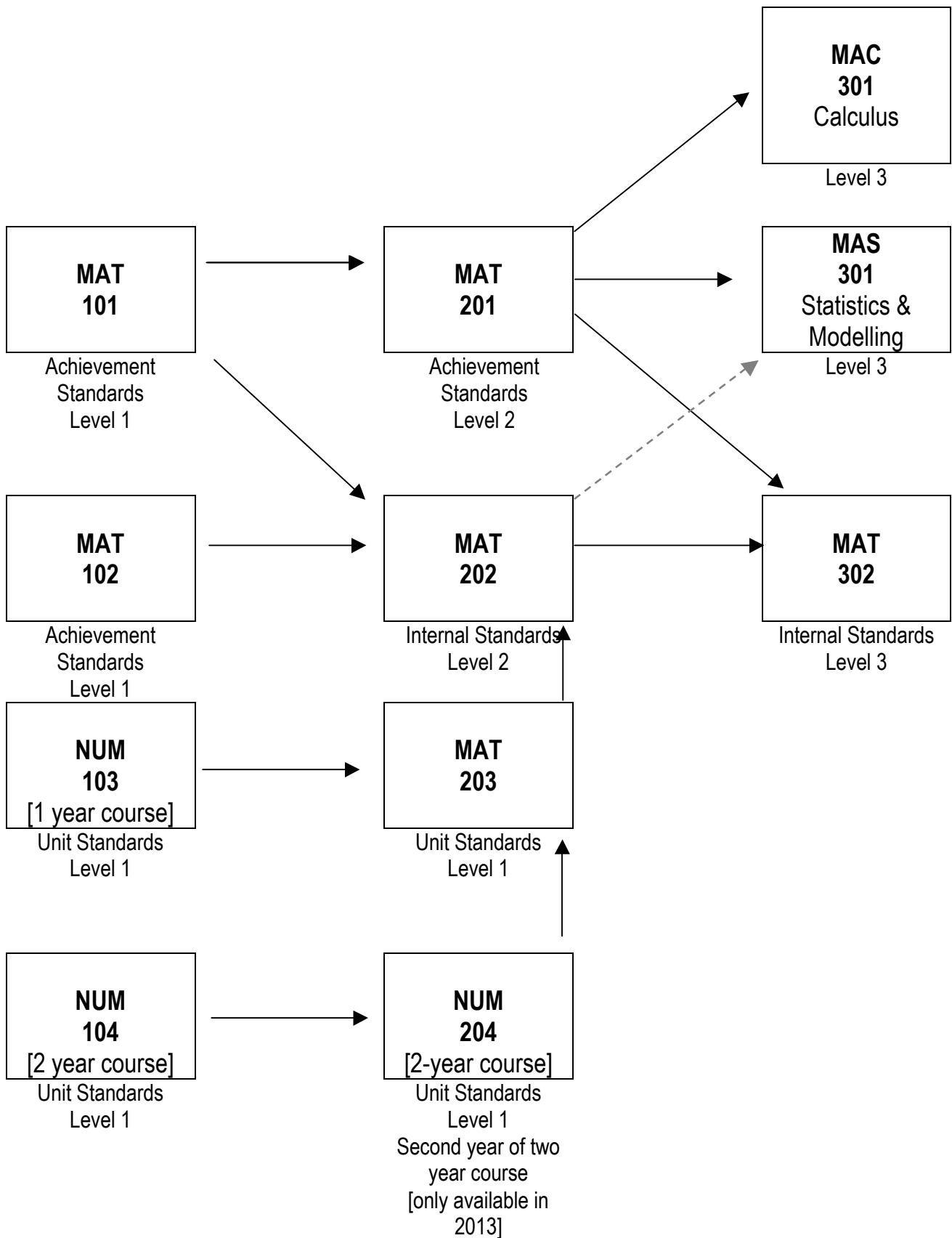


# MATHEMATICS

## Senior Coursing in 2012



# MATHEMATICS

## Level 2

All Year 12 students study Mathematics. Four courses are offered, which offer Level 2 or numeracy credits. Teachers in consultation with parents will decide which course best suits your needs.

# MATHEMATICS

## MAT 201

Mathematics 201 is geared to the very able student who has had success in MAT 101 and is intending to study either 301 Calculus (MAC) or 301 Statistics and Modelling (MAS).

It is also a pathway to study MAT 302.

Students who are serious in continuing Mathematical studies should purchase their own Graphics Calculator.

### INTERNAL ASSESSMENT

Achievement Standards	Title	No of Credits
AS 2.1	Apply Coordinate Geometry methods in solving problems	2
AS 2.2	Apply Graphical Methods in solving problems	4
AS 2.9	Use Statistical Methods to make an Inference	4

### EXTERNAL ASSESSMENT

Achievement Standards	Title	No of Credits
AS 2.6	Apply Algebraic Methods in solving problems	4
AS 2.7	Apply Calculus Methods in solving problems	5
AS 2.12	Apply Probability Methods in solving problems	4

<b>Total number of credits offered</b>	<b>23</b>
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<b>Pre-requisite :</b>	:	2 out of 3 External Standards from Level 1
<b>Suggested further study</b>	:	MAC 301 Calculus and/or MAS 301 Statistics and Modelling OR MAT 302 Level 3 internally assessed
<b>Course costs/special equipment needed</b>	:	Workbooks \$25 Graphics Calculator necessary (Casio FX-9750)
<b>Contact person</b>	:	Mr S Murphy

# MATHEMATICS

## MAT 202

This course is designed for able students from MAT 101/102 who are looking for Level 2 credits with no external exam requirement.

Students who successfully complete this course will cope with the internally assessed Level 3 course MAT 302.

Students need to be aware that this course is at Level 2 and the maths skills required are significantly greater than for Level 1.

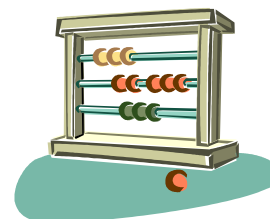
The use of Graphics Calculators is encouraged.

### INTERNAL ASSESSMENT

Achievement/ Unit Standards	Title	No of Credits
AS 2.3	Sequences and Series	2
AS 2.4	Trigonometry Relationships	3
AS 2.5	Networks	2
AS 2.9	Inferences	4
AS 2.10	Conduct an Experiment	3
AS 2.11	Evaluate a Report	2
US 5251	Trigonometry	3
US 5244	Calculus Skills	2

<b>Total number of credits offered</b>	<b>21</b>
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<b>Pre-requisite</b>	:	<b>Must have completed a year in MAT 101/102 with achievement in at least two Level 1 Achievement Standards. This course is not suited to those who studied MAT 103 in 2011.</b>
<b>Suggested further study</b>	:	<b>MAT 302</b>
<b>Course costs/special equipment needed</b>	:	<b>Scientific Calculator. [Graphics calculators recommended if continuing to study Maths in 2013.] Workbooks \$20.</b>
<b>Contact person</b>	:	<b>Mr S Murphy</b>



# MATHEMATICS

## MAT 203

This course is designed for students who have gained Level 1 Numeracy and wish to achieve further credits in Mathematics

### INTERNAL ASSESSMENT

Unit Standards		Title	No of Credits
US Level 1	5223	Use formulae and equations to solve problems in the workplace	1
US Level 1	5236	Use Pythagoras' theorem and trigonometry to solve problems related to right-angled triangles in the workplace	1
US Level 1	24697	Perform income-related calculations for personal financial management	1
US Level 1	24705	Interpret and verify accuracy of personal financial documents	2
US Level 1	24709	Produce a balanced budget for an individual	3
US Level 2	24699	Make an informed decision relating to personal income and evaluate its consequences	2

<b>Total number of credits</b>	
<b>Level 1</b>	<b>8</b>
<b>Level 2</b>	<b>2</b>
<b>Total</b>	<b>10</b>

<b>Pre-requisite</b>	:	<b>Completed the MAT 103 course at Year 11</b>
<b>Suggested further study</b>	:	<b>MAT 202 may be studied in 2013.</b>
<b>Course costs</b>	:	<b>Casio FX82 Scientific Calculator</b>
<b>Contact person</b>	:	<b>Mr S Murphy</b>