

Learning Area: Mathematics

CAL3 COURSE OUTLINE 2023

	Topic	Standard Code	Credits offered	Time	Result	Lit/Num
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Term 1 (11 weeks)

1	Apply trigonometric methods in solving problems AS 91575 (3.3) internal will be sat in Week 5	AS 91575 (3.3)	4	5 weeks	N A M E	Num
2	Apply systems of simultaneous equations in solving problems AS 91587 (3.15) internal will be sat in Week 10	AS 91587 (3.15)	3	4 weeks	N A M E	Num
3	Apply the algebra of complex numbers in solving problems AS 91577 (3.5) practice test will be sat next Term	AS 91577 (3.5)	5	1 week		Num

Term 2 (10 weeks)

	Apply the algebra of complex numbers in solving problems AS 91577 (3.5) practice test will be sat in Week 4	AS 91577 (3.5)	5	4 weeks		Num
4	Apply differentiation methods in solving problems AS 91578 (3.6) practice test will be sat in Week 10	AS 91578 (3.6)	6	6 weeks		Num

Term 3 (10 weeks)

5	Apply integration methods in solving problems AS 91579 (3.7) will be assessed in the Examination	AS 91579 (3.7)	6	5 weeks		Num
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Preliminary Examination (weeks 8 and 9) covering 3 external Achievement Standards (3.5, 3.6, 3.7)

Feedback from Examination

Term 4 (3 weeks)

Revision for external Achievement Standards 91577, 91578 and 91579 Or additional Standards 91573 and 91574						
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Total number of credits achieved internally
(out of 7):

STA3 COURSE OUTLINE 2023

	Topic	Standard Code	Credits offered	Time	Result	Lit/Num
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Term 1 (11 weeks)

1	Apply probability concepts in solving problems	3.13 AS 91585	4	6 weeks		Num
2	Investigate bivariate measurement data AS 3.9 will be project based and due week 11	3.9 AS 91581	4	5 weeks	N A M E	Lit/Num

Term 2 (10 weeks)

3	Apply probability distributions in solving problems	3.14 AS 91586	4	5 weeks		Num
4	Investigate time series data AS 3.8 will be project based and due week 10	3.8 AS 91580	4	5 weeks	N A M E	Lit/Num

Term 3 (10 weeks)

5	Use statistical methods to make a formal inference AS 3.10 will be project based due week 5	3.10 AS 91582	4	5 weeks	N A M E	Lit/Num
	Revision for both external Achievement Standards			2 weeks		
Preliminary Examinations (weeks 8 & 9) covering 2 external Achievement Standards (3.13, 3.14)						
	Feedback from the Preliminary Examination			1 week		

Term 4 (4 weeks)

Revision for both external Achievement Standards						
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Total number of credits achieved internally (out of 12):

MAT3 COURSE OUTLINE 2023

	Topic	Standard Code	Credits offered	Time	Result	Lit/Num
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Term 1 (11 weeks)

1	Use critical path analysis in solving problems AS 3.4 will be sat in Week 4	3.4 AS 91576	2	3 weeks	N A M E	Num
2	Investigate bivariate measurement data AS 3.9 will be sat in Week 9	3.9 AS 91581	4	5 weeks	N A M E	Lit/Num
3	Apply systems of simultaneous equations in solving problems	3.15 AS 91587	3	2 weeks		Num

Term 2 (10 weeks)

	Apply systems of simultaneous equations AS 3.15 will be sat in Week 4	3.15 AS 91587		3 weeks	N A M E	
4	Investigate time series data AS 3.8 will be sat in Week 10	3.8 AS 91580	4	6 weeks	N A M E	Lit/Num

Term 3 (10 weeks)

5	Apply linear programming methods in solving problems AS 3.2 will be sat in week 4	3.2 AS 91574	3	4 weeks	N A M E	Num
6	Apply probability distributions in solving problems	3.14 AS 91586		3 weeks		Num

Prelim Examinations (weeks 8 & 9) covering 1 external Achievement Standards (3.14)

	Apply probability distributions in solving problems			1 weeks		
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Term 4 (3 weeks)

	Apply probability distributions in solving problems			4 weeks		
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Total number of credits achieved internally (out of 20):

MATH3 - Level 3 COURSE OUTLINE 2023

	Topic	Standard Code	Credits offered	Time	Result	Lit/Num
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Term 1 (11 weeks)

1	Use critical path analysis in solving problems AS 3.4 will be sat in Week 6	3.4 AS 91576	2	5 weeks	N A M E	Num
2	Apply systems of simultaneous equations in solving problems AS 3.15 will be sat in week 11	3.15 AS 91587	3	5 weeks	N A M E	Num

Term 2 (10 weeks)

3	Apply linear programming methods in solving problems AS 3.2 will be sat in week 5	3.2 AS 91574	3	5 weeks	N A M E	Num
4	Apply trigonometric methods in solving problems AS 3.3 internal will be sat in Week 10	3.3 AS 91575	4	5 weeks	N A M E	Num

Term 3 (10 weeks)

5	Investigate bivariate measurement data AS 3.9 will be sat in Week 7	3.9 AS 91581	4	7 weeks	N A M E	Lit/Num

Term 4 (3 weeks)

	Further assessment opportunities					
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Total number of credits achieved internally (out of 16):

MAT2A COURSE OUTLINE 2023

	Topic	Standard Code	Credits offered	Time	Result	Lit/Num
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Term 1 (11 weeks)

1	Apply coordinate geometry methods AS 91256 will be assessed in Week 4	AS 91254 (2.1)	2	3 weeks	N A M E	Num
2	Apply graphical methods in solving problems AS 91257 will be assessed in Week 9	AS 91257 (2.2)	4	5 weeks	N A M E	Num
3	Apply systems of equations in solving problems	AS 91269 (2.14)		1 week		Num

Term 2 (10 weeks)

	Apply systems of equations in solving problems AS 91269 will be assessed in Week 2	AS 91269 (2.14)	2	2 weeks	N A M E	Num
4	Apply algebraic methods in solving problems End of topic test AS 91261 will be given in Week 8	AS 91261 (2.6)	4	5 weeks		Num
5	Apply calculus methods in solving problems Progress test will be given in week 10	AS 91262 (2.7)	5	2 weeks		Num

Term 3 (10 weeks)

	Apply calculus methods in solving problems continued End of topic test AS 91262 will be given in Week 3	AS 91262 (2.7)		3 weeks		
6	Apply probability methods in solving problems End of topic test AS 91267 will be assessed in the exam	AS 91267 (2.12)	4	4 weeks		Lit/Num
Preliminary Examinations (weeks 8 and 9) covering 3 external Achievement Standards (2.6, 2.7, 2.12)						
7	Apply trigonometric relationships in solving problems AS91259 will be assessed in Week 10 (optional)	AS 91259 (2.4)	3	1 week	N A M E	Num
feedback on the Preliminary Examination and optional standard taught and assessed						

Term 4 (3 weeks)

Revision for all three external Achievement Standards (91261, 91262, 91267)				3 weeks		
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Total number of internal credits achieved (out of 8 (11)):

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MAT2B COURSE OUTLINE 2023

	Topic	Standard Code	Credits offered	Time	Result	Lit/Num
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Term 1 (11 weeks)

1	Apply coordinate geometry methods in solving problems AS 91256 will be assessed in week 4	AS 91256 (2.1)	2	4 weeks	NAME	Num
2	Apply networks in solving problems AS 91260 will be assessed in week 7	AS 91260 (2.5)	2	3 weeks	NAME	Num
3	Investigate a situation involving elements of chance using a simulation AS 91268 will be assessed in week 11	AS 91268 (2.13)		3 weeks	NAME	Lit/Num

Term 2 (10 weeks)

4	Use statistical methods to make an inference AS 91264 will be assessed in week 6	AS 91264 (2.9)	4	6 weeks	NAME	Lit/Num
5	Apply trigonometric relationships in solving problems AS 91259 will be assessed in week 10	AS 91259 (2.4)	3	4 weeks	NAME	Num

Term 3 (10 weeks)

6	Apply sequences and series in solving problems AS 91258 will be assessed in week 4	AS91258 (2.3)	2	3 weeks	NAME	Num
7	Apply probability methods in solving problems AS 91267 will be assessed in the preliminary examination	AS 91267 (2.12)	4	4 weeks	external	Lit/Num

Term 3 Preliminary Examinations (weeks 8 and 9) covering 1 external Achievement Standard (91267)

Term 4 (3 weeks)

	Apply probability methods in solving problems revision	AS 91267 (2.12)		3 weeks		
Revision for the external Achievement Standard						

Total number of internal credits achieved (out of 13):

MAT2C COURSE OUTLINE 2023

	Topic	Standard Code	Credits offered	Time	Result	Lit/Num
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Term 1 (11 weeks)

1	Apply coordinate geometry methods in solving problems AS 91256 will be assessed in Week 6	AS 91256 (2.1)	2	6 weeks	N A M E	Num
2	Apply network methods in solving problems AS 91260 will be assessed in Week 11	AS 91260 (2.5)	2	4 weeks	N A M E	Num

Term 2 (10 weeks)

3	Investigate a situation involving elements of chance using a simulation AS 91268 will be assessed in week 5	AS 91268 (2.13)	2	5 weeks	N A M E	Lit/Num
4	Apply trigonometric relationships in solving problems AS 91259 will be assessed in Week 10	AS 91259 (2.4)	3	5 weeks	N A M E	Num

Term 3 (10 weeks)

5	Apply sequences and series in solving problems AS 91258 will be assessed in Week 4	AS 91258 (2.3)	2	3 weeks	N A M E	Num
6	Apply probability methods in solving problems AS 91267 will be assessed in the Preliminary Exam	AS 91267 (2.12)	4	4 weeks		Lit/Num
Preliminary Examinations (weeks 8 and 9) covering AS 91267						
	feedback from exams			1 week		

Term 4 (3 weeks)

	Revision for the external Achievement Standard AS 91267			3 weeks		
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Total number of **internal credits** achieved (out of 11):

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MATH2 COURSE OUTLINE 2023

	Topic	Standard Code	Credits offered	Time	Result	Lit/Num
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Term 1 (11 weeks)

1	Apply Numeric reasoning in solving problems AS 91026 will be assessed in Term 1	AS 91026 (1.1)	4	11 weeks	N A M E	Num
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Term 2 (10 weeks)

2	Investigate a situation involving elements of chance AS 91038 will be assessed in Term 2	AS 91038 (1.13) v3	3	10 weeks	N A M E	Lit/Num
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Term 3 (10 weeks)

3	Transformation Geometry AS 91034 will be assessed in Term 3	AS 91034 (1.9) v3	2	10 weeks	N A M E	Num
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Term 4 (3 weeks)

	Xcel catch up assessments			3 weeks		
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Total number of **internal credits** achieved (out of 15):

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MAT1A COURSE OUTLINE 2023

	Topic	Standard Code	Credits offered	Time	Result	Lit/Num
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Term 1 (11 weeks)

1	Apply numeric reasoning in solving problems AS 91026 will be assessed in Week 4	AS 91026 (1.1)	4	3 weeks	N A M E	Num
2	Investigate a given multivariate data set using the statistical enquiry cycle AS 91035 will be assessed in Week 8	AS 91035 (1.10)	4	4 weeks	N A M E	Lit/Num
3	Investigate relationships between tables equations and graphs	AS91028 (1.3)	4	3 weeks		Num

Term 2 (10 weeks)

3	Investigate relationships between tables equations and graphs continued AS 91028 practice test will be Week 1	AS91028 (1.3)	4	1 week		
4	Apply algebraic procedures in solving problems AS 91027 practice test will be in Week 6	AS 91027 (1.2)	4	5 weeks		Num

Term 3 (10 weeks)

5	Demonstrate understanding of chance and data AS 91037 practice test will be sat in Week 4	AS 91037 (1.12)		4 weeks		Num
	Revision for external Achievement Standards 91027, 91028 and 91037			3 weeks		
Preliminary Examinations (weeks 8 and 9) covering 3 external Achievement Standards (1.3, 1.12)						
and the MCAT exam (1.2) on ??						
September						
feedback from exams						

Term 4 (3 weeks)

	Revision for external Achievement Standards 91028 and 91037			3 weeks		
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Total number of credits achieved (out of 8):

MAT1B COURSE OUTLINE 2023

	Topic	Standard Code	Credits offered	Time	Result	Lit/Num
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Term 1 (11 weeks)

1	Apply numeric reasoning in solving problems AS 91026 will be assessed in Week 5	AS 91026 (1.1)	4	5 weeks	N A M E	Num
2	Investigate a given multivariate data set using the statistical enquiry cycle AS 91035 will be assessed in Week 11	AS 91035 (1.10)	4	5 weeks	N A M E	Lit/Num

Term 2 (10 weeks)

3	Investigate bivariate numerical data using the statistical enquiry cycle AS 91036 will be assessed in Week 4	AS 91036 (1.11)	3	3 weeks	N A M E	Lit/Num
4	Apply linear algebra in solving problems AS 91029 will be assessed in week 10	AS 91029 (1.4)	3	6 weeks	N A M E	Num

Term 3 (10 weeks)

5	Apply right angled triangles in solving measurement problems AS 91032 will be assessed in week 4	AS 91032 (1.7)	3	3 weeks	N A M E	Num
6	Demonstrate understanding of chance and data AS 91037 practice test in the Preliminary Examination	AS 91037 (1.12)	4	4 weeks		Num
Preliminary Examination (week 8 and 9) covering the external standard (1.12)						
	Feedback from the Preliminary Examination			1 week		

Term 4 (3 weeks)

	Revision for external Achievement Standard 91037			3 weeks		
Total number of credits achieved (out of 17):						

MAT1C COURSE OUTLINE 2023

	Topic	Standard Code	Credits offered	Time	Result	Lit/Num
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Term 1 (11 weeks)

1	Apply numeric reasoning in solving problems	AS 91026 (1.1)	4	5 weeks	N A M E	Num
	AS 91026 will be assessed in Week 5					
2	Investigate a given multivariate data set using the statistical enquiry cycle	AS 91035 (1.10)		5 weeks		Lit/Num
	AS 91035 will be assessed in Week 1 Term 2					

Term 2 (10 weeks)

	Investigate a given multivariate data set using the statistical enquiry cycle	AS 91035 (1.10)	4	1 week	N A M E	
	AS 91035 will be assessed in Week 1					
3	Investigate bivariate numerical data using the statistical enquiry cycle	AS 91036 (1.11)	3	4 weeks	N A M E	Lit/Num
	AS 91036 will be assessed in Week 5					
4	Investigate a situation involving elements of chance	AS91038 (1.13)	3	5 weeks	N A M E	Num
	AS 91038 will be assessed Week 10					

Term 3 (10 weeks)

5	Apply right angled triangles in solving measurement problems	AS 91032 (1.7)	3	5 weeks	N A M E	Num
	AS 91032 will be assessed in week 5					
6	Apply transformation geometry in solving problems	As 31034 (1.9)	2	4 weeks	N A M E	Num
	AS 91034 will be assessed in week 10					

Term 4 (4 weeks)

	Further assessment opportunity			3 weeks	N A M E	

Total number of credits achieved (out of 19):

MATH1 COURSE OUTLINE 2023

	Topic	Standard Code	Credits offered	Time	Result	Lit/Num
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Term 1 (11 weeks)

1	Apply numeric reasoning in solving problems	AS 91026 (1.1)	4	8 weeks	N A M E	Num
	AS 91026 will be assessed in Week 8					
2	Apply transformation geometry in solving problems	AS 91034 (1.9)		2 weeks		Num
	AS 91034 will be assessed in Term 2					

Term 2 (10 weeks)

	Apply transformation geometry in solving problems	AS 91034 (1.9)	2	3 weeks	N A M E	
	AS 91034 will be assessed in Week 4					
3	Investigate a situation involving elements of chance	AS91038 (1.13)	3	6 weeks	N A M E	Num
	AS 91038 will be assessed Week 10					

Term 3 (10 weeks)

4	Investigate bivariate numerical data using the statistical enquiry cycle	AS 91036 (1.11)	3	7 weeks	N A M E	Lit/Num
	AS 91036 will be assessed in Week 7					
5	Apply right angled triangles in solving measurement problems - optional	AS 91032 (1.7)		2weeks		Num
	AS 91032 will be assessed in Term 4					

Term 4 (4 weeks)

	Apply right angled triangles in solving measurement problems - optional	AS 91032 (1.7)	3	3 weeks	N A M E	
	AS 91032 will be assessed in week 3					

Total number of credits achieved (out of 12+):