

TAITA COLLEGE

L1 Mathematics

MAT 101

Course information:

This is a full Level 1 NCEA mathematics course which allows students to advance to any higher level in mathematics. A **scientific calculator** is essential in order to pass this course. We recommend purchasing one from one of the major stationary outlets at the beginning of the year while they are having their "Back to School" sales. During this time you may purchase an appropriate calculator for around \$12. The normal retail price is over twice this price. Alternatively, you may purchase a graphics calculator if you want to continue to study Mathematics in Year 12 and Year 13.

Homework

Standard specific homework books will be supplied as required, during the year to help enhance learning at school and used for homework. They will only be required for about 4 of the standards being covered, to enhance the learning that is required for those topics.

Pre-requisites for Level 2 Mathematics courses next year:

- MAT201: Focusing mainly on the Statistics and Modelling side of mathematics. Mostly internal assessments. Students will need to gain 12 credits or more in any mathematics achievement standards. MAT 201 will allow the student to progress to either STA301 or MAT321 for Level 3 NCEA should they choose to do so later.
- MAT202: A more pure mathematics course with an introduction to calculus. This is the more academic of the level 2 mathematics courses. Students will need to have a minimum of 16 credits, which should include a merit grade or better in at least two of AS91026 (number), AS 91027 (algebraic methods), AS91028 (equations and graphs), and AS91032 (trigonometry). MAT202 will enable the student to do STA301, MAT321 or CAL301 in year 13.

Total number of credits available:

21 credits internally, 4 externally. All of these count towards L1 Numeracy.

Re assessment opportunities:

Due to the compact nature of this course, **no** re-assessment opportunities will be granted.

Standard	Title	Credits	Internal/ External	L1 Literacy	Assessment Date
AS 91026	Apply numeric reasoning in solving problems	4	Internal	x	Term 1: Week 6
AS91032	Apply right angled triangles in solving measurement problems	3	Internal	x	Term 1: Week 11
AS91030	Apply measurement in solving problems	3	Internal	x	Term 2: Week 5
AS91035	Investigate a given multivariate data set using the Stats enquiry cycle	4	Internal	L1 Literacy	Term 2: Week 10
AS91036	Investigate bivariate numerical data using the statistical enquiry cycle	3	Internal	L1 Literacy	Term 3: Week 5
AS91037	Demonstrate understanding of chance and data	4	External	x	Term 4: NCEA External exam

This course is **endorsable**

2020 PLANNER: MAT101

Week	DATES	EVENTS	Topics and Standards	DUE DATE
1	29.Jan -31 Jan			
2	03 Feb-07 Feb	06 Feb Waitangi Day		
3	10 Feb-14 Feb		NUMBER (Internal)	
4	17 Feb –21 Feb			
5	24 Feb- 28 Feb			
6	02 Mar - 06 Mar		AS91026 – 4 Credits	
7	09 Mar-13 Mar	11-13 March Year 11 Ignite		
8	16 Mar-20 Mar		Trigonometry (Internal)	
9	23 Mar-27 March			
10	30 Mar-03 April			
11	06 April- 09 April	10 April Good Friday	AS91032 – 3 Credits	
End of Term 1 Holidays				
1	28 April-01 May	27 April Anzac Day		
2	04 May -08 May		MEASUREMENT (Internal)	
3	11 May-15 May			
4	18 May-22 May			
5	25 May-29 May		AS91030 – 3 credits	
6	02 June 05 June	Queens Birthday)	
7	08 June-12 June		Multivariate Data (Internal)	
8	15 June-19 June			
9	22 June-26 June		AS91035 – 4 credits	
10	29 June-03 July			
End of Term 2 Holidays				
1	20 July-24 July			
2	27 Jul- 31 July		Bivariate Data (Internal)	
3	03 Aug- 07 Aug			
4	10 Aug-14 Aug			
5	17 Aug-21 Aug		AS91036 – 3 credits	
6	24 Aug- 28 Aug			
7	31 Aug-04 Sept		Probability and Chance (External)	
8	07 Sept-11 Sept			
9	14 Sept-18 Sept			
10	21 Sept-25 Sept			
End of Term 3 Holidays				
1	12 Oct-16 Oct			
2	19 Oct-23 Oct			
3	27 Oct- 30 Oct	Labour Day		
4	02 Nov-06 Nov			
5	09 Nov-13 Nov			
6	16 Nov-20 Nov			
7	23 Nov-27 Nov			
8	30 Nov-04 Dec			
9	07 Dec-09 Dec			