

TAITA COLLEGE

Level 2 Mathematics

MAT 201

General

This course covers Level 2 Achievement Standards in Mathematics and Statistics. There are a total of 17 credits available which will equip students with the skills required to successfully complete the NCEA Level 3 Statistics and Modelling course in the following year. After a review of some basic algebra, the course becomes significantly more difficult, and will require students to complete all homework set for them to gain a good understanding of these advanced topics. There are 6 achievement standards of which only one will be assessed in the end of year examination period. Only one re-assessment opportunity may be offered if time allows.

Equipment

A **scientific calculator is essential** in order to pass this course. We recommend purchasing one at the beginning of the year from one of the major stationary outlets while they are having their "Back to School" sales. During this time you should be able to purchase an appropriate calculator for around \$12. The normal retail price is twice this. Those looking to do Level 3 Statistics next year should look to purchase a graphics calculator.

Homework

Standard-specific homework books will be required for most topics covered. These will be available to purchase through the school office as directed by the teacher when required. The cost of these will be approximately \$7 per booklet.

Pre-requisites for Level 3 Mathematics

- Students in MAT201 are **not eligible to do Year 13 Calculus** in the following year.
- To do **Level 3 Statistics and Modelling** next year, students should aim to gain at least 12 credits from this course, including the externally assessed Probability standard **(AS91267)**
- Students who struggle with external assessments may opt for MAT301 which is a fully internal Level 3 mathematics course but only offering 16 credits in total.

Standard	Title	Credits	Internal/ External	Literacy
AS91256	Apply co-ordinate geometry methods in solving problems	2	Internal	X
AS91259	Apply trigonometric relationships in solving problems	3	Internal	X
AS91260	Apply network methods in solving problems	2	Internal	X
AS91264	Use statistical methods to make an inference	4	Internal	L1 Literacy
AS91268	Investigate a situation using a simulation	2	Internal	L1 Literacy
AS91267	Apply probability methods in solving problems	4	External	L1 Literacy

This course is endorsable, meaning 12 credits at merit level (or higher) will give a student NCEA L2 Mathematics with Merit, for example.

2020 PLANNER: MAT201

Week	DATES	EVENTS	Topics and Standards	DUE DATE
1	29.Jan -31 Jan			
2	03 Feb-07 Feb	06 Feb Waitangi Day	Algebra	
3	10 Feb-14 Feb		Skills	
4	17 Feb –21 Feb			
5	24 Feb- 28 Feb		Coordinate Geometry	
6	02 Mar - 06 Mar			
7	09 Mar-13 Mar	11-13 March Year 11 Ignite	AS91256 – 2 credits	
8	16 Mar-20 Mar			
9	23 Mar-27 March		Trigonometry	
10	30 Mar-03 April			
11	06 April- 09 April	10 April Good Friday	AS91259 – 3 credits	
End of Term 1 Holidays				
1	28 April-01 May	27 April Anzac Day		
2	04 May -08 May		Networks	
3	11 May-15 May			
4	18 May-22 May		AS 91260 – 2 credits	
5	25 May-29 May			
6	02 June 05 June	Queens Birthday		
7	08 June-12 June		Sampling and Making an Inference	
8	15 June-19 June			
9	22 June-26 June			
10	29 June-03 July		AS91264 – 4 credits	
End of Term 2 Holidays				
1	20 July-24 July			
2	27 Jul- 31 July		Simulation	
3	03 Aug- 07 Aug		AS91264 – 2 credits	
4	10 Aug-14 Aug			
5	17 Aug-21 Aug			
6	24 Aug- 28 Aug		Probability and Normal Distribution	
7	31 Aug-04 Sept		(Externally assessed)	
8	07 Sept-11 Sept			
9	14 Sept-18 Sept			
10	21 Sept-25 Sept		AS91267 – 4 credits	
End of Term 3 Holidays				
1	12 Oct-16 Oct		Reassessments	
2	19 Oct-23 Oct		if required	
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			