

# 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 need to be purchased, as required, during the year at a cost of \$6 per book. They will only be required for about 4 of the standards being covered, to enhance the learning that is required for those topics. Your teacher will advise when a new homework book needs to be purchased during the year.

#### 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 14 credits or more in any mathematics achievement standards. MAT 201 will only enable the student to progress to year 13 Statistics 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 either Statistics and Modelling, or Calculus in year 13.

#### Total number of credits available:

17 credits internally, 8 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
AS91030	Apply measurement in solving problems	3	Internal	x	Term 1: Week 10
AS91032	Apply right angled triangles in solving measurement problems	3	Internal	x	Term 2: Week 4
AS91035	Investigate a given multivariate data set using the Stats enquiry cycle	4	Internal	L1 Literacy	Term 2: Week 8
AS91036	Investigate bivariate numerical data using the statistical enquiry cycle	3	Internal	L1 Literacy	Term 2: Week 11
AS91027	Apply algebraic methods in solving problems - (MCAT)	4	External	x	Term 3: Week 9
AS91037	Demonstrate understanding of chance and data	4	External	x	Term 4: NCEA External exam

This course is **endorsable**