

TAITA COLLEGE

L3 Mathematics

CAL 301

Course information:

This course will cover achievement standards that can be used for credit at level 1, level 2 or level 3 and is necessary if students wish to study mathematics at a Tertiary level.

A **graphics calculator** (Casio FX9750GII) 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.

Textbook

You will be issued with a textbook which you are expected to care for and to bring to each class.

If you do not return the textbook you were issued with or the book is returned in a condition significantly poorer than when it was issued you will be charged a fee.

Total number of credits available:

12 credits internally, 6 externally.

Re assessment opportunities:

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

| Standard | Title | Credits | Internal/External | L2 Literacy | Assessment Date |
|--|---|---------|-------------------|-------------|--|
| AS 91576 | Use Critical Path Analysis in solving problems | 2 | Internal | | Term 1: Week 5 |
| AS 91575 | Apply trigonometric Methods in solving problems | 4 | Internal | x | Term 1: Week 11 |
| AS 91587 | Apply Systems of Simultaneous Equations in solving problems | 3 | Internal | | Term 2: Week 4 |
| AS 91574 | Apply Linear Programming methods in solving problems | 3 | Internal | | Term 2: Week 8 |
| AS 91578 | Apply Differentiation methods in solving problems | 6 | External | x | Term 4: NCEA External exam |
| We will cover the following papers if we have enough time in term 3 and term 4 | | | | | |
| AS 9159 | Apply integration methods in solving problems | 6 | External | x | Term 4: NCEA External exam |
| AS 91573 | Apply the geometry of conic sections in solving problems | 3 | Internal | x | Term 4: After external exam |
| AS 91577 | Apply the algebra of complex number in solving problems | 5 | External | x | Option between Integration and Complex Numbers |

This course is **endorsable**

2020 PLANNER: CAL 301

| Week | DATES | EVENTS | Topics and Standards | DUE DATE |
|------------------------|--------------------|-------------------------------|--|----------|
| 1 | 29.Jan -31 Jan | | | |
| 2 | 03 Feb-07 Feb | 06 Feb Waitangi Day | Critical Paths (3.4) | |
| 3 | 10 Feb-14 Feb | | | |
| 4 | 17 Feb –21 Feb | | | |
| 5 | 24 Feb- 28 Feb | | AS 91576 – 2 credits | |
| 6 | 02 Mar - 06 Mar | | | |
| 7 | 09 Mar-13 Mar | 11-13 March Year 11 Ignite | Trigonometry (3.3) | |
| 8 | 16 Mar-20 Mar | | | |
| 9 | 23 Mar-27 March | | | |
| 10 | 30 Mar-03 April | | | |
| 11 | 06 April- 09 April | 10 April Good Friday | AS 91575 – 4 credits | |
| End of Term 1 Holidays | | | | |
| 1 | 28 April-01 May | 27 April Anzac Day | Systems of Simultaneous Equations (3.15) | |
| 2 | 04 May -08 May | | | |
| 3 | 11 May-15 May | | | |
| 4 | 18 May-22 May | | AS 91587 – 3 credits | |
| 5 | 25 May-29 May | | Linear Programming methods (3.2) | |
| 6 | 02 June 05 June | Queens Birthday | | |
| 7 | 08 June-12 June | | | |
| 8 | 15 June-19 June | | AS 91574 -3 credits | |
| 9 | 22 June-26 June | | Differentiation (3.6) | |
| 10 | 29 June-03 July | | | |
| End of Term 2 Holidays | | | | |
| 1 | 20 July-24 July | | | |
| 2 | 27 Jul- 31 July | | | |
| 3 | 03 Aug- 07 Aug | | | |
| 4 | 10 Aug-14 Aug | | | |
| 5 | 17 Aug-21 Aug | | AS91578 – 6 credits (external) | |
| 6 | 24 Aug- 28 Aug | | Choice of either Integration (3.7) or Complex Number (3.5) | |
| 7 | 31 Aug-04 Sept | | | |
| 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 | | AS 9159 – 6 credits / AS 91577 – 5 credits (External) | |
| 3 | 27 Oct- 30 Oct | Labour Day | Revision | |
| 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 | | Conics (3.1) who needs credits for their UE | |
| 9 | 07 Dec-09 Dec | | AS 91573 – 3 credits | |