

<b>Subject name</b>	<b>Specialist Mathematics</b>
<b>Subject code</b>	TSM (General subject)
<b>Additional Subject fee</b>	Nil
<b>Prerequisites</b>	Minimum B Maths. Must also be doing the Maths Methods taster as this is also the requirement for senior.

### Course Overview

In doing this one semester subject students will have the opportunity to:

- Develop the knowledge and skills fundamental to Specialist Mathematics.
- Experience the styles of assessment they will encounter in Specialist Mathematics.
- Become familiar with the use of graphic calculators and computer software/internet as learning aids.

### Course Outline

Topics involve introducing students to some of the content encountered in Unit 1 and Unit 2 of Senior Specialist Mathematics topics such as Matrices, Deductive geometry, Vectors, Matrices and Complex Numbers. There will be a focus on being able to generalise specific mathematical patterns and introducing students to the concept of Mathematical Proof.

Learning experiences will often involve the use of graphic calculators or computer software/ internet to assist students to formulate and display mathematical concepts and models.

### Assessment

The assessment in this subject will be modelled on the style of assessment done in senior Specialist Maths. There will be a formal test at the end of semester, and a Problem Solving and Modelling Task during the semester. Other formative assessment may be completed to check for understanding throughout the semester.

### Subject Requirements

Students will need to have a scientific calculator. The school sells the Ti-30XB scientific calculator (approximately \$25 at the Textbook Office) because its layout is similar to the Ti-84+ Graphic Calculators students will be using in senior mathematics. Access to the internet at home is also desirable.

### Career Opportunities

Specialist Mathematics is a General subject suited to students who are interested in pathways that lead to tertiary studies. A course of study in Specialist Mathematics can establish a basis for further education and employment in the fields of: Science, all branches of Mathematics and Statistics, Computer Science, Medicine, Engineering, Finance and Economics.