



<b>INCOMPATIBLE SUBJECTS</b>	GENERAL MATHEMATICS ESSENTIAL MATHEMATICS	<b>DEPENDENT SUBJECTS</b>	GENERAL ENGLISH MATHEMATICAL METHODS
<b>PRE REQUISITE SUBJECTS</b>	YEAR 10 EXTENSION MATHEMATICS - C YEAR 10 ENGLISH - C	<b>POTENTIAL QCE POINTS</b>	4
<b>FINANCIAL COMMITMENT</b>	NIL	<b>CONTRIBUTES TO ATAR</b>	YES

### COURSE CONTENT

UNIT 1	UNIT 2	UNIT 3	UNIT 4
Combinatorics, vectors in the plane and introduction to proof.	Complex numbers, trigonometry, functions and matrices.	Mathematical induction, and further vectors, matrices and complex numbers.	Further calculus including integration and applications of integration, rates of change and differential equations.  Statistical inference.
ASSESSMENT	ASSESSMENT	SUMMATIVE ASSESSMENT	SUMMATIVE ASSESSMENT
Exam Assignment: PSMT	Exam	Assignment: PSMT Exam	Exam Exam (External)

### COURSE REQUIREMENTS

Students require an approved Graphics Calculator for this subject. Click on the link below to find an approved calculator.  
[https://www.qcaa.qld.edu.au/downloads/senior-qce/common/snr\\_syll\\_ea\\_graphics\\_calculators\\_list.pdf](https://www.qcaa.qld.edu.au/downloads/senior-qce/common/snr_syll_ea_graphics_calculators_list.pdf)

Calculators may also be borrowed from the school, through the Student Resource Scheme.

### CAREER PATHWAYS

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.

### INTERNET LINKS

| <https://www.qcaa.qld.edu.au/senior/senior-subjects/mathematics/specialist-mathematics>

### REAL PEOPLE TALKING ABOUT SPECIALIST MATHEMATICS



Hear from Caboolture State High School students talking about their experiences in Specialist Mathematics.

In the following video, an engineering graduate talks about how maths has helped in coding drones to deliver packages:

| <https://www.youtube.com/watch?v=TBA2nsN88SA>

| [Careers Powered by Maths](#)

