Mathematics C
Years 11 and 12 – OP Authority Subject

Delivery mode
Online course. Internet access essential.
Online lessons are delivered through the EQ web conference.
Students are required to attend two online lessons each week delivered through web-conferencing (iConnect).
One tutorial per week is also available. Attendance is recommended.

Time commitment
The minimum time allocation per semester per senior subject is 55 hours.
It is an expectation that students spend at least 3 hours per week on this subject.
Students are expected to regularly complete formative class activities (online and paper).
Diagnostic work may be available for students to reflect and track their progress in the subject.

Prerequisites
A minimum achievement level of a B in the Year 10A advanced mathematics course across both semesters is required.
Students must also be enrolled in Mathematics B (concurrently) or have studied it previously.

Course outline
The course consists of the following core topics:
• Introduction to Groups
• Matrices and Applications
• Calculus
• Real and Complex Number Systems
• Vectors and Applications
• Structures and Patterns
and the following options
  ○ Dynamics
  ○ Conics/Advanced Periodic Functions

Mathematics C is a recommended companion subject to Mathematics B. It provides additional preparation for tertiary studies in subjects with high demand in mathematics, especially in the areas of science, medicine, mining and engineering, information technology, mathematics, finance, and business and economics.

Assessment
Each year the summative assessment consists of up to four supervised examinations and two alternative assessment tasks.
Summative assessment must be completed according to the Work Rate Calendar for this subject.

Requirements
Internet access is essential - preferred option is broadband.
Lesson outlines and extra support materials are delivered through Blackboard as part of The Learning Place.

Textbooks
Year 11
• Maths Quest Maths C Year 11 for Queensland 2nd edition, Simpson, Jacaranda.
  ISBN13 9780731408146
Year 12
• Maths Quest Maths C Year 12 for Queensland 2nd edition, Simpson, Jacaranda.
  ISBN13 9781742160405
Note: Electronic books may also be available for purchase.

NOTE: Textbooks must be purchased by students.
Textbooks are NOT supplied by the school.

Equipment
• Access to a computer graphing package (e.g. Graphmatica) is desirable.
• Access to a spreadsheeting package (e.g. Excel) is essential.
• Texas Instruments: TI-nspire (preferred). Note that the TI-nspire CAS is allowed but cannot be used in the QCS exam at the end of year 12. Other models may be used but not supported. Students will need to keep their manuals for reference.

DISCLAIMER: All information contained is accurate at the time of publication.