

Specialist Mathematics

Level: Stage 1

Course length: 1 semester (studied
in Semester 2)

Credit value: 10 Credits

Advice to students

It is desirable that students have a sound knowledge and understanding of number and algebraic processes to at least a high year 10 level.

Students intending to do Specialist Mathematics at Stage 2 will need to study three semesters of Mathematics at Stage 1 level Mathematics 1, 2 and Specialist Mathematics.

Course overview

Specialist Mathematics will enable students to develop an understanding of concepts and techniques drawn from trigonometry, complex numbers, vectors and matrices as used in Stage 2 Specialist Mathematics.

Topics studied will include:

- Trigonometry
- Real and complex numbers
- Vectors
- Matrices

Assessment

Assessment is conducted through a variety of tasks including for each semester:

- 3 Skills and Application tasks 75%
- 1 Mathematical Investigation 25%

Students who achieve a C grade or better in either semester meet the compulsory 10-credit numeracy requirement of the SACE.

Pathways

Successful completion in both semesters of Mathematical Methods and the semester of Specialist Mathematics will provide the assumed knowledge for SACE Stage 2 Specialist Mathematics and provide extra background knowledge for Stage 2 Mathematical Methods (currently known as Stage 2 Maths Studies).

Further information

Graphic calculators and computers are used extensively in all courses.

Marden Senior College uses Texas Instruments Graphics Calculators TI-83, TI-83 Plus and TI-84 Plus.