

# EXTENSION MATHEMATICS



## Elective Learning Area

### Course Outline

Extension Mathematics aims to provide the opportunity for future students to participate more fully in lifelong learning and to appreciate Mathematics.

### Pathways

Year 11 Mathematical  
Methods Year 11 Specialist  
Mathematics

### Structure

Areas of study	Core topics
Term 1	<ul style="list-style-type: none"><li>• Operations with polynomials</li><li>• Matrix arithmetic</li></ul>
Term 2	<ul style="list-style-type: none"><li>• Trigonometric functions</li><li>• Trigonometric graphing</li></ul>
Term 3	<ul style="list-style-type: none"><li>• Indices</li><li>• Logarithms</li><li>• Exponential Functions</li><li>• Graphing Exponentials</li></ul>
Term 4	<ul style="list-style-type: none"><li>• Vectors in the plane</li></ul>

### Assessment

Problem solving and modelling task  
Supervised tests

### Additional Costs

Nil unless excursions are arranged