

<b>Course</b> <b>Mathematics Standard</b>	<b>NESA Course Code:</b> Preliminary M511-1 HSC M5 2-12.5	
2 units for each of Preliminary and HSC year. Board Developed Course. <b>DOES</b> count in the 6 units of the Board Developed Courses required for the HSC. <b>DOES</b> count towards an ATAR. Prerequisites: This course assumes that students have achieved all Core topic outcomes in the Stage 5 Mathematics syllabus and the relevant Standard Path topic outcomes. Can be studied in conjunction with Numeracy CEC. <b>Exclusions:</b> Mathematics Advanced, Extension 1, Extension 2	<b>Course costs</b> Nil	
<b>Success Criteria (what skills and aptitudes you need to have for success in this subject)</b>		
<ul style="list-style-type: none"> <li>• Ability to use mathematics in real life situations.</li> <li>• Stage 5 grades at bands</li> </ul>		
<b>Course Description</b>		
<p>Mathematics Standard 11–12 focuses on enabling students to use mathematics to make informed decisions in their daily lives. Students develop understanding and competence through real-world applications of mathematics. Mathematics Standard 1 provides opportunities for students to build confidence and make mathematics meaningful. Students develop their mathematical knowledge and understanding through applying and modelling to prepare for post-school employment or further training. Mathematics Standard 2 provides a pathway for students to extend their mathematical thinking by examining more complex content, and through applications and modelling.</p>		
Through the study of Mathematics Standard 1, students:		
<ul style="list-style-type: none"> <li>• develop their knowledge, understanding and skills in Working mathematically and in communicating concisely and systematically</li> <li>• consider various applications of mathematics in a broad range of contemporary contexts through mathematical modelling and use these models to solve problems related to their present and future needs</li> <li>• gain an appropriate mathematical background for post-school employment or further training.</li> </ul>		
Through the study of Mathematics Standard 2, students:		
<ul style="list-style-type: none"> <li>• develop their knowledge, understanding and skills in Working mathematically and in communicating concisely and systematically</li> <li>• consider various applications of mathematics in a broad range of contemporary contexts through mathematical modelling and use these models to solve problems related to their present and future needs</li> <li>• develop an understanding of, and skills in, further aspects of mathematics for concurrent HSC studies</li> <li>• gain an appropriate mathematical background for a wide range of educational and employment aspirations.</li> </ul>		
The Year 11 course is undertaken by all students intending to study either the Year 12 Mathematics Standard 1 course or the Year 12 Mathematics Standard 2 course.		
<b>Main Topics Covered</b>		
<b>Preliminary course</b>	<b>HSC course</b>	
Algebra Financial Mathematics Measurement Networks Statistics	<b>Standard 1</b> Algebra Financial Mathematics Measurement Statistics	<b>Standard 2</b> Algebra Financial Mathematics Measurement Networks Statistics

<b>Particular Course Requirements: Nil</b>			
<b>Assessment for the HSC course</b>			
<b>External Assessment</b>	<b>Weighting</b>	<b>Internal Assessment</b>	<b>Weighting</b>
<p><b>Standard 1</b> The examination will consist of a written paper worth 80 marks.</p> <p>Time allowed: 2 hours plus 10 minutes reading time.</p> <p>A reference sheet will be provided. NESA-approved calculators may be used. The paper will consist of two sections.</p> <p>Section I (15 marks) •There will be objective-response questions to the value of 15 marks.</p> <p>Section II (65 marks) •Questions may contain parts. •There will be 25 to 30 items. •At least two items will be worth 4 or 5 marks.</p> <p>The HSC external examination in Mathematics Standard 1 is not compulsory. Students may choose to sit for an optional HSC examination.</p> <p>The examination will be based on the Mathematics Standard 1 Year 12 course and will focus on the Year 12 outcomes. The Mathematics Standard Year 11 course will be assumed knowledge for this examination and may be examined.</p> <p><b>Standard 2</b> The examination will consist of a written paper worth 100 marks. Time allowed: 2 hours and 30 minutes plus 10 minutes reading time. A reference sheet will be provided. NESA-approved calculators may be used.</p> <p>The paper will consist of two sections.</p> <p>Section I (15 marks) •There will be objective-response questions to the value of 15 marks.</p> <p>Section II (85 marks) •Questions may contain parts. •There will be 35 to 40 items. •At least two items will be worth 4 or 5 marks.</p> <p>The examination will be based on the Mathematics Standard 2 Year 12 course and will focus on the Year 12 outcomes. The Mathematics Standard Year 11 course will be assumed knowledge for this examination and may be examined.</p>	100%	<p>The objectives of the course are in two components: Knowledge and understanding of course content (50%) and Skills in Working Mathematically (50%).</p> <p>A number of tasks will be used to determine school-based assessment; any one task may contribute to measuring attainment of both components.</p> <p>Once the assessment of the HSC course has commenced, formal school-based assessment in this course will focus on the Year 12 outcomes.</p> <p>The Year 11 course is assumed knowledge and may be assessed</p>	100%