Mathematics Specialist | ATAR Year 12 | Summary of minor syllabus changes for 2025

The content identified by ~~strikethrough~~ has been deleted from the syllabus. The content in italics has been included.

3.1.7 prove and use de Moivre’s theorem ~~for integral powers~~

3.1.14 ~~consider~~ *determine and use* conjugate roots for polynomials with real coefficients

3.3.4 use vector equations of curves in two or three dimensions involving a parameter and determine ‘~~a corresponding’~~ *an equivalent* Cartesian equation in the two-dimensional case

3.3.6 examine the position*s* of two particles, each described as ~~a~~ vector function*s* of time, and determine if their paths cross or if the particles meet

3.3.10 examine the three cases for solutions of systems of equations – a unique solution, no solution, and infinitely many solutions – and the geometric interpretation of ~~a~~ *the* solution of a system of equations with three variables

4.3.5 *use* ~~examine~~ the approximate confidence interval $\left(\overline{x}-\frac{zs}{\sqrt{n}},\overline{x}+\frac{zs}{\sqrt{n}}\right)$ as an interval estimate for the population mean , where *z* is the appropriate quantile for the standard normal distribution

Assessment table – Year 12

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| Type of assessment | Weighting |
| **Response**~~Students respond using knowledge of mathematical facts, concepts and terminology, applying problem-solving skills and algorithms. Response tasks can include: tests, assignments, quizzes and observation checklists. Tests are administered under controlled and timed conditions.~~*Students apply mathematical knowledge and understanding of concepts, techniques and relationships to solve a mix of routine and non-routine questions, demonstrating their interpretation of concepts and results in applied and theoretical contexts. Response tasks can include: tests, assignments and multimedia representations.* | 40% |