

B1410 BSc (Mathematical Science) in Mathematics and Statistics (MJ-MASC) (with Mathematical Applications (ATAR) preparation.)

Academic Chair: [Graeme Hocking](#)

Start Date: Semester 1 2024

Year 1 – 2024	Semester 1 Units	CP	Semester 2 Units	CP
		MAS164 Fundamentals of Mathematics*	3	MAS162 Discrete Mathematics and Logic
	MAS183 Statistical Data Analysis**	3	MAS182 Introductory Calculus with Applications	3
	MSP100 Career Learning: Managing your career	3	BSC100 or ICT100	3
	Elective	3	Elective	3
	Total	12*	Total	12
Year 2 - 2025	Semester 1 Units	CP	Semester 2 Units	CP
		MAS161 Calculus and Matrix Algebra	3	MAS221 Mathematical Modelling & Differential Equations or MAS223 Applied Statistics or MAS225 Optimisation and Graph Theory
	MAS222 Probability and Statistical Inference or MAS224 Biostatistics	3	MAS221 Mathematical Modelling & Differential Equations or MAS223 Applied Statistics or MAS225 Optimisation and Graph Theory	3
	MSP200 or MSP201 or Elective	3	MSP200 or MSP201 or Elective	3
	Elective	3	Elective	3
	Total	12	Total	12
Year 3 - 2026	Semester 1 Units	CP	Semester 2 Units	CP
		MAS220 Mathematical Methods & Multivariable Calculus	3	2 or 1 of; MAS354 Modelling and Simulation or MAS353 Statistical Design and Data Analysis
	1 or 2 of; MAS351 Environmental & Biological Modelling MAS352 Time series Analysis	3	MAS354 Modelling and Simulation or MAS353 Statistical Design and Data Analysis or Elective	3
	MAS300 or Elective	3	MAS300 or Elective	3
	Elective	3	Elective	3
	Total	12	Total	12

TOTAL CREDIT POINTS 72

Semester 1 notes	Semester 2 notes
<p>*MAS164 is not necessary if you have Year 12 Mathematical Methods ATAR or equivalent. In that case you should see the Course plan for that situation.</p> <p>**If you feel very insecure about starting University Maths you may wish to do MAS183 in S2 and BSC100 or ICT100 in S1.</p> <p>Note: All 100 level units are available in both semesters, so if you start mid-year you can swap around to maintain the sequence.</p> <p>You should choose the unit in your major to specialise in either Mathematics or statistics. If unsure you should contact the Unit Coordinator.</p>	<p>All units marked as “elective” may be replaced by units in another Major to complete that major.</p> <p>Under normal circumstances, you would not choose to do both MAS223 AND MAS224.</p> <p>In Year 3, you need to choose 9 points from those listed as “1 or 2 of” and “2 or 1 of”.</p>

Please note: This course plan is a sample only and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as outlined in the [Handbook](#). Students should note that due to unit prerequisites, commencing study in Semester 2 may extend the duration of the course. This information is correct as at DD/MM/YY.