

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

Academic Chair: [Graeme Hocking](#)

Start Date: Semester 1 2024

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

**TOTAL CREDIT POINTS 72**

Semester 1 notes	Semester 2 notes
<p>*MAS182 is not necessary if you have Year 12 Specialist Mathematics ATAR or equivalent. In that case you may wish to do MAS161 in Semester 1.</p> <p><b>Note:</b> All 100 level units are available in both semesters, so if you start mid-year you can swap around to maintain the sequence. 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. Under normal circumstances, you would not choose to do both MAS223 AND MAS224. 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.