

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

Academic Chair: [Graeme Hocking](#)

Start Date: Semester 1 2025

Year 1 – 2025	Semester 1 Units	CP	Semester 2 Units	CP
	MAS182 Introductory Calculus with Applications*	3	PEN100 Transitioning Through Time and Space, or ICT100 Transition to IT	3
MAS183 Statistical Data Analysis	3	MAS161 Calculus and Matrix Algebra	3	
MSP100 Career Learning: Managing your career	3	MAS162 Discrete Mathematics and Logic**	3	
Elective	3	Elective	3	
<b>Total</b>	<b>12</b>	<b>Total</b>	<b>12</b>	
Year 2 - 2026	Semester 1 Units	CP	Semester 2 Units	CP
	Major Specified Elective Unit	3	Major Specified Elective Unit	3
Major Specified Elective Unit	3	Elective	3	
Spine Unit (MSP200 or MSP201)	3	Elective	3	
Elective	3	Elective	3	
<b>Total</b>	<b>12</b>	<b>Total</b>	<b>12</b>	
Year 3 - 2027	Semester 1 Units	CP	Semester 2 Units	CP
	Major Specified Elective Unit (Group D)	3	Major Specified Elective Unit (Group D)	3
Major Specified Elective Unit	3	Major Specified Elective Unit	3	
Spine Unit (MAS300 recommended)	3	Elective	3	
Elective	3	Elective	3	
<b>Total</b>	<b>12</b>	<b>Total</b>	<b>12</b>	

**TOTAL CREDIT POINTS 72**

**Major Specified Elective Units** – Select units from each Group of Specified Elective Units as indicated below:

*Note: You should choose the unit in your major to specialise in either Mathematics or Statistics. If unsure about a unit, you should contact the Unit Coordinator.*

Group A (Choose 1 from the following)	Group B (Choose 1 from the following)
MAS220 Mathematical Methods & Multivariable Calculus – S1 MAS221 Mathematical Modelling & Differential Equations – S2	MAS222 Probability and Statistical Inference – S1 MAS223 Applied Statistics – S2 MAS224 Biostatistics – S1
Group C (Choose 2 from the following)	Group D (Choose 3 from the following)
Choose from all units in Groups A, B and D, as well as: MAS225 Optimisation and Graph Theory – S2	MAS351 Environmental & Biological Modelling – S1 MAS352 Time series Analysis MAS224 Biostatistics – S1 MAS353 Statistical Design and Data Analysis – S2 MAS354 Modelling and Simulation – S2

## Notes

- \*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.
- \*\*If you are not required to complete MAS182 (see \*), you must complete MAS162 as a core unit for your course. If you are required to complete MAS182, MAS162 is not required; however it is recommended you complete this unit as an elective.
- Under normal circumstances, you would not choose to do both MAS223 AND MAS224.
- All units marked as “elective” may be replaced by units in another Major to complete that major.
- All 100 level units are available in both semesters, so if you start mid-year you can swap around to maintain the sequence.

**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 14/11/2024.