

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

Academic Chair: [Graeme Hocking](#)

Start Date: Semester 1 2025

Year 1 – 2025	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		PEN100 Transitioning Through Time and Space, or ICT100 Transition to IT	3
Elective	3		Elective	3
	Total	12	Total	12
Year 2 - 2026	Semester 1 Units	CP	Semester 2 Units	CP
	MAS161 Calculus and Matrix Algebra	3	Major Specified Elective Unit	3
Major Specified Elective Unit	3		Major Specified Elective Unit	3
Spine Unit (MSP200 or MSP201)	3		Elective	3
Elective	3		Elective	3
	Total	12	Total	12
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
MAS300 or Elective	3		Spine Unit (MAS300 recommended)	3
Elective	3		Elective	3
	Total	12	Total	12

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

*MAS164 is not necessary if you have Year 12 Mathematical Methods ATAR or equivalent. In that case you should see the Course plan “(with ATAR Mathematical Methods preparation)”.

**If you feel very insecure about starting University Maths you may wish to do MAS183 in S2 and PEN100 or ICT100 in S1. 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.

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.

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.