

MJ-MASC Mathematics and Statistics (with Mathematical Methods (ATAR) preparation.)

Academic Chair: [Graeme Hocking](#)

Start Date: Semester 2 2024

Year 1 – 2024			Semester 2 Units (2024)	CP
			MAS182 Introductory Calculus with Applications*	3
			MAS183 Statistical Data Analysis	3
			MSP100 Career Learning: Managing your career	3
			Elective	3
			Total	12
Year 2 - 2025	Semester 1 Units (2025)	CP	Semester 2 Units (2025)	CP
	MAS162 Discrete Mathematics and Logic	3	MAS223 Applied Statistics or Mathematical Modelling & Differential Equations or MAS225 Optimisation and Graph Theory	3
	MAS161 Calculus and Matrix Algebra	3	MAS223 Applied Statistics or Mathematical Modelling & Differential Equations or MAS225 Optimisation and Graph Theory or Elective	3
	BSC100 or ICT100	3	Elective or MSP200 or MSP201	3
	Elective	3	Elective	3
	Total	12*	Total	12
Year 3 - 2026	Semester 1 Units (2026)	CP	Semester 2 Units (2026)	CP
	MAS220 Mathematical Methods & Multivariable Calculus	3	2 or 1 of; MAS354 Modelling and Simulation or MAS353 Statistical Design and Data Analysis	3
	MAS222 Probability and Statistical Inference or MAS224 Biostatistics	3	MAS354 Modelling and Simulation or MAS353 Statistical Design and Data Analysis or Elective	3
	Elective or MSP200 or MSP201	3	MAS300 or Elective	3
	Elective	3	Elective	3
	Total	12	Total	12
Year 4 - 2027	Semester 1 Units (2027)	CP		
	1 or 2 of; MAS351 Environmental & Biological Modelling MAS352 Time series Analysis	3		
	MAS351 Environmental & Biological Modelling or MAS352 Time series Analysis or Elective	3		
	MAS300 or Elective	3		
	Elective	3		
	Total	12		

TOTAL CREDIT POINTS 72

Semester 1 notes

Semester 2 notes

You should choose the unit in your major to specialise in either Mathematics or statistics. If unsure you should contact the Unit Coordinator or Academic Chair.

In Year 3, you need to choose 9 points from those listed as “1 or 2 of” and “2 or 1 of”.

*MAS182 is not necessary if you have Year 12 Specialist Mathematics ATAR or equivalent. In that case you may wish to do MAS161 in your first Semester (2).

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 DD/MM/YY.