

B1410 MJ-MASC Mathematics and Statistics (with Mathematical Applications (ATAR) preparation)

Academic Chair: [Phil Schrader](#)

Start Date: Semester 1 2026

Year 1 – 2026	Semester 1 Units	CP	Semester 2 Units	CP
	MAS164 Fundamentals of Mathematics*	3	MAS162 Discrete Mathematics and Logic	3
	MAS183 Statistical Data Analysis	3	MAS182 Introductory Calculus with Applications	3
	Discovery unit** or Elective	3	Discovery unit** or Elective	3
	PEN100 or ICT100	3	Elective	3
	Total	12*	Total	12
Year 2 – 2027	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	3
	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
	Elective	3	Elective	3
	Elective	3	Elective	3
	Total	12	Total	12
Year 3 – 2028	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	3
	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

Notes

*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.

**You will need to take at least one discovery unit.

All units marked as “elective” may be replaced by units in another Major to complete that major.

In Year 3, you need to choose 9 points from those listed as “1 or 2 of” and “2 or 1 of”. You should choose the unit in your major to specialise in either Mathematics or Statistics. If unsure you should contact the Unit Coordinator.

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 1/12/2025.