

MJ-AMST Applied Mathematics and Statistics (Major) – Maths Methods Preparation

Academic Chair: [Phil Schrader](#)

Start Date: Semester 2, 2026

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](#). To explore alternative course plans, use the [Course Visualiser](#) or contact the Academic Chair.

Year 1 – 2026/27	Semester 2 2026	CP	Semester 1 2027	CP	
	Primary Course Unit	3	Primary Course Unit	3	
	Primary Course Unit	3	Primary Course Unit	3	
	MAS183 Statistical Data Analysis	3	MAS161 Calculus and Matrix Algebra	3	
	MAS182 Introductory Calculus with Applications*	3	Primary Course Unit or MAS162 Discrete Mathematics and Logic	3	
	Total	12	Total	12	
Year 2 – 2027/28	Semester 2 2027	CP	Semester 1 2028	CP	
	Primary Course Unit	3	Primary Course Unit	3	
	Primary Course unit	3	Primary Course Unit	3	
	MAS223 Applied Statistics or MAS221 Mathematical Modelling & Differential Equations or MAS225 Optimisation and Graph Theory	3	Primary Course Unit or MAS220 Mathematical Methods & Multivariable Calculus or MAS224 Biostatistics or MAS222 Probability and Statistical Inference	3	
	MAS223 Applied Statistics or MAS221 Mathematical Modelling & Differential Equations or MAS225 Optimisation and Graph Theory	3	MAS220 Mathematical Methods & Multivariable Calculus or MAS224 Biostatistics or MAS222 Probability and Statistical Inference	3	
	Total	12	Total	12	
Year 3 – 2028/29	Semester 2 2028	CP	Semester 1 2029	CP	
	Primary Course Unit	3	Primary Course Unit	3	
	Primary Course Unit	3	Primary Course Unit	3	
	Primary Course Unit or MAS353 – Statistical Design and Data Analysis or MAS354 – Modelling and Simulation	3	Primary Course Unit or MAS351 Environmental & Biological Modelling or MAS352 Time series Analysis	3	
	MAS353 – Statistical Design and Data Analysis or MAS354 – Modelling and Simulation	3	MAS351 Environmental & Biological Modelling or MAS352 Time series Analysis	3	
		Total	12	Total	12

TOTAL CREDIT POINTS 72

Notes

- You must complete at least one of MAS220 or MAS221, and one of MAS222, MAS223, or MAS224.
- You must complete at least 6 points from the 12 available at the MAS3xx level.

*MAS182 is not necessary if you have Year 12 Specialist Mathematics or equivalent. In this case you must take MAS162 instead.