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

Academic Chair:	Phil Schrader	Start Date:	Semester 1, 2026

	Semester 1 Units	CP	Semester 2 Units	CP
Year 1 – 2026	Primary Course Unit	3	Primary Course Unit	3
	Primary Course Unit	3	Primary Course Unit	3
	Primary Course Unit	3	MAS182 Introductory Calculus with Applications or MAS162 Discrete Mathematics and Logic	3
	MAS164 Fundamentals of Mathematics*	3	MAS183 Statistical Data Analysis	3
	Total	**12**	**Total**	**12**
	Semester 1 Units	**CP**	**Semester 2 Units**	**CP**
Year 2 - 2027	Primary Course Unit	3	Primary Course Unit	3
	Primary Course unit	3	Primary Course Unit	3
	MAS161 Calculus and Matrix Algebra	3	Primary Course Unit or MAS223 Applied Statistics or MAS221 Mathematical Modelling & Differential Equations** or MAS225 Optimisation and Graph Theory	3
	Primary Course unit or MAS224 Biostatistics	3	MAS223 Applied Statistics or MAS221 Mathematical Modelling & Differential Equations** or MAS225 Optimisation and Graph Theory	3
	Total	**12**	**Total**	**12**
	Semester 1 Units (2027)	**CP**	**Semester 2 Units**	**CP**
Year 3 - 2028	Primary Course Unit	3	Primary Course Unit	3
	Primary Course Unit	3	Primary Course Unit	3
	MAS220 Mathematical Methods & Multivariable Calculus**	3	Primary Course Unit	3
	Primary Course unit or MAS351 Environmental & Biological Modelling or MAS352 Time series Analysis or MAS222 Probability and Statistical Inference	3	MAS353 – Statistical Design and Data Analysis and/or MAS354 – Modelling and Simulation	3
	Total	**12**	**Total**	**12**

TOTAL CREDIT POINTS	**72**

Notes
*MAS164 is not necessary if you have Year 12 Mathematical Methods or equivalent. In that case see the Plan for that situation. **You must do at least one of MAS220 or MAS221. In Year 3 you must complete 6 points from the 12 available at the MAS3xx level.

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.