B1420 Bachelor of Data Analytics (Major: Data Science)

Academic Chair: **Start Date:**   Semester 1, 2026

	Semester 1 Units	CP	Semester 2 Units	CP
Year 1 – 2026	ICT145 Python Programming for Everyone	3	MAS162 Discrete Mathematics and Logic	3
	MAS164 Fundamentals of Mathematics*	3	MAS182 Introductory Calculus with Applications*	3
	MAS183 Statistical Data Analysis	3	Elective	3
	Discovery unit	3	Elective	3
	Winter Units	**CP**	**Summer Units**	**CP**
	Total	12	**Total**	12
Year 2 - 2027	Semester 1 Units	CP	Semester 2 Units	CP
	BSC203 Introduction to ICT Research Methods	3	ICT285 Databases	3
	MAS222 Probability and Statistical Inference	3	MAS225 Optimisation and Graph Theory	3
	Elective	3	MAS223 Applied Statistics	3
	Elective	3	ICT220 Big Data and Data Science	3
	Winter Units	**CP**	**Summer Units**	**CP**
	Total	12	**Total**	12
Year 3 - 2028	Semester 1 Units	CP	Semester 2 Units	CP
	Elective	3	ICT305 Data Visualisation and Simulation	3
	Elective	3	MAS221 Mathematical Modelling and Differential Equations	3
	Elective	3	Elective	3
	Elective	3	Elective	3
	Winter Units	**CP**	**Summer Units**	**CP**
	Total	12	**Total**	12

TOTAL CREDIT POINTS   72

Notes
*MAS164 and MAS182 are not necessary if you have Year 12 Specialist Mathematics ATAR or equivalent. In that case you may wish to do MAS161 instead. Two of the units marked as "elective" must be chosen from the **specified electives** below, the remainder may be replaced by units in another Major to complete that major. **Specified Electives**: • ICT159 Foundations of Programming • ICT167 Principles of Computer Science • MAS352 Time Series Analysis • MAS353 Statistical Design and Data Analysis

Note: Use the course visualiser to identify the discovery study unit and to generate an accurate double-major plan: https://handbook.murdoch.edu.au/course-visualiser/select-course

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. This information is correct as at 30/01/2026.