

# B1420 Bachelor of Data Analytics (Major: Data Science)

Academic Chair: Dr Farzana Jahan  
(farzana.jahan@murdoch.edu.au)

Start Date: Semester 2, 2026

Year 1 – 2026	Semester 1 Units	CP	Semester 2 Units	CP
			ICT145 Python Programming for Everyone	3
			MAS164 Fundamentals of Mathematics*	3
			MAS183 Statistical Data Analysis	3
			Discovery unit	3
			<b>Total</b>	<b>12</b>
Year 2 – 2027	Semester 1 Units	CP	Semester 2 Units	CP
	MAS162 Discrete Mathematics and Logic	3	ICT220 Big Data and Data Science	3
	MAS182 Introductory Calculus with Applications*	3	MAS223 Applied Statistics	3
	BSC203 Introduction to ICT Research Methods	3	ICT285 Databases	3
	Elective	3	MAS221 Mathematical Modelling and Differential Equations	3
	<b>Total</b>	<b>12</b>	<b>Total</b>	<b>12</b>
Year 3 – 2028	Semester 1 Units	CP	Semester 2 Units	CP
	MAS222 Probability and Statistical Inference	3	ICT305 Data Visualisation and Simulation	3
	Elective	3	MAS225 Optimisation and Graph Theory	3
	Elective	3	Elective	3
	Elective	3	Elective	3
	<b>Total</b>	<b>12</b>	<b>Total</b>	<b>12</b>
Year 4 -2029	Semester 1 Units	CP	Semester 2 Units	CP
	Elective	3		
	Elective	3		
	Elective	3		
	Elective	3		
	<b>Total</b>	<b>12</b>		

**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 25/05/2026.