

Suggested Course Map – C6004 Master of Data Science¹ - 2027

Course Architecture Key:

Part 1: Foundation studies	Part 2: Core studies	Part 3: Applied studies
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Industry Experience option

Year	Sem	Units			
1	1	FIT9132 Introduction to databases	FIT9136 Introduction to Python programming	FIT9137 Introduction to computer architecture and networks	MAT9004 Mathematical foundations for data science
	2	FIT5145 Introduction to data science	FIT5197 Statistical data modelling	FIT5202 Data processing for big data	FIT5125 IT research and innovation methods
2	1	FIT5057 Project management	FIT5147 Data exploration and visualisation	FIT5196 Data wrangling	Data science elective*
	2	FIT5120^ Industry experience studio project (12 points)		FIT5122 Professional practice	Level 5 Elective^

^Students who are approved to do FIT5241 Work integrated learning industry placement option will replace FIT5120 and the Level 5 elective.

Minor Thesis option

Year	Sem	Units			
1	1	FIT9132 Introduction to databases	FIT9136 Introduction to Python programming	FIT9137 Introduction to computer architecture and networks	MAT9004 Mathematical foundations for data science
	2	FIT5145 Introduction to data science	FIT5197 Statistical data modelling	FIT5202 Data processing for big data	FIT5125 IT research and innovation methods
2	1	FIT5126 Minor thesis part 1	FIT5057 Project management	FIT5147 Data exploration and visualisation	FIT5196 Data wrangling
	2	FIT5127 Minor thesis part 2	FIT5128 Minor thesis final	FIT5122 Professional practice	Data science elective*

*Data Science Elective Units

FIT5149 Applied data analysis
 FIT5201 Machine learning
 FIT5212 Data analysis for semi-structured data
 FIT5230 Malicious AI

¹ **Note on Progression:** semester structures shown are, for the most part, recommended suggestions rather than mandatory. However, prerequisite structures apply and the Industry experience studio project **must** be taken in the final semester of study.

