

Master of Data Science (C6004) – 2027

Industry experience stream

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

*Work integrated learning industry placement pathway

- Students accepted into the Work integrated learning industry placement pathway program will replace FIT5120 and the level 5 FIT elective with FIT5241 Work integrated learning industry placement (18 points).

Research stream**

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

*Data Science core units (choose 1):

FIT5149 Applied data analysis [FIT5197] FIT5230 Malicious AI [FIT9136]
 FIT5201 Machine learning [FIT5145 & MAT9004] BMS5021 Introduction to bioinformatics
 FIT5212 Data analysis for semi-structured data [FIT5197]

** Research stream requirements:

- To be eligible for the research stream, students must have successfully completed 24 points of level five (non-foundation) FIT units and have:
 - achieved an overall average of at least 80% across all level 5 units
 - achieved at least 75% in FIT5125 IT research and innovation methods, and
 - achieved an overall course average of 70%.
- Entry to the research stream is by application only. Check the link below for application deadlines. Students will be notified when applications open for each intake.
- Research stream information and application: <https://www.monash.edu/it/current-students/enrolment/honours-and-minor-thesis>

	FOUNDATION		CORE MASTER'S STUDIES		ADVANCED PRACTICE
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