

## Master of Data Science (C6004) – 2026

### Industry experience stream

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

### Research stream\*\*

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	Second Semester	<b>FIT5145</b> Introduction to data science	<b>FIT5125</b> IT research and innovation methods	<b>FIT5057</b> Project management	<b>FIT5197</b> Statistical data modelling
Year 2	First Semester	<b>FIT5126</b> Masters thesis part 1	<b>FIT5147</b> Data exploration and visualisation	<b>FIT5196</b> Data wrangling	<b>FIT5202</b> Data processing for big data
	Second Semester	<b>FIT5127</b> Masters thesis part 2	<b>FIT5128</b> Masters thesis final	<b>FIT5122</b> IT professional practice	<b>Data Science elective unit*</b>

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

Research stream** – July intake					
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**Notes**

<b>Credit points</b>	Unless specified, all units are worth 6 credit points Master of Data Science 16 units x 6cp = Total of 96 credit points
<b>Year Level Requirements</b>	1) A maximum of 24 points of level 9 (foundation) units will be counted; 2) At least 72 points must be completed at level 5.
<b>Unit requisites</b>	All pre-requisite and co-requisite requirements must be undertaken to be able to enrol into a specific unit
<b>Duration of degree</b>	2 years full-time, 4 years part-time
<b>Time limit</b>	Time limit = 6 years. Students have six years in which to complete this award from the time they commence. Periods of intermission are counted as part of the six years.
<b>Monash University handbook</b>	Students should follow the course requirements for the year the course was commenced <a href="https://handbook.monash.edu/browse/By%20Faculty/FacultyofInformationTechnology">https://handbook.monash.edu/browse/By%20Faculty/FacultyofInformationTechnology</a>