Master of Data Science (C6004) - 2023

Industry experience stream

Year 1	(48	credit	points)	١
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Semester 1	FIT9132 (S1, S2)	FIT9136 (S1, S2)	FIT9137 (S1, S2)	MAT9004 (S1, S2)
	Introduction to databases	Algorithms and	Introduction to computer	Mathematical foundations
		programming foundations in	architecture and networks	for data science and AI
		python		
Semester 2	FIT5145 (S1, S2)	FIT5125 (S1, S2)	FIT5202 (S2)	FIT5197 (S1, S2)
	Introduction to data science	IT research methods	Data processing for big data	Statistical data modelling
	[FIT9136]		[FIT9136]	[FIT9136 and MAT9004]

Year 2 (48 credit points)

Year 2 (48 c	redit points)			
Semester 1	FIT5147 (S1, S2)	FIT5196 (S1, S2)	FIT5057 (S1, S2)	Data Science elective unit*
	Data exploration and visualisation	Data wrangling [FIT9136]	Project management	
Semester 2	FIT5120 (S1, S2) Industry experience project (12 [Completion of 72 points, Co-requi	•	FIT5122 (S1, S2) IT professional practice [Co-requisite: FIT5120 or FIT5127]	Level 5 FIT Elective

Research stream**

Year 1 (48 credit points)

Semester 1	FIT9132 (S1, S2)	FIT9136 (S1, S2)	FIT9137 (S1, S2)	MAT9004 (S1, S2)
	Introduction to databases	Algorithms and	Introduction to computer	Mathematical foundations
		programming foundations in	architecture and networks	for data science and Al
		python		
Semester 2	FIT5145 (S1, S2)	FIT5125 (S1, S2)	FIT5202 (S2)	FIT5197 (S1, S2)
	Introduction to data science	IT research methods	Data processing for big data	Statistical data modelling
	[FIT9136 and FIT9132]		[FIT9136]	[FIT9136 and MAT9004]

Year 2 (48 credit points)

Semester 1	FIT5126 (S1, S2) Masters thesis part 1 [FIT5125]	FIT5057 (S1, S2) Project management	FIT5147 (S1, S2) Data exploration and visualisation	FIT5196 (S1, S2) Data wrangling [FIT9136]
Semester 2	FIT5127 (S1, S2) Masters thesis part 2 [FIT5126]	FIT5128 (S1, S2) Masters thesis final [Co-requisite: FIT5127]	FIT5122 (S1, S2) IT professional practice [Co-requisite: FIT5120 or FIT5127]	Data Science elective unit*

FOUNDATION	CORE MASTER'S STUDIES	ADVANCED PRACTICE	
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*Data Science core units (choose 1):

FIT5149 Applied data analysis FIT5230 Malicious AI

FIT5201 Machine learning

BMS5021 Introduction to bioinformatics
FIT5212 Data analysis for semi-structured data

BMS5022 Advanced bioinformatics

** 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 achieved an overall average of at least 75 per cent across all these units.
- Applications for the Research stream must be submitted by 31 January (for S1 thesis start) or 30 June (for S2 thesis start). 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

Notes

Credit points	Unless specified, all units are worth 6 credit points Master of Data Science 16 units x 6cp = Total of 96 credit points			
Year Level Requirements	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.			
Unit requisites	All pre-requisite and co-requisite requirements must be undertaken in order to be able to enrol into a specific unit			
Duration of degree	2 years full-time, 4 years part-time			
Time limit	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.			
Monash University handbook	Students should follow the course requirements for the year the course was commenced https://handbook.monash.edu/browse/By%20Faculty/FacultyofInformationTechnology			