Master of Data Science (C6004) - 2022

Industry experience stream

Year	1	48	credit	points)	

First Semester	FIT9132 Introduction to databases	FIT9136 Algorithms and programming foundations in python	FIT9137 Introduction to computer architecture and networks	MAT9004 Mathematical foundations for data science and Al
Second Semester	FIT5145 Introduction to data science [FIT9136 and FIT9132]	FIT5147 Data exploration and visualisation	FIT5196 Data wrangling [FIT9136]	FIT5197 Statistical data modelling [FIT9136 and MAT9004]

Year 2 (48 credit points)

First	FIT5125	Data Science core unit *	Data Science core unit *	Data Science core unit *	
Semester	IT research methods				
Second	FIT5120		FIT5122	Level 5 Elective	
Semester	Industry experience project (12 points		IT professional practice		
	[Completion of 72 points, Co-requi	site: FIT5122]	[Co-requisite: FIT5120]		

Research stream**

Year 1 (48 credit points)

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First	FIT9132	FIT9136	FIT9137	MAT9004		
Semester	Introduction to databases	Algorithms and programming	Introduction to computer	Mathematical foundations		
		foundations in python	architecture and networks	for data science and AI		
Second	FIT5145	FIT5125	FIT5196	FIT5197		
Semester	Introduction to data science [FIT9136 and FIT9132]	IT research methods	Data wrangling [FIT9136]	Statistical data modelling [FIT9136 and MAT9004]		

Year 2 (48 credit points)

First	FIT5126	FIT5127	FIT5147	Data Science core unit *
Semester	Masters thesis part 1	Masters thesis part 2 [Co-requisite: FIT5126]	Data exploration and	
	[FIT5125, Co-requisite: FIT5127]	[Co-requisite: FIT5126]	visualisation	
Second	FIT5228	FIT5229	Data Science core unit *	Data Science core unit *
Semester	Masters thesis part 3	Masters thesis final		
	[FIT5127, Co-requisite: FIT5229]	[Co-requisite: FIT5228]		

FOUNDATION	CORE MASTER'S STUDIES	ADVANCED PRACTICE

*Data Science core units:

FIT5149 Applied data analysis FIT5212 Data analysis for semi-structured data

FIT5201 Machine learning FIT5230 - Malicious AI

FIT5202 Data processing for big data

BMS5021 Introduction to bioinformatics
FIT5205 Data in society

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 of 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

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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