MASTER OF DATA SCIENCE (C6004) – 2017 RE-ENROLMENT COURSE MAP FOR STUDENTS COMMENCING 2016 – DATA SCIENCE STREAM

1. FOUNDATION UNITS (24 PTS)

Students must complete:				
a) three foundation units (18 points) from the list below:				
FIT9131 Programming foundations (MAT1830 Discrete mathematics for computer science or MAT MAT9004 Mathematical foundations for data science*	FIT9132 Introduction to databases 2003 Continuous mathematics for computer science), OR			
* Students that have satisfied the mathematics or statistics unit requirement must instead complete FIT5197 in the foundation block.				
b) one unit (6 points) from the Data Science stream foundation units below:				
DATA SCIENCE STREAM FIT9059 Algorithms and data structures OR FIT5211 Algorithm FIT9123 Introduction to business FIT9134 Computer architecture and operating systems FIT9135 Data communications	ns and Data Structures			
2. CORE UNITS (48 PTS)				
Students must complete:				
a) three units (18 points) from the list below:				
FIT5145 Introduction to data structures FIT5197 Modelling for data analysis	FIT5196 Data wrangling			
DATA SCIENCE STREAM				
b) four units (24 points) selected from:				
FIT5097 Business intelligence modelling FIT5147 Data exploration and visualisation FIT5149 Applied data analysis FIT5206 Digital continuity	FIT5146 Data curation and management FIT5148 Distributed and big data processing FIT5205 Data in society			
c) one elective unit (6 points) selected from any unit in b) not already of DATA SCIENCE ELECTIVES LIST (note: not all units will be offered every to be a selected from any unit in b) and already of the control of th				
FIT5046 Mobile and distributed computing systems FIT5087 Archival systems FIT5097 Business intelligence modelling FIT5107 Managing business records FIT5146 Data curation and management FIT5195 Business intelligence and data warehousing FIT5204 Heritage informatics	FIT5047 Intelligent systems FIT5088 Information and knowledge management systems FIT5106 Information organisation FIT5139 Advanced distributed and parallel systems FIT5166 Information retrieval systems FIT5201 Data analysis FIT5205 Data in society			
FIT5206 Digital continuity	FIT5207 Data for sustainability			

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3. ADVANCED PRACTICE (24 PTS)

Students must complete 24 points of either research† or industry‡ units, as follows:

RESEARCH UNITS† INDUSTRY UNITS‡		<u>TS</u> ‡		
		FIT5125 IT research methods		FIT5120 Industry experience studio project (12 points)
		FIT5126 Masters thesis part 1		FIT5122 Professional practice
		FIT5127 Masters thesis part 2		one unit from the approved Data Science elective list
		FIT5128 Masters thesis final		ı

‡ Industry component to be completed in final semester

NOTES:

Credit Points		
Unit Requisites		
Degree Duration	ree Duration 1, 1.5, or 2 years full-time, 2, 3, or 4 years part-time	
Time Limit	Time limit = (Degree Duration x 2) + 2 = 4, 5, or 6 years in which to complete this award from the time they first commence. Periods of intermission are counted toward the time limit.	
1	Students should follow course map in conjunction with the course requirements for the year the course was commenced http://monash.edu/pubs/handbooks/courses/index-byfaculty-it.html	

[†] Research component to be completed across final two semesters: To enrol in the research units, students must have successfully completed 24 points of level five units and have achieved an overall average of at least 75% across all units.