Science

Master of Data Science and Decisions

8959 - Handbook

2025 Commencing Students

Program Structure

PROGRAM STRUCTURE	**Program Core Courses**	**66 UOC (11 Courses)**	**96 UOC (16 Courses)**
	Specialisation Core Courses	**30 UOC (5 courses)**	

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2025 Commencing Students

Approved Specialisations – Click the page number to go directly to that page.

Science

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Term 1 2025 Commencing Students – Behavioural Data Science and Decisions (ECONZT)
Choose from available proposed courses in each year

Year 1		
COMP9311 (T1, T2, T3)	**ECON6202** (T2)	**ECON6312** (T3)
ECON5103 (T1, T3)	**DATA9001** (T2)	**MATH5855** (T3)
COMP9020 (T1, T2, T3) OR **COMP9021** (T1, T2, T3)	**ECON5111** (T2)	

Year 2		
MATH5905 (T1)	**DATA5011** (T1, T2, T3)	**DATA5012** (T1, T2, T3)
COMP9417 (T1, T2) OR **MATH5836** (T3) (See Note 3)	**DATA5002** (T2)	**ECON6313** (T3)
6 UOC Behavioural Data Science and Decisions Core Course (See Note 1)	**6 UOC Behavioural Data Science and Decisions Prescribed Elective (See Note 2)**	

NOTES

This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.

See Program Structure on page 1 for a guide on the terminology and colour codes used in this progression plan.

-DATA5011 & DATA5012 – entry requirements are 36 UOC and WAM of 70 (Contact the School for permission to enrol pg.mathsstats@unsw.edu.au)
-ECON6313 – requires the completion of ECON5101. Students is recommended to take ECON5101 towards their Behavioural Data Science and Decisions Prescribed Elective.
-NOTE 1(Core): ECON5324 (T1), INFS5831 (T1), MARK5822 (T1, T2), INFS5700 (T1, T3), FINS5548 (T2, T3), ECON5206 (T3), ECON6307 (T3),
-NOTE 2: COMP6714 (T3), COMP9024 (T1, T2, T3), COMP9313 (T2, T3), ECON5101 (T1, T2, T3, Summer), ECON5205 (T1, T3), ECON5206 (T3), ECON5324 (T1), ECON5408 (T1, T3), ECON6307 (T3), ECON6313 (T3), FINS5548 (T2, T3), INFS5700 (T1, T3), INFS5831 (T1), MARK5822 (T1, T2), MATH5165 (T1), MATH5171 (T3), MATH5425 (T1), MATH5806 (T2),
-NOTE 3: Students can enrol in COMP9417 or MATH5836 but not both as they exclude each other

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Term 3 2025 Commencing Students – Behavioural Data Science and Decisions (ECONZT)
Choose from available proposed courses in each year

Year 1		
		COMP9311 (T1, T2, T3)
		ECON5103 (T1, T3)
		COMP9020 (T1, T2, T3) OR **COMP9021** (T1, T2, T3)

Year 2		
MATH5905 (T1)	**DATA5002** (T2)	**ECON6313** (T3)
COMP9417 (T1, T2) OR **MATH5836** (T3) (See Note 3)	**DATA9001** (T2)	**MATH5855** (T3)
	ECON6202 (T2)	**ECON6312** (T3)

Year 3		
DATA5011 (T1, T2, T3)	**DATA5012** (T1, T2, T3)	
6 UOC Behavioural Data Science and Decisions Core Course (See Note 1)	**6 UOC Behavioural Data Science and Decisions Prescribed Elective (See Note 2)**	
	ECON5111 (T2)	

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-DATA5011 & DATA5012 – entry requirements are 36 UOC and WAM of 70 (Contact the School for permission to enrol pg.mathsstats@unsw.edu.au)
-ECON6313 – requires the completion of ECON5101. Students is recommended to take ECON5101 towards their Behavioural Data Science and Decisions Prescribed Elective.
-NOTE 1(Core): ECON5324 (T1), INFS5831 (T1), MARK5822 (T1, T2), INFS5700 (T1, T3), FINS5548 (T2, T3), ECON5206 (T3), ECON6307 (T3),
-NOTE 2: COMP6714 (T3), COMP9024 (T1, T2, T3), COMP9313 (T2, T3), ECON5101 (T1, T2, T3, Summer), ECON5205 (T1, T3), ECON5206 (T3), ECON5324 (T1), ECON5408 (T1, T3), ECON6307 (T3), ECON6313 (T3), FINS5548 (T2, T3), INFS5700 (T1, T3), INFS5831 (T1), MARK5822 (T1, T2), MATH5165 (T1), MATH5171 (T3), MATH5425 (T1), MATH5806 (T2),
-NOTE 3: Students can enrol in COMP9417 or MATH5836 but not both as they exclude each other

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Term 1 2025 Commencing Students – Business Data Science and Decisions (ECONZS)

Choose from available proposed courses in each year

Year 1		
COMP9311 (T1, T2, T3)	**ECON6302** (T2)	**6 UOC Business Data Science and Decisions Core Course (See Note 1)**
ECON5103 (T1, T3)	**DATA9001** (T2)	**6 UOC Business Data Science and Decisions Prescribed Elective (See Note 2)**
COMP9020 (T1, T2, T3) OR **COMP9021** (T1, T2, T3)	**ECON5111** (T2)	

Year 2		
MATH5905 (T1)	**DATA5011** (T1, T2, T3)	**DATA5012** (T1, T2, T3)
COMP9417 (T1, T2) OR **MATH5836** (T3) (See Note 3)	**DATA5002** (T2)	**MATH5855** (T3)
ECON5321 (T1)		**6 UOC Business Data Science and Decisions Core Course (See Note 1)**

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-DATA5011 & DATA5012 – entry requirements are 36 UOC and WAM of 70 (Contact the School for permission to enrol pg.mathsstats@unsw.edu.au)
-ECON5321 – requires the completion of ECON5101. Students is recommended to take ECON5101 towards their Business Data Science and Decisions Prescribed Elective.
-NOTE 1: ECON5206 (T3), ECON5324 (T1), ECON6307 (T3), ECON6312 (T3), ECON6313 (T3), FINS5548 (T2, T3), INFS5700 (T1, T3), INFS5831 (T1), MARK5822 (T1, T2)
-NOTE 2: COMP6714 (T3), COMP9024 (T1, T2, T3), COMP9313 (T2, T3), ECON5101 (T1, T2, T3, Summer), ECON5205 (T1, T3), ECON5206 (T3), ECON5324 (T1), ECON5408 (T1, T3), ECON6307 (T3), ECON6313 (T3), FINS5548 (T2, T3), INFS5700 (T1, T3), INFS5831 (T1), MARK5822 (T1, T2), MATH5165 (T1), MATH5171 (T3), MATH5425 (T1), MATH5806 (T2),
-NOTE 3: Students can enrol in COMP9417 or MATH5836 but are unable to take both as they exclude each other

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Term 3 2025 Commencing Students – Business Data Science and Decisions (ECONZS)

Choose from available proposed courses in each year

Year 1		
		COMP9311 (T1, T2, T3)
		ECON5103 (T1, T3)
		COMP9020 (T1, T2, T3) OR **COMP9021** (T1, T2, T3)

Year 2		
MATH5905 (T1)	**DATA5002** (T2)	**MATH5855** (T3)
COMP9417 (T1, T2) OR **MATH5836** (T3) (See Note 3)	**6 UOC Business Data Science and Decisions Core Course** (See Note 1)	**6 UOC Business Data Science and Decisions Core Course** (See Note 1)
	DATA9001 (T2)	**6 UOC Business Data Science and Decisions Prescribed Elective** (See Note 2)

Year 3		
DATA5011 (T1, T2, T3)	**DATA5012** (T1, T2, T3)	
ECON5321 (T1)	**ECON6302** (T2)	
	ECON5111 (T2)	

NOTES

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-DATA5011 & DATA5012 – entry requirements are 36 UOC and WAM of 70 (Contact the School for permission to enrol pg.mathsstats@unsw.edu.au)
-ECON5321 – requires the completion of ECON5101. Students is recommended to take ECON5101 towards their Business Data Science and Decisions Prescribed Elective.
-NOTE 1: ECON5206 (T3), ECON5324 (T1), ECON6307 (T3), ECON6312 (T3), ECON6313 (T3), FINS5548 (T2, T3), INFS5700 (T1, T3), INFS5831 (T1), MARK5822 (T1, T2)
-NOTE 2: COMP6714 (T3), COMP9024 (T1, T2, T3), COMP9313 (T2, T3), ECON5101 (T1, T2, T3, Summer), ECON5205 (T1, T3), ECON5206 (T3), ECON5324 (T1), ECON5408 (T1, T3), ECON6307 (T3), ECON6313 (T3), FINS5548 (T2, T3), INFS5700 (T1, T3), INFS5831 (T1), MARK5822 (T1, T2), MATH5165 (T1), MATH5171 (T3), MATH5425 (T1), MATH5806 (T2),
-NOTE 3: Students can enrol in COMP9417 or MATH5836 but are unable to take both as they exclude each other

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Term 1 2025 Commencing Students – Computational Data Science and Decisions (COMPQS)
Choose from available proposed courses in each year

Year 1		
COMP9311 (T1, T2, T3)	**COMP9024** (T2)	**COMP9021** (T1, T2, T3) (See Note 1)
ECON5103 (T1, T3)	**DATA9001** (T2)	**MATH5855** (T3)
***COMP9020** (T1, T2, T3) (See Note 1)	**ECON5111** (T2)	

Year 2		
MATH5905 (T1)	**DATA5011** (T1, T2, T3)	**DATA5012** (T1, T2, T3)
COMP9417 (T1, T2) OR **MATH5836** (T3) (See Note 3)	**DATA5002** (T2)	**6 UOC Prescribed Elective (See Note 2)**
6 UOC Prescribed Elective (See Note 2)		**COMP6714** (T3) OR **COMP9313** (T2, T3)

NOTES

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See Program Structure on page 1 for a guide on the terminology and colour codes used in this progression plan.

-DATA5011 & DATA5012 (Compulsory project); Entry requirements are 36 UOC and WAM of 70 over 2 consecutive terms in the final year. Contact the School for permission to enrol pg.mathsstats@unsw.edu.au.
-NOTE 1: Students must take 24 UOC of the following courses. Note that two of COMP9020, COMP9021, COMP9417 can be counted to the program core; this allows for 6 UOC from the one-of core group COMP6714 or COMP9313, and 6 UOC from the Prescribed Electives list below).
-NOTE 2: ACTL3142 (T2), ECON5206 (T3), ECON5321 (T1), ECON5324 (T1), ECON6202 (T2), ECON6307 (T3), FINS5548 (T2, T3), INFS5700 (T1, T3), INFS5831 (T1), MARK5822 (T1, T2), MATH5165 (T1), MATH5171 (T3), MATH5425 (T1), MATH5806 (T2), MATH5836 (T3), MATH5845 (T2), MATH5895 (T3), MATH5945 (T3), MATH5960 (T3). Please note MATH5960 is recommended.
-NOTE 3: Students can enrol in COMP9417 or MATH5836 but are unable to take both as they exclude each other

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Term 3 2025 Commencing Students – Computational Data Science and Decisions (COMPQS)
Choose from available proposed courses in each year

Year 1		
		COMP9311 (T1, T2, T3)
		ECON5103 (T1, T3)
		***COMP9020** (T1, T2, T3) (See Note 1)

Year 2		
MATH5905 (T1)	**DATA5002** (T2)	**MATH5855** (T3)
COMP9417 (T1, T2) OR **MATH5836** (T3) (See Note 3)	**COMP9024** (T1, T2, T3)	**COMP6714** (T3) OR **COMP9313** (T2, T3)
	DATA9001 (T2)	**6 UOC Prescribed Elective** (See Note 2)

Year 3		
DATA5011 (T1, T2, T3)	**DATA5012** (T1, T2, T3)	
COMP9021 (T1, T2, T3) (See Note 1)	**6 UOC Prescribed Elective** (See Note 2)	
	ECON5111 (T2)	

NOTES	
	This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here. **See Program Structure on page 1 for a guide on the terminology and colour codes used in this progression plan.** **-DATA5011 & DATA5012 (Compulsory project); Entry requirements are 36 UOC and WAM of 70 over 2 consecutive terms in the final year. Contact the School for permission to enrol pg.mathsstats@unsw.edu.au.** **-NOTE 1: Students must take 24 UOC of the following courses. Note that two of COMP9020, COMP9021, COMP9417 can be counted to the program core; this allows for 6 UOC from the one-of core group COMP6714 or COMP9313, and 6 UOC from the Prescribed Electives list below).** **-NOTE 2: ACTL3142 (T2), ECON5206 (T3), ECON5321 (T1), ECON5324 (T1), ECON6202 (T2), ECON6307 (T3), FINS5548 (T2, T3), INFS5700 (T1, T3), INFS5831 (T1), MARK5822 (T1, T2), MATH5165 (T1), MATH5171 (T3), MATH5425 (T1), MATH5806 (T2), MATH5836 (T3), MATH5845 (T2), MATH5895 (T3), MATH5945 (T3), MATH5960 (T3). Please note MATH5960 is recommended.** **-NOTE 3: Students can enrol in COMP9417 or MATH5836 but are unable to take both as they exclude each other**

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Term 1 2025 Commencing Students – Quantitative Data Science and Decisions (MATHNT)

Choose from available proposed courses in each year

Year 1		
COMP9311 (T1, T2, T3)	**DATA5002** (T2)	**6 UOC Quantitative Data Science and Decisions Core Course (See Note 1)**
ECON5103 (T1, T3)	**DATA9001** (T2)	**6 UOC Quantitative Data Science and Decisions Core Course (See Note 1)**
COMP9020 (T1, T2, T3) OR **COMP9021** (T1, T2, T3)	**ECON5111** (T2)	

Year 2		
MATH5905 (T1)	**DATA5011** (T1, T2, T3)	**DATA5012** (T1, T2, T3)
COMP9417 (T1, T2) OR **MATH5836** (T3) (See Note 3)	**6 UOC Quantitative Data Science and Decisions Core Course (See Note 1)**	**MATH5855** (T3)
6 UOC Quantitative Data Science and Decisions Core Course (See Note 1)	**6 UOC Quantitative Data Science and Decisions Prescribed Elective (See Note 2)**	

NOTES

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-DATA5011 & DATA5012 – entry requirements are 36 UOC and WAM of 70 (Contact the School for permission to enrol pg.mathsstats@unsw.edu.au)
-NOTE 1: MATH5165 (T1), MATH5171 (T3), MATH5425 (T1), MATH5806 (T2), MATH5836 (T3) , MATH5845 (T2), MATH5895 (T3), MATH5945 (T3), MATH5960 (T3)
-NOTE 2: ACTL3142 (T2), COMP6714 (T3), COMP9024 (T1, T2, T3), COMP9313 (T2, T3), ECON5206 (T3), ECON5321 (T1), ECON5324 (T1), ECON6202 (T2), ECON6307 (T3), FINS5548 (T2, T3), INFS5700 (T1, T3), INFS5831 (T1), MARK5822 (T1, T2)
-NOTE 3: Students can enrol in COMP9417 or MATH5836 but not both as they exclude each other

Science

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Term 3 2025 Commencing Students – Quantitative Data Science and Decisions (MATHNT)

Choose from available proposed courses in each year

Year 1		
		COMP9311 (T1, T2, T3)
		ECON5103 (T1, T3)
		COMP9020 (T1, T2, T3) OR **COMP9021** (T1, T2, T3)

Year 2		
MATH5905 (T1)	**DATA5002** (T2)	**MATH5855** (T3)
COMP9417 (T1, T2) OR **MATH5836** (T3) (See Note 3)	**DATA9001** (T2)	**6 UOC Quantitative Data Science and Decisions Core Course** (See Note 1)
	6 UOC Quantitative Data Science and Decisions Core Course (See Note 1)	**6 UOC Quantitative Data Science and Decisions Prescribed Elective** (See Note 2)

Year 3		
DATA5011 (T1, T2, T3)	**DATA5012** (T1, T2, T3)	
6 UOC Quantitative Data Science and Decisions Core Course (See Note 1)	**6 UOC Quantitative Data Science and Decisions Core Course** (See Note 1)	
	ECON5111 (T2)	

NOTES

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-DATA5011 & DATA5012 – entry requirements are 36 UOC and WAM of 70 (Contact the School for permission to enrol pg.mathsstats@unsw.edu.au)
-NOTE 1: MATH5165 (T1), MATH5171 (T3), MATH5425 (T1), MATH5806 (T2), MATH5836 (T3) , MATH5845 (T2), MATH5895 (T3), MATH5945 (T3), MATH5960 (T3)
-NOTE 2: ACTL3142 (T2), COMP6714 (T3), COMP9024 (T1, T2, T3), COMP9313 (T2, T3), ECON5206 (T3), ECON5321 (T1), ECON5324 (T1), ECON6202 (T2), ECON6307 (T3), FINS5548 (T2, T3), INFS5700 (T1, T3), INFS5831 (T1), MARK5822 (T1, T2)
-NOTE 3: Students can enrol in COMP9417 or MATH5836 but not both as they exclude each other