Science

Master of Data Science and Decisions 8959 - Handbook



2024 Commencing Students
Program Structure

| JCTURE | Program Core Courses | 66 UOC (11 Courses) | 96 UOC (16 Courses) |
|--------|-----------------------------|---------------------|------------------------|
| PRC | Specialisation Core Courses | 30 UOC (5 courses) | , |

Science

Master of Data Science and Decisions 8959



2024 Commencing Students

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

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Term 1 2024 Commencing Students – Behavioural Data Science and Decisions (ECONZT) Choose from available proposed courses in each year

| Year 1 | | |
|---|------------------|----------|
| COMP9311 | ECON6202 | ECON6312 |
| (T1, T2, T3) | (T2) | (T3) |
| ECON5103 | DATA9001 | MATH5855 |
| (T1, T3) | (T2) | (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) | |

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.

OTE

- -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), ECON5324 (T1), INFS5831 (T1, 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



Term 3 2024 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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OTE

-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



Term 1 2024 Commencing Students – Business Data Science and Decisions (ECONZS) Choose from available proposed courses in each year

| Year 1 | | |
|---|------------------|---|
| COMP9311 (T1, T2, T3) | ECON6202 (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) | МАТН5855 ^(Т3) |
| ECON5321 (T1) | | 6 UOC Business Data Science and Decisions Core Course (See Note 1) |

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OTES

-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), COMP9913 (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), INFS5700 (T1, T3), MATH5806 (T2), NOTE 3: Students can enrol in COMP9417 or MATH5836 but are unable to take both as they exclude each other



Term 3 2024 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) | ECON6202 (T2) | | |
| | 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)
-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), 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), MATH5806 (T2),
-NOTE 3: Students can enrol in COMP9417 or MATH5836 but are unable to take both as they exclude each other

Information is correct as of 04/06/2024 and is based on proposed prerequisites and course availability. This is to be used as a guide only and does not replace individual advice. Refer to the Handbook and Class Timetable for the relevant term to check availability for these courses. Contact The Nucleus: Student Hub for further assistance. CRICOS Provider Code 00098G



Term 1 2024 Commencing Students – Computational Data Science and Decisions (COMPOS)
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, 12, 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) |

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-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), 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



Term 3 2024 Commencing Students – Computational Data Science and Decisions (COMPOS)
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, 172, T3) (See Note 1) | 6 UOC Prescribed Elective (See Note 2) | |
| | ECON5111 (T2) | |

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OTES

-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), 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



Term 1 2024 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) | |

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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), ECON6307 (T3), 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

NOTES



Term 3 2024 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) | |

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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

NOTES