

Course progression map for 2025 commencing students

This progression map provides advice on the suitable sequencing of units and guidance on how to plan unit enrolment for each semester of study. It does not substitute for the list of required units as described in the course 'Requirements' section of the Handbook.

S2010 Bachelor of Applied Data Science

Note: Students undertaking their studies at the **Clayton campus**, please follow this map.

| | | | | |
|----------------------|---|---|---|---|
| Year 1 Semester 1 | ADS1001 Data challenges 1 | MAT1830 Discrete mathematics for computer science | FIT1045 Introduction to programming | Applied studies |
| Year 1 Semester 2 | ADS1002 Data challenges 2 | MAT1841 Continuous mathematics for computer science | FIT1008 Fundamentals of algorithms | Applied studies |
| Year 2 Semester 1 | ADS2001 Data challenges 3 | MTH2222 Maths of uncertainty OR MTH2225 Mathematics of uncertainty (adv) | MTH2019 Multivariate mathematics for data science | Applied studies |
| Year 2 Semester 2 | ADS2002 Data challenges 4 | FIT2086 Modelling for data analysis | MTH2051 Introduction to computational mathematics | Applied studies |
| Year 3 Semester 1 | Free elective | Free elective | MTH3241 Random processes in the sciences and engineering OR MTH3320 Computational linear algebra | MTH3330 Optimisation and operations research |
| Year 3 Semester 2 | ADS3001 Advanced data challenges (12 points) | | FIT3181 Deep learning | FIT3152 Data analytics (Sem 1) OR FIT3154 Advanced data analysis (Sem 2) |

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|---|-----------------------------|
| A | Data challenges |
| B | Techniques for data science |
| C | Applied studies |
| D | Free elective |

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S2010 Bachelor of Applied Data Science

Note: Students undertaking their studies at the **Malaysia campus commencing in February**, please follow this map.

| | | | | |
|----------------------|--|---|---|-----------------|
| Year 1 Semester 1 | ADS1001 Data challenges 1 | FIT1058 Foundations of computing | ENG1090 Foundation mathematics | Applied studies |
| Year 1 Semester 2 | ADS1002 Data challenges 2 | FIT1045 Introduction to programming | ENG1005 Engineering mathematics | Applied studies |
| Year 2 Semester 1 | ADS2001 Data challenges 3 | FIT1008 Fundamentals of algorithms | MTH2019 Multivariate mathematics for data science | Applied studies |
| Year 2 Semester 2 | ADS2002 Data challenges 4 | FIT2086 Modelling for data analysis | MTH2051 Introduction to computational mathematics | Applied studies |
| Year 3 Semester 1 | MTH3330 Optimisation and operations research | FIT3152 Data analytics | MTH3320 Computational linear algebra | Free elective |
| Year 3 Semester 2 | ADS3001 Advanced data challenges (12 points) | FIT3181 Deep learning | | Free elective |

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S2010 Bachelor of Applied Data Science

Note: Students undertaking their studies at the **Malaysia campus commencing in July/October**, please follow this map.

| | | | | |
|----------------------|---|--|--|---|
| Year 1 Semester 2 | FIT1045 Introduction to programming | FIT1058 Foundations of computing | ENG1090 Foundation mathematics | Applied studies |
| Year 2 Semester 1 | ADS1001 Data challenges 1 | FIT1008 Fundamentals of algorithms | ENG1005 Engineering mathematics | Applied studies |
| Year 2 Semester 2 | ADS1002 Data challenges 2 | FIT2086 Modelling for data analysis | Free elective | Applied studies |
| Year 3 Semester 1 | ADS2001 Data challenges 3 | MTH2019 Multivariate mathematics for data science | FIT3152 Data analytics | Applied studies |
| Year 3 Semester 2 | ADS2002 Data challenges 4 | FIT3181 Deep learning | MTH2051 Introduction to computational mathematics | Free elective |
| Year 4 Semester 1 | ADS3001 Advanced data challenges (12 points) | | MTH3320 Computational linear algebra | MTH3330 Optimisation and operations research |

| | |
|---|-----------------------------|
| A | Data challenges |
| B | Techniques for data science |
| C | Applied studies |
| D | Free elective |

Source: Monash University 2025 Handbook – <https://www.monash.edu/students/handbooks/maps/2025/map-s2010.pdf>
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