

## Course progression map for 2024 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 <b>OR</b> 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 <b>OR</b> 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) <b>OR</b> FIT3154 Advanced data analysis (Sem 2)

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	MAT1830 Discrete mathematics for computer science	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	MAT1830 Discrete mathematics for computer science	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 2024 Handbook – <https://www.monash.edu/students/handbooks/maps/2024/map-s2010.pdf>  
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