

Course progression map for 2027 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.

S3003 Bachelor of Applied Data Science Advanced (Honours)

Year 1 Semester 1	ADS1001 Data challenges 1	FIT1045 Software development 1: Programming foundations	MTH1020* Analysis of change or MAT1830* Discrete mathematics for computer science	Applied studies
Year 1 Semester 2	ADS1002 Data challenges 2	FIT1062 Data management	MTH1030 Techniques for modelling	Applied studies
Year 2 Semester 1	ADS2001 Data challenges 3	FIT3229 Bayesian modelling and inference	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	MTH3320 Computational linear algebra	MTH3330 Optimisation and operations research	Free elective	Free elective
Year 3 Semester 2	ADS3001 Advanced data challenges (12 points)		FIT2132 Reasoning with data	FIT3154 Advanced data analysis
Year 4 Semester 1	ADS4001 Research methods	ADS4010 Frontiers of data science	Free elective (level three or higher approved for Year 4 by the course director)	Free elective (level three or higher approved for Year 4 by the course director)
Year 4 Semester 2	ADS4100 Industry research project (24 points)			

A	Data challenges
B	Techniques for data science
C	Applied studies
D	Advanced practice
E	Free elective

*Students who have completed VCE Specialist Mathematics 3/4 with a raw study score of at least 30 (or equivalent) should take MAT1830 in Year 1, Semester 1. All other students should take MTH1020.