MONASH University

Course progression map for 2017 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.

B2009 Bachelor of Commerce Specialist and Bachelor of Computer Science

Specialisations - Actuarial science and Advanced computer science

	Commerce Specialist		Computer Science	
Year 1 Semester 1	ETC1000 Business and economic statistics	ECC1000 Principles of microeconomics	FIT1045 Algorithms and programming fundamental in python	MAT1830 Discrete mathematics for computer science
Year 1 Semester 2	ECC1100 Principles of macroeconomics	ACC1100 Introduction to financial accounting	FIT1008 Introduction to computer science	MAT1841 Continuous mathematics for computer science
Year 2 Semester 1	ETC2440 Mathematics for economics and business	ETC2410 Introductory econometrics	FIT1047 Computer systems, networks and security	FIT2004 Algorithms and data structures
Year 2 Semester 2	BFC2140 Corporate finance 1	ETC2420 Statistical methods in insurance	FIT2014 Theory of computation	FIT1049 IT professional practice
Year 3 Semester 1	BFC1001 Foundations of finance	BFC2340 Debt markets and fixed income securities	FIT2099 Object oriented design and implementation	FIT3171 Databases
Year 3 Semester 2	ETC2430 Actuarial statistics	Specialisation unit 1 from a list	FIT2102 Programming paradigms	FIT3155 Advanced data structures and algorithms
Year 4 Semester 1	Specialisation unit 2 from a list	Specialisation unit 3 from a list	FIT3161 CS project 1	BCS Approved L3 elective
Year 4 Semester 2	Specialisation unit 4 from a list	ETC3530 Contingencies in insurance and pensions	FIT3162 CS project 2	FIT3143 Parallel computing

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B2009 Bachelor of Commerce Specialist and Bachelor of Computer Science

Specialisations - Actuarial science and Computer science in data science

	Commerce Specialist		Computer Science in Data Science	
Year 1 Semester 1	ETC1000 Business and economic statistics	ECC1000 Principles of microeconomics	FIT1045 Algorithms and programming fundamentals in python	MAT1830 Discrete mathematics for computer science
Year 1 Semester 2	ECC1100 Principles of macroeconomics	ACC1100 Introduction to financial accounting	FIT1008 Introduction to computer science	MAT1841 Continuous mathematics for computer science
Year 2 Semester 1	ETC2440 Mathematics for economics and business	ETC2410 Introductory econometrics	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
Year 2 Semester 2	BFC2140 Corporate finance 1	ETC2420 Statistical methods in insurance	FIT2014 Theory of computation	FIT1043 Introduction to data science
Year 3 Semester 1	BFC1001 Foundations of finance	BFC2340 Debt markets and fixed income securities	FIT2094 Databases	FIT1049 IT professional practice
Year 3 Semester 2	ETC2430 Actuarial statistics	Specialisation unit 1 from a list	FIT2086 Modelling for data science	FIT3179 Data visualisation
Year 4 Semester 1	Specialisation unit 2 from a list	Specialisation unit 3 from a list	FIT3163 DS project 1	Approved L3 Data Science elective
Year 4 Semester 2	Specialisation unit 4 from a list	ETC3530 Contingencies in insurance and pensions	FIT3164 DS project 2	Approved L3 Data Science elective

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B2009 Bachelor of Commerce Specialist and Bachelor of Computer Science

Specialisations – Economics (Economics and economic policy) and Advanced computer science

	Commerce Specialist		Computer Science	
Year 1 Semester 1	ECC1000 Principles of microeconomics	ECC1100 Principles of macroeconomics	FIT1045 Algorithms and programming fundamentals in python	MAT1830 Discrete mathematics for computer science
Year 1 Semester 2	ECC2010 Intermediate macroeconomics	ETC1000 Business and economic statistics	FIT1008 Introduction to computer science	MAT1841 Continuous mathematics for computer science
Year 2 Semester 1	ECC2000 Intermediate microeconomics	ETC2410 Introductory econometrics	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
Year 2 Semester 2	Specialisation unit 1 selected from a list	Specialisation unit 2 selected from a list	FIT2014 Theory of computation	FIT1049 IT professional practice
Year 3 Semester 1	Specialisation unit 3 selected from a list	Business and Economics elective	FIT2099 Object oriented design and implementation	BCS Approved L3 elective
Year 3 Semester 2	Specialisation unit 4 selected from a list	Business and Economics elective	FIT2102 Programming paradigms	FIT3155 Advanced data structures and algorithms
Year 4 Semester 1	Specialisation unit 5 selected from a list	Business and Economics elective	FIT3161 CS project 1	BCS Approved L3 elective
Year 4 Semester 2	Business and Economics elective	ECC3690 International economics	FIT3162 CS project 2	FIT3143 Parallel computing

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B2009 Bachelor of Commerce Specialist and Bachelor of Computer Science

Specialisations – Economics (Mathematical economics and econometrics) and Advanced computer science

	Commerce Specialist		Computer Science	
Year 1 Semester 1	ECC1000 Principles of microeconomics	ECC1100 Principles of macroeconomics	FIT1045 Algorithms and programming fundamentals in python	MAT1830 Discrete mathematics for computer science
Year 1 Semester 2	ECC2000 Intermediate microeconomics	ETC1000 Business and economic statistics	FIT1008 Introduction to computer science	MAT1841 Continuous mathematics for computer science
Year 2 Semester 1	Specialisation mathematics unit 1 (from pair)	ETC2410 Introductory econometrics	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
Year 2 Semester 2	Specialisation mathematics unit 2 (from pair)	Specialisation unit 1 selected from a list	FIT2014 Theory of computation	FIT1049 IT professional practice
Year 3 Semester 1	Specialisation unit 2 selected from a list	Business and Economics elective	FIT2099 Object oriented design and implementation	FIT3171 Databases
Year 3 Semester 2	Specialisation unit 3 selected from a list	ECC3840 Mathematical economics	FIT2102 Programming paradigms	FIT3155 Advanced data structures and algorithms
Year 4 Semester 1	Business and Economics elective	Business and Economics elective	FIT3161 CS project 1	BCS Approved L3 elective
Year 4 Semester 2	Business and Economics elective	ETC3400 Principles of econometrics	FIT3162 CS project 2	FIT3143 Parallel computing

MONASH University

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Specialisations – Economics (Economics and economic policy) and Computer science in data science

	Commerce Specialist		Computer Science in Data Science	
Year 1 Semester 1	ECC1000 Principles of microeconomics	ECC1100 Principles of macroeconomics	FIT1045 Algorithms and programming fundamentals in python	MAT1830 Discrete mathematics for computer science
Year 1 Semester 2	ECC2010 Intermediate macroeconomics	ETC1000 Business and economic statistics	FIT1008 Introduction to computer science	MAT1841 Continuous mathematics for computer science
Year 2 Semester 1	ECC2000 Intermediate microeconomics	ETC2410 Introductory econometrics	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
Year 2 Semester 2	Specialisation unit 1 selected from a list	Specialisation unit 2 selected from a list	FIT2014 Theory of computation	FIT1043 Introduction to data science
Year 3 Semester 1	Specialisation unit 3 selected from a list	Business and Economics elective	FIT2094 Databases	FIT1049 IT professional practice
Year 3 Semester 2	Specialisation unit 4 selected from a list	Business and Economics elective	FIT2086 Modelling for data science	FIT3179 Data visualisation
Year 4 Semester 1	Specialisation unit 5 selected from a list	Business and Economics elective	FIT3163 DS project 1	Approved L3 Data Science elective
Year 4 Semester 2	Business and Economics elective	ECC3690 International economics	FIT3164 DS project 2	Approved L3 Data Science elective

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B2009 Bachelor of Commerce Specialist and Bachelor of Computer Science

Specialisations – Economics (Mathematical economics and econometrics) and Computer science in data science

	Commerce Specialist		Computer Science in Data Science	
Year 1 Semester 1	ECC1000 Principles of microeconomics	ECC1100 Principles of macroeconomics	FIT1045 Algorithms and programming fundamentals in python	MAT1830 Discrete mathematics for computer science
Year 1 Semester 2	ECC2000 Intermediate microeconomics	ETC1000 Business and economic statistics	FIT1008 Introduction to computer science	MAT1841 Continuous mathematics for computer science
Year 2 Semester 1	Specialisation mathematics unit 1 (from pair)	ETC2410 Introductory econometrics	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
Year 2 Semester 2	Specialisation mathematics unit 2 (from pair)	Specialisation unit 1 selected from a list	FIT2014 Theory of computation	FIT1043 Introduction to data science
Year 3 Semester 1	Specialisation unit 2 selected from a list	Business and Economics elective	FIT2094 Databases	FIT1049 IT professional practice
Year 3 Semester 2	Specialisation unit 3 selected from a list	ECC3840 Mathematical economics	FIT2086 Modelling for data science	FIT3179 Data visualisation
Year 4 Semester 1	Business and Economics elective	Business and Economics elective	FIT3163 DS project 1	Approved L3 Data Science elective
Year 4 Semester 2	Business and Economics elective	ECC3400 Principles of econometrics	FIT3164 DS project 2	Approved L3 Data Science elective

MONASH University

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B2009 Bachelor of Commerce Specialist and Bachelor of Computer Science

Specialisations - Finance and Advanced computer science

	Commerce Specialist		Computer Science	
Year 1 Semester 1	ACC1200 Accounting for managers _or_ ACC1100 Introduction to financial accounting	BFC1001 Foundations of finance	FIT1045 Algorithms and programming fundamentals in python	MAT1830 Discrete mathematics for computer science
Year 1 Semester 2	ECC1000 Principles of microeconomics	ETC1000 Business and economic statistics	FIT1008 Introduction to computer science	MAT1841 Continuous mathematics for computer science
Year 2 Semester 1	BFC2340 Debt markets and fixed income securities	BFC2140 Corporate finance 1	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
Year 2 Semester 2	BFC2240 Equities and investment analysis	ECC1100 Principles of macroeconomics	FIT2014 Theory of computation	FIT1049 IT professional practice
Year 3 Semester 1	ETC3460 Financial econometrics	ETC2410 Introductory econometrics	FIT2099 Object oriented design and implementation	FIT3171 Databases
Year 3 Semester 2	BFC3240 International finance	BFC2751 Derivatives 1	FIT2102 Programming paradigms	FIT3155 Advanced data structures and algorithms
Year 4 Semester 1	BFC3140 Corporate finance 2	BFC3540 Modelling in finance	FIT3161 CS project 1	BCS Approved L3 elective
Year 4 Semester 2	BFC3999 Finance and society	BFC3340 Derivatives 2	FIT3162 CS project 2	FIT3143 Parallel computing

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B2009 Bachelor of Commerce Specialist and Bachelor of Computer Science

Specialisations - Finance and Computer science in data science

	Commerce Specialist		Computer Science in Data Science	
Year 1 Semester 1	ACC1200 Accounting for managers *or* ACC1100 Introduction to financial accounting	BFC1001 Foundations of finance	FIT1045 Algorithms and programming fundamentals in python	MAT1830 Discrete mathematics for computer science
Year 1 Semester 2	ECC1000 Principles of microeconomics	ETC1000 Business and economic statistics	FIT1008 Introduction to computer science	MAT1841 Continuous mathematics for computer science
Year 2 Semester 1	BFC2340 Debt markets and fixed income securities	BFC2140 Corporate finance 1	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
Year 2 Semester 2	BFC2240 Equities and investment analysis	ECC1100 Principles of macroeconomics	FIT2014 Theory of computation	FIT1043 Introduction to data science
Year 3 Semester 1	ETC3460 Financial econometrics	ETC2410 Introductory econometrics	FIT2094 Databases	FIT1049 IT professional practice
Year 3 Semester 2	BFC3240 International finance	BFC2751 Derivatives 1	FIT2086 Modelling for data science	FIT3179 Data visualisation
Year 4 Semester 1	BFC3140 Corporate finance 2	BFC3540 Modelling in finance	FIT3163 DS project 1	Approved L3 Data Science elective
Year 4 Semester 2	BFC3999 Finance and society	BFC3340 Derivatives 2	FIT3164 DS project 2	Approved L3 Data Science elective