

# Course progression map for 2018 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**

	Bachelor of Actuarial Science		Bachelor of 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	ETC2430 Actuarial statistics	BFC2340 Debt markets and fixed income securities	FIT2099 Object oriented design and implementation	FIT3171 Databases
Year 3 Semester 2	ETC2520 Probability and statistical inference for economics and business	Specialisation unit 1 selected from Part B	FIT2102 Programming paradigms	FIT3155 Advanced data structures and algorithms
Year 4 Semester 1	Specialisation unit 2 selected from Part B	Specialisation unit 3 selected from Part B	FIT3161 Computer science project 1	Level 3 Approved elective
Year 4 Semester 2	Specialisation unit 4 selected from Part B	ETC3530 Contingencies in insurance and pensions	FIT3162 Computer science project 2	FIT3143 Parallel computing

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### **B2009 Bachelor of Commerce Specialist and Bachelor of Computer Science**

#### **Specialisations: Actuarial science and Data science**

	Bachelor of Actuarial Science		Bachelor of 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	ETC2430 Actuarial statistics	BFC2340 Debt markets and fixed income securities	FIT2094 Databases	FIT1049 IT professional practice
Year 3 Semester 2	ETC2520 Probability and statistical inference for economics and business	Specialisation unit 1 selected from Part B	FIT2086 Modelling for data science	FIT3179 Data visualisation
Year 4 Semester 1	Specialisation unit 2 selected from Part B	Specialisation unit 3 selected from Part B	FIT3163 Data science project 1	Level 3 Approved data science elective unit
Year 4 Semester 2	Specialisation unit 4 selected from Part B	ETC3530 Contingencies in insurance and pensions	FIT3164 Data science project 2	Level 3 Approved data science elective unit

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### **B2009 Bachelor of Commerce Specialist and Bachelor of Computer Science**

**Specialisations: Economics (Economics and economic policy) and Advanced computer science**

	Bachelor of Economics		Bachelor of 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 List A	Specialisation unit 2 selected from List A	FIT2014 Theory of computation	FIT1049 IT professional practice
Year 3 Semester 1	Specialisation unit 3 selected from List A	Commerce elective unit 1	FIT2099 Object oriented design and implementation	Level 3 Approved elective
Year 3 Semester 2	Specialisation unit 4 selected from List A or B	Commerce elective unit 2	FIT2102 Programming paradigms	FIT3155 Advanced data structures and algorithms
Year 4 Semester 1	Specialisation unit 5 selected from List A or B	Commerce elective unit 3	FIT3161 Computer science project 1	Level 3 Approved elective
Year 4 Semester 2	ECC3690 International economics	Commerce elective unit 4	FIT3162 Computer science 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**

	Bachelor of Economics		Bachelor of 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	Mathematics unit	ETC2410 Introductory econometrics	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
Year 2 Semester 2	Mathematics unit*	Specialisation unit 1 selected from Part C	FIT2014 Theory of computation	FIT1049 IT professional practice
Year 3 Semester 1	Specialisation unit 2 selected from Part C	Commerce elective unit 1	FIT2099 Object oriented design and implementation	FIT3171 Databases
Year 3 Semester 2	Specialisation unit 3 selected from Part C	ECC3840 Mathematical economics	FIT2102 Programming paradigms	FIT3155 Advanced data structures and algorithms
Year 4 Semester 1	Commerce elective unit 2	Commerce elective unit 3	FIT3161 Computer science project 1	Level 3 Approved elective
Year 4 Semester 2	Commerce elective unit 4	ETC3400 Principles of econometrics	FIT3162 Computer science project 2	FIT3143 Parallel computing

\*Students must complete one pair of mathematics units.

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### **B2009 Bachelor of Commerce Specialist and Bachelor of Computer Science**

**Specialisations: Economics (Economics and economic policy) and Data Science**

	Bachelor of Economics		Bachelor of 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 List A	Specialisation unit 2 selected from List A	FIT2014 Theory of computation	FIT1043 Introduction to data science
Year 3 Semester 1	Specialisation unit 3 selected from List A	Commerce elective unit 1	FIT2094 Databases	FIT1049 IT professional practice
Year 3 Semester 2	Specialisation unit 4 selected from List A or B	Commerce elective unit 2	FIT2086 Modelling for data science	FIT3179 Data visualisation
Year 4 Semester 1	Specialisation unit 5 selected from List A or B	Commerce elective unit 3	FIT3163 Data science project 1	Level 3 Approved data science elective unit
Year 4 Semester 2	Commerce elective unit 4	ECC3690 International economics	FIT3164 Data science project 2	Level 3 Approved data science elective unit

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### **B2009 Bachelor of Commerce Specialist and Bachelor of Computer Science**

#### **Specialisations: Economics (Mathematical economics and econometrics) and Data science**

	Bachelor of Economics		Bachelor of 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	Mathematics unit*	ETC2410 Introductory econometrics	FIT1047 Introduction to computer systems, networks and security	FIT2004 Algorithms and data structures
Year 2 Semester 2	Mathematics unit*	Specialisation unit 1 selected from Part C	FIT2014 Theory of computation	FIT1043 Introduction to data science
Year 3 Semester 1	Specialisation unit 2 selected from Part C	Commerce elective unit 1	FIT2094 Databases	FIT1049 IT professional practice
Year 3 Semester 2	Specialisation unit 3 selected Part C	ECC3840 Mathematical economics	FIT2086 Modelling for data science	FIT3179 Data visualisation
Year 4 Semester 1	Commerce elective unit 2	Commerce elective unit 3	FIT3163 Data science project 1	Level 3 Approved data science elective unit
Year 4 Semester 2	Commerce elective unit 4	ECC3400 Principles of econometrics	FIT3164 Data science project 2	Level 3 Approved data science elective unit

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## **B2009 Bachelor of Commerce Specialist and Bachelor of Computer Science**

### **Specialisations: Finance and Advanced computer science**

	Bachelor of Finance		Bachelor of Computer Science	
Year 1 Semester 1	ACC1100 Introduction to financial accounting <i>or</i> ACC1200 Accounting for managers	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	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	ETC2410 Introductory econometrics	FIT2014 Theory of computation	FIT1049 IT professional practice
Year 3 Semester 1	ETC3460 Financial econometrics	BFC3170 Management of financial intermediaries	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 Computer science project 1	Level 3 Approved elective unit
Year 4 Semester 2	BFC3999 Finance and society	BFC3340 Derivatives 2	FIT3162 Computer science project 2	FIT3143 Parallel computing

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#### **Specialisations: Finance and Data science**

	Bachelor of Finance		Bachelor of Computer Science in Data Science	
Year 1 Semester 1	ACC1100 Introduction to financial accounting <i>or</i> ACC1200 Accounting for managers	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	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	ETC2410 Introductory econometrics	FIT2014 Theory of computation	FIT1043 Introduction to data science
Year 3 Semester 1	ETC3460 Financial econometrics	BFC3170 Management of financial intermediaries	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 Data science project 1	Level 3 Approved data science elective unit
Year 4 Semester 2	BFC3999 Finance and society	BFC3340 Derivatives 2	FIT3164 Data science project 2	Level 3 Approved data science elective unit