# Program structure and sequence plans



BN-10029		Bachelor of Actu	arial Science		
Version	6	Big Data Major			Jan Intake
January	2020 Semester 1	ACCT11-100 Accounting for Decision Making	CORE11-001 Critical Thinking and Communication	ECON11-100 Principles of Economics	STAT11-112 Quantitative Methods
May	2020 Semester 2	ACSC12-200 Mathematical Statistics	CORE11-002 Collaboration, Teams and Leadership	ECON12-200 Econometrics	FINC12-200 Fundamentals of Finance
September	2020 Semester 3	CORE11-003 Responsibility, Integrity and Civic Discourse	ACSC13-304 Stochastic Modelling	DTSC12-200 Data Science	DTSC11-100 Business Analytics Coding
		Subject Catalogue	Major Catalogue	<u>Program Catalogue</u>	
January	2021 Semester 1	ACSC12-201 Financial Mathematics	ACSC13-305 Actuarial and Financial Models	FINC13-301 Corporate Finance	FINC13-303 Portfolio Analysis and Investment Management
May	2021 Semester 2	ACSC13-301 Contingencies	DTSC13-301 Machine Learning in Business	DTSC13-302 Statistical Learning and Regression Models	General Elective UG Choose any UG subject provided requirements are met.
September	2021 Semester 3	ECON12-202 Contemporary Macroeconomics Issues	Alt. DTSC Choose either DTSC13-303 or DTSC13-304	Alt. BIGD Choose either DTSC13-300, DTSC13-305 or ECON13-300	Major/Elective Optional Major subject or Elective
		Subject Catalogue	Major Catalogue	Program Catalogue	
BN-10029		Bachelor of Actu	arial Science		
BN-10029 Version	6	Bachelor of Actu	arial Science		May Intake
	6 2020		core11-001	ECON11-100	May Intake
		Big Data Major		ECON11-100 Principles of Economics	· · · · · · · · · · · · · · · · · · ·
Version	2020	Big Data Major  ACCT11-100	CORE11-001 Critical Thinking and		STAT11-112
Version May	2020 Semester 1 2020	ACCT11-100 Accounting for Decision Making  ACSC12-200	CORE11-001 Critical Thinking and Communication  CORE11-002 Collaboration, Teams and	Principles of Economics  ECON12-200	STAT11-112 Quantitative Methods FINC12-200
Version May	2020 Semester 1 2020 Semester 2	ACCT11-100 Accounting for Decision Making  ACSC12-200 Mathematical Statistics	CORE11-001 Critical Thinking and Communication  CORE11-002 Collaboration, Teams and Leadership	Principles of Economics  ECON12-200 Econometrics	STAT11-112 Quantitative Methods  FINC12-200 Fundamentals of Finance
Version  May  September	2020 Semester 1 2020 Semester 2 2021	ACCT11-100 Accounting for Decision Making  ACSC12-200 Mathematical Statistics  ACSC12-201	CORE11-001 Critical Thinking and Communication  CORE11-002 Collaboration, Teams and Leadership  ACSC13-304	Principles of Economics  ECON12-200 Econometrics  DTSC11-100	STAT11-112 Quantitative Methods  FINC12-200 Fundamentals of Finance  DTSC12-200
Version  May  September	2020 Semester 1 2020 Semester 2 2021	Big Data Major  ACCT11-100 Accounting for Decision Making  ACSC12-200 Mathematical Statistics  ACSC12-201 Financial Mathematics  Subject Catalogue  ACSC13-301	CORE11-001 Critical Thinking and Communication  CORE11-002 Collaboration, Teams and Leadership  ACSC13-304 Stochastic Modelling  Major Catalogue  DTSC13-301	Principles of Economics  ECON12-200 Econometrics  DTSC11-100 Business Analytics Coding  Program Catalogue  DTSC13-302	STAT11-112 Quantitative Methods  FINC12-200 Fundamentals of Finance  DTSC12-200 Data Science  CORE11-003
Version  May  September	2020 Semester 1 2020 Semester 2 2021 Semester 3	Big Data Major  ACCT11-100 Accounting for Decision Making  ACSC12-200 Mathematical Statistics  ACSC12-201 Financial Mathematics  Subject Catalogue	CORE11-001 Critical Thinking and Communication  CORE11-002 Collaboration, Teams and Leadership  ACSC13-304 Stochastic Modelling	Principles of Economics  ECON12-200 Econometrics  DTSC11-100 Business Analytics Coding  Program Catalogue	STAT11-112 Quantitative Methods  FINC12-200 Fundamentals of Finance  DTSC12-200 Data Science
May September January	2020 Semester 1 2020 Semester 2 2021 Semester 3	Big Data Major  ACCT11-100 Accounting for Decision Making  ACSC12-200 Mathematical Statistics  ACSC12-201 Financial Mathematics  Subject Catalogue  ACSC13-301	CORE11-001 Critical Thinking and Communication  CORE11-002 Collaboration, Teams and Leadership  ACSC13-304 Stochastic Modelling  Major Catalogue  DTSC13-301	Principles of Economics  ECON12-200 Econometrics  DTSC11-100 Business Analytics Coding  Program Catalogue  DTSC13-302 Statistical Learning and Regression	STAT11-112 Quantitative Methods  FINC12-200 Fundamentals of Finance  DTSC12-200 Data Science  CORE11-003 Responsibility, Integrity and Civic
May September January	2020 Semester 1 2020 Semester 2 2021 Semester 3 2021 Semester 1	ACSC12-200 Mathematical Statistics  ACSC12-201 Financial Mathematics  Subject Catalogue  ACSC13-301 Contingencies	CORE11-001 Critical Thinking and Communication  CORE11-002 Collaboration, Teams and Leadership  ACSC13-304 Stochastic Modelling  Major Catalogue  DTSC13-301 Machine Learning in Business	Principles of Economics  ECON12-200 Econometrics  DTSC11-100 Business Analytics Coding  Program Catalogue  DTSC13-302 Statistical Learning and Regression Models	STAT11-112 Quantitative Methods  FINC12-200 Fundamentals of Finance  DTSC12-200 Data Science  CORE11-003 Responsibility, Integrity and Civic Discourse  Major/Elective
Version  May  September  January  May	2020 Semester 1 2020 Semester 2 2021 Semester 3 2021 Semester 1 2021	ACCT11-100 Accounting for Decision Making  ACSC12-200 Mathematical Statistics  ACSC12-201 Financial Mathematics  Subject Catalogue  ACSC13-301 Contingencies  FINC13-301	CORE11-001 Critical Thinking and Communication  CORE11-002 Collaboration, Teams and Leadership  ACSC13-304 Stochastic Modelling  Major Catalogue  DTSC13-301 Machine Learning in Business  Alt. DTSC Choose either DTSC13-303 or	Principles of Economics  ECON12-200 Econometrics  DTSC11-100 Business Analytics Coding  Program Catalogue  DTSC13-302 Statistical Learning and Regression Models  Alt. BIGD Choose either DTSC13-300, DTSC13-	STAT11-112 Quantitative Methods  FINC12-200 Fundamentals of Finance  DTSC12-200 Data Science  CORE11-003 Responsibility, Integrity and Civic Discourse  Major/Elective
Version  May  September  January  May	2020 Semester 1 2020 Semester 2 2021 Semester 3 2021 Semester 1 2021 Semester 2	ACCT11-100 Accounting for Decision Making  ACSC12-200 Mathematical Statistics  ACSC12-201 Financial Mathematics  Subject Catalogue  ACSC13-301 Contingencies  FINC13-301 Corporate Finance	CORE11-001 Critical Thinking and Communication  CORE11-002 Collaboration, Teams and Leadership  ACSC13-304 Stochastic Modelling  Major Catalogue  DTSC13-301 Machine Learning in Business  Alt. DTSC Choose either DTSC13-303 or DTSC13-304	Principles of Economics  ECON12-200 Econometrics  DTSC11-100 Business Analytics Coding  Program Catalogue  DTSC13-302 Statistical Learning and Regression Models  Alt. BIGD Choose either DTSC13-300, DTSC13-305 or ECON13-300	STAT11-112 Quantitative Methods  FINC12-200 Fundamentals of Finance  DTSC12-200 Data Science  CORE11-003 Responsibility, Integrity and Civic Discourse  Major/Elective Optional Major subject or Elective

Updated 21/07/2020

## Program structure and sequence plans



BN-10029		Bachelor of Actuarial Science				
Version	7	Big Data Major			Sep Intake	
	2020	ACCT11-100	CORE11-001	ECON11-100	STAT11-112	
September	Semester 1	Accounting for Decision Making	Critical Thinking and Communication	Principles of Economics	Quantitative Methods	
	2021	ACSC12-201	CORE11-002	DTSC11-100	DTSC12-200	
January	Semester 2	Financial Mathematics	Collaboration, Teams and Leadership	Business Analytics Coding	Data Science	
	2021	ACSC12-200	DTSC13-301	ECON12-200	FINC12-200	
May	Semester 3	Mathematical Statistics	Machine Learning in Business	Econometrics	Fundamentals of Finance	
		Subject Catalogue	Major Catalogue	Program Catalogue		
	2021	CORE11-003	DTSC13-302	Alt. BIGD	Alt. DTSC	
September	Semester 1	Responsibility, Integrity and Civic Discourse	Statistical Learning and Regression Models	Choose either DTSC13-300, DTSC13- 305 or ECON13-300	Choose either DTSC13-303 or DTSC13-304	
	2022	ACSC13-306	ACSC13-305	FINC13-301	Major/Elective	
January	Semester 2	Stochastic Processes	Actuarial and Financial Models	Corporate Finance	Optional Major subject or Elective	
	2022	ACSC13-301	ECON12-202	FINC13-303	Major/Elective	
May	Semester 3	Contingencies	Contemporary Macroeconomics Issues	Portfolio Analysis and Investment Management	Optional Major subject or Elective	
		Subject Catalogue	Major Catalogue	Program Catalogue		

### PROGRAM INFORMATION

#### **SUBJECT INFORMATION**

Please note that ACSC13-304 and a General Elective have been replaced by ACSC13-306 & ACSC13-307 From the September (203) semester.

#### **GENERAL INFORMATION**

You are registered into Beyond Bond which is a practical, activity-based program that extends across the duration of all undergraduate degrees. You are registered in the Bond Business Mentoring Program designed for all new undergraduate students; please be advised the first scheduled gathering is in the Bond Business School orientation, If you require further information please email businessmentoring@bond.edu.au

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## Program structure and sequence plans



083205M

Cricos Code

BN-10029 Bachelor of Actuarial Science

**Total Credit Points** 

Version 6 Big Data Major Bachelors Degree

Structure 16 Required Subjects 8 General Electives

Total Subjects

Assumed knowledge is the minimum level of knowledge of a subject area that students are assumed to have acquired through previous study. It is the responsibility of students to ensure they meet the assumed knowledge expectations of a specified subject. Students who do not possess this prior knowledge are strongly recommended against enrolling and do so at their own risk. No concessions will be made for students' lack of prior knowledge.

A	O- I-	Title	Assessed Kasal Jadas	Dec. 1-11			
Available	Code		Assumed Knowledge	Requisite			
You must complete the following required subjects:							
J/M/S	ACCT11-100	Accounting for Decision Making	STAT11-112 & Further requisites in				
M/S	ACSC12-200	Mathematical Statistics	subject outline				
J	ACSC12-201	Financial Mathematics	STAT11-112 & Further requisites in subject outline				
J/M	ACSC13-301	Contingencies	ACSC12-201 & Further requisites in subject outline				
J	ACSC13-305	Actuarial and Financial Models	ACSC12-200 & Further requisites in subject outline				
J/S	ACSC13-306	Stochastic Processes		ACSC12-200			
M/S	ACSC13-307	Survival Analysis		ACSC12-200			
J/M/S	CORE11-001	Critical Thinking and Communication					
J/M/S	CORE11-002	Collaboration, Teams and Leadership	BCDP02-101 or CORE11-001				
J/M/S	CORE11-003	Responsibility, Integrity and Civic Discourse	BCDP02-101 or CORE11-001 & BCDP02- 102 or CORE11-002				
J/M/S	ECON11-100	Principles of Economics					
J/M/S	ECON12-200	Econometrics	STAT11-100 or STAT11-111 or STAT11-11	2			
J/M/S	ECON12-202	Contemporary Macroeconomics Issues	ECON11-100				
J/M/S	FINC12-200	Fundamentals of Finance					
J/S	FINC13-301	Corporate Finance	FINC12-200				
J/M	FINC13-303	Portfolio Analysis and Investment Management	FINC12-200				
J/M/S	STAT11-112	Quantitative Methods					
J/M/S	BIGD	Major - Big Data					
J/S	DTSC11-100	Business Analytics Coding					
J/S	DTSC12-200	Data Science					
М	DTSC13-301	Machine Learning in Business					
M/S	DTSC13-302	Statistical Learning and Regression Models					
J/M/S	Directed Elective	Choose a subject from the directed options.					
s	Alt. BIGD	Choose either DTSC13-300, DTSC13-305 or ECON13-300					
J/S	DTSC13-300	Big Data Infrastructure					
S	DTSC13-305	Financial Trading Systems					
S	ECON13-300	Advanced Econometrics	ECON12-200				
J/M/S	Alt. DTSC	Choose either DTSC13-303 or DTSC13-304					
J/S	DTSC13-303	Big Data Analytics Case Studies		DTSC13-301 & DTSC13-302			
S	DTSC13-304	Advanced Big Data Projects		DTSC13-301 & DTSC13-302			
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