Science

Bachelor of Science & Business (3925) - Handbook

2022 Commencing Students
Program Structure

Single Degree Mode

PROGRAM STRUCTURE				
	An approved Major	96 UOC (16 courses)	96 UOC	144 UOC
	Science Electives			
	Foundation Business Courses	24 UOC (4 courses)	48 UOC	
	Business Electives	24 UOC (4 courses)		

Dual Degree Mode (not shown in plans below)

	Science Electives			
	Foundation Business Courses	24 UOC (4 courses)		
	Business Electives	24 UOC (4 courses)		
	Law Component	144 UOC		

Science Electives are courses taken from within the Faculty of Science or as defined here

Foundation Business Courses are four core level 1 courses from the Faculty of Business that have been selected as part of the program: COMM1100, COMM1140, COMM1150, COMM1170.

Business Electives
Are courses selected from the Faculty of Business at level 2 and 3: MARK2012, MARK2051, MARK2052, MARK2053, MARK2071, MARK3081, MARK3085, MARK3091, MARK3092, MGMT2002, MGMT2010, MGMT2105, MGMT2200, MGMT2718, MGMT2725, MGMT3001, MGMT3702, MGMT3721, MGMT3724, TABL2710, TABL2712, TABL2721.

Science students cannot take GENS courses under any circumstance

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Bachelor of Science & Business (3925)

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	Evolutionary and (T2)	COMM1170 Organisational Resources (T1, T2, T3)
CHEM1011 Chemistry 1A (T1, T2, T3) OR CHEM1031 Higher Chemistry 1A (T1)	6 UOC Mathematics Level 1 Core (See notes 1)	COMM1150 Global Business Environments (T2, T3)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Information is correct as of

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Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Bioinformatics (BINFB1)
Choose from available proposed courses in each year

Year 1		
Moleules, Cells and (T1, T3)	Programming (T1, T2, T3)	CHEM1011 (T1, T2, T3) or CHEM1031 (T1)
MATH1131 (T1, T2, T3) or MATH1141 (T1, T3)	CHEM1021 (T1, T3) or CHEM1041 (T2)	MATH1231 (T1, T2, T3) or MATH1241 (T1, T2)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
Software Construction: Techniques and (T1)	Principles of Biochemistry (T2)	Introduction to (T3)
Data Structures and (T1, T2, T3)	MATH2801 or (T2)	Principles of Molecular Biology (T3)
COMM1170 Organisational Resources (T1, T2, T3)	COMM1150 Global Business Environments (T2, T3)	

Year 3		
Molecular Biology of (T1)	Applied (T2)	(T3)
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	Computational (T3)
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

NOTES	

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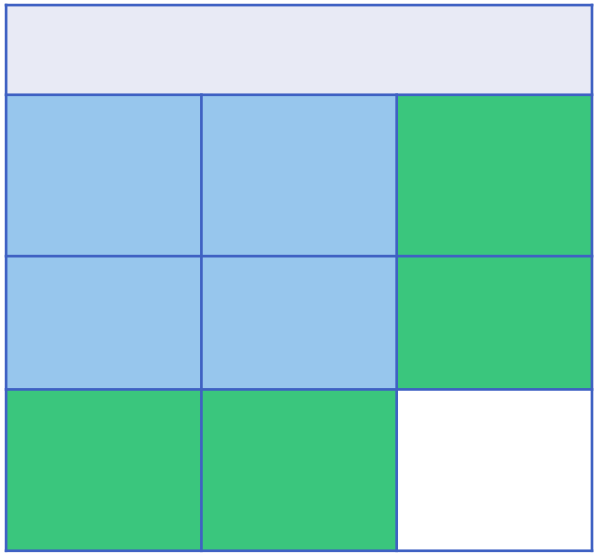

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Bachelor of Science & Business (3925)

2022 Commencing Students –

Year 1		
GEOS1211 Earth and Environmental Science (T1)	COMM1170 Organisational Resources (T1, T2, T3)	GEOS1111 Investigating Earth and Its Evolution (T3)
MATH1041 Statistics for Life and Social Sciences (T1, T2, T3)	COMM1150 Global Business Environments (T2, T3)	BEES1041 Exploring the Natural World (T3)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
BEES2041 Data Analysis for Life and Earth Sciences (T1)	GEOS2181 Earth Materials (T2)	GEOS2131 Field Methods and Mapping (T3)
6 UOC Level 2 Prescribed Elective (See Note 1)	GEOS2821 Introduction to GIS and Remote Sensing (T2)	6 UOC Science Elective
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
GEOS3171 Earth Structures (T1)	6 UOC Earth Science Elective Level 3 (See Notes 3)	GEOS3141 Mineral and Energy Resources (T3)
6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Science Elective	6 UOC Science Elective
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

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Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Ecology (BIOSG1)
Choose from available proposed courses in each year

Year 1		
BIOS1301 Ecology, Sustainability & Environmental Science (T1)	BIOS1101 Evolutionary & Functional Biology (T2)	COMM1170 Organisational Resources (T1, T2, T3)
MATH1041 Stats for Life & Social Sciences (T1, T2, T3)	GEOS1701 Environmental Systems, Processes & Issues (T2)	COMM1150 Global Business Environments (T2, T3)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
BEES2041 Data Analysis for Life and Earth Sciences (T1)	GEOS2711 Australian Climate and Vegetation (T2)	BEES1041 Exploring the Natural World (T3)
BIOS2011 Evolutionary and Physiological Ecology (T1)	6 UOC Science Elective	6 UOC Level 2 Prescribed Elective (See Notes 1)
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
BIOS3601 Advanced Field Biology (T1)	6 UOC Level 3 Prescribed Elective (See Notes 2)	BIOS6671 Biodiversity and Conservation of Natural Resources (T3)
6 UOC Science Elective	6 UOC Science Elective	BIOS3061 Plant Ecology (T3)
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

NOTES

This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.

See Program Structure on page 1 for a guide on the terminology and colour codes used in this progression plan.

Note 1: Level 2 Ecology Prescribed Electives: BIOS2061 (T2), GEOS2821 (T2), BIOS2031 (T3), BIOS2051 (T3), BIOS2123 (T3),
- **Students who wish to take GEOS2821 are required to take one of GEOS1111 OR GEOS1211 as a science elective.**

Note 2: Level 3 Ecology Prescribed Electives: GEOS3911 (T1), BIOS3081 (T1), BIOS3161 (T1), BEES3041 (T2), BIOS3011 (T2), BIOS6723 (T2), BIOS3171 (T3)

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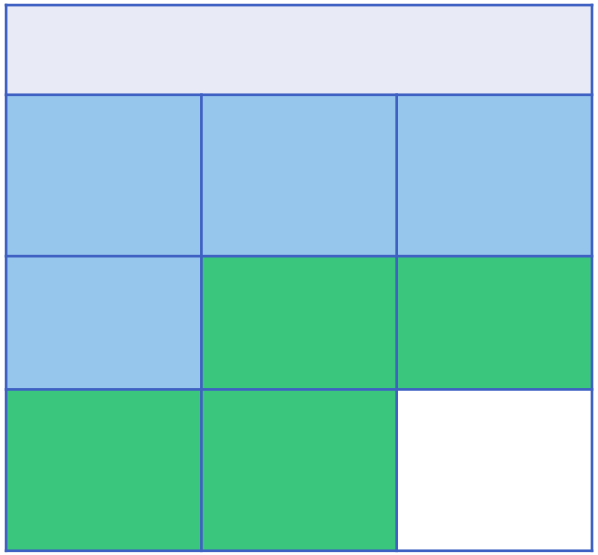

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Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Geography (GEOGG1)
Choose from available proposed courses in each year

Year 1		
BIOS1301 Ecology, Sustainability and Environmental Science (T1)	GEOS1701 Environmental Systems, Processes and Issues (T2)	COMM1170 Organisational Resources (T1, T2, T3)
MATH1041 Statistics for Life and Social Sciences (T1, T2, T3)	COMM1150 Global Business Environments (T2, T3)	BEES1041 Exploring the Natural World (T3)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
BEES2041 Data Analysis for Life and Earth Sciences (T1)	GEOS2711 Australian Climate and Vegetation (T2)	GEOS2721 Australian Physical Environments (T2)
6 UOC Science Elective	GEOS2821 Introduction to GIS and Remote Sensing (T2)	6 UOC Level 2 Geography Elective (see Notes 2)
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
GEOS3911 Environmental Impact Assessment (T1)	GEOS3761 Environmental Change (T2)	GEOS3921 Coastal Resource Management (T3)
6 UOC Science Elective	6 UOC Level 3 Geography Elective (see Notes 3)	6 UOC Science Elective
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

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2. Level 2 Geography Elective: GEOS2241 (T1), GEOS2291 (T3)
3. Level 3 Geography Elective: BEES3041 (T2), GEOS3811, GEOS3731 (T3), GEOS3821 (T1), GEOS6733

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2022 Commencing Students – Single Degree – Major in Materials Science (MATSB1)
Choose from available proposed courses in each year

Year 1		
MATS1192 Design and Application of Materials in Science and Engineering (T1, T3)	MATH1231 (T1, T2, T3) OR MATH1241 (T1, T2)	COMM1170 Organisational Resources (T1, T2, T3)
CHEM1011 (T1, T2, T3) OR CHEM1031 (T1)	PHYS1121 (T1, T2, T3) OR PHYS1131 (T1, T2, T3)	COMM1150 Global Business Environments (T2, T3)
MATH1131 (T1, T2, T3) OR MATH1141 (T1, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
MATS2001 Physical Properties of Materials (T1)	MATS2008 Thermodynamics and Phase Equilibria (T2)	MATS2006 Diffusion and Kinetics (T3)
MATS2003 Materials Characterisation (T1)	MATS2004 Mechanical Behaviour of Materials (T2)	6 UOC Business Electives level 2 or 3
COMM1100 Business Decision Making (T1, T2, T3)	6 UOC Business Electives level 2 or 3	

Year 3		
MATS3001 Micromechanisms of Mechanical Behaviour of Metals (T1)	MATS3004 Polymer Science and Engineering 1 (T2)	6 UOC Science Elective
MATS3002 Fundamentals of Ceramic Processing (T1)	6 UOC Science Elective	6 UOC Science Elective
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

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Year 1		
MATH1131 Maths 1A(T1, T2, T3) OR MATH1141 Higher Maths 1A (T1, T3)	MATH1231 Maths 1B (T1, T2, T3) or MATH1241 Higher Maths 1B (T1, T2)	COMM1170 Organisational Resources (T1, T2, T3)
6 UOC Science Elective	6 UOC Science Elective	COMM1150 Global Business Environments (T2, T3)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

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Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	MSCI1001 Introductory Marine Science (T2)	BEES1041 Exploring the Natural World (T3)
MATH1041 Statistics for Life and Social Sciences (T1, T2, T3)	COMM1170 Organisational Resources (T1, T2, T3)	COMM1150 Global Business Environments (T2, T3)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
BEES2041 Data Analysis for Life and Earth Sciences (T1)	GEOS2821 Introduction to GIS and Remote Sensing (T2)	BIOS2091 Marine and Aquatic Ecology (T3)
BIOS1301 (T1) OR GEOS1701 (T2)	BIOS1101 Evolutionary and Functional Biology (T2)	BIOS2031 Biology of Invertebrates (T3)
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
BIOS3081 Ocean to Estuarine Ecosystems (T1)	MSCI3001 Physical Oceanography (T2)	Level 3 Prescribed Elective (See Note 1)
6 UOC Science Elective	6 UOC Science Elective	6 UOC Science Elective
6 UOC		

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Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BIOS1101 Evolutionary and Functional Biology (T2)	COMM1170 Organisational Resources (T1, T2, T3)
CHEM1011 Chemistry 1A (T1, T2, T3) or Higher Chemistry 1A (T1)	CHEM1021 Chemistry 1B ()T1, T2, T3) or Higher Chemistry 1B (T2)	COMM1150 Global Business Environments (T2, T3)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
6 UOC Science Elective	ANAT2241 Histology: Basic and Systematic (T2)	PATH2201 Processes in Disease (T3)
6 UOC Level 2 Prescribed Elective (See Note 1)	BIOC2101 or BIOC2181	

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Year 1		
PSYC1001 Psychology 1A (T1, T2)	**PSYC1011 Psychology 1B (T2, T3)**	**PSYC1111 (T3)**
6 UOC Science Elective	**COMM1170 Organisational Resources (T1, T2, T3)**	**COMM1150 Global Business**

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