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)

PROGRAM STRUCTURE	An approved Major	144 UOC	144 UOC	288 UOC
	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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Science

Bachelor of Science & Business (3925)

2022 Commencing Students

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Anatomy (ANATA1)

Choose from available proposed courses in each year

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 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)	

Year 2		
ANAT2111 Introductory Anatomy (T1, T2)	ANAT2241 Histology: Basic and Systematic (T2)	6 UOC Science Electives
6 UOC Level 2 Prescribed Electives (See notes 2)	6 UOC Level 2 Prescribed Electives (See notes 2)	6 UOC Science Electives
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
6 UOC Level 3 Prescribed Electives (See notes 3)	6 UOC Level 3 Prescribed Electives (See notes 3)	6 UOC Level 3 Prescribed Electives (See notes 3)
6 UOC Level 3 Prescribed Electives (See notes 3)	6 UOC Science Electives	6 UOC Science Electives
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

NOTES

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Note 1: Mathematics Level 1 Core: MATH1041 (T1, T2, T3) or MATH1031 (T1, T3) or MATH1131 (T1, T2, T3) or MATH1141 (T1, T3) or MATH1151 (T1)
Note 2: Level 2 Prescribed Electives : ANAT2341 (T3), ANAT2521 (Summer, T2), PATH2201(T3), PHSL2101 (T1), PHSL2201 (T2)
Note 3: Level 3 Prescribed Electives : ANAT3121 (T1), ANAT3131 (T2), ANAT3141 (T3), ANAT3411 (T1), NEUR3211 (T3), SOMS3232 (T3)
Science Electives: See Handbook

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Bioinformatics (BINFB1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Moleules, Cells and Genes (T1, T3)	COMP1511 Programming Fundamentals (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		
COMP2041 Software Construction: Techniques and Tools (T1)	BIOC2101 Principles of Biochemistry (Advanced) (T2)	BINF2010 Introduction to Bioinformatics (T3)
COMP2521 Data Structures and Algorithms (T1, T2, T3)	MATH2801 or MATH2901 (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
COMM1170 Organisational Resources (T1, T2, T3)	COMM1150 Global Business Environments (T2, T3)	

Year 3		
BABS3121 Molecular Biology of Nucleic Acids (T1)	BINF3010 Applied Bioinformatics (T2)	BABS3281 Molecular Frontiers (T3)
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	BINF3020 Computational Bioinformatics (T3)
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Biology (BIOSJ1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BIOS1101 Evolutionary and Functional Biology (T2)	COMM1170 Organisational Resources (T1, T2, T3)
BIOS1301 Ecology, Sustainability & Environmental Science (T1)	MATH1041 Stats for Life and Social Sciences (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)	6 UOC Level 2 Prescribed E lective (See Note 1)	BEES1041 Exploring the Natural World (T3)
6 UOC Level 2 Prescribed E lective (See Note 1)	6 UOC Science Elective	6 UOC Level 2 Prescribed E lective (See Note 1)
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
BIOS3171 Evolution (T3)	6 UOC Biology Elective Level 3 (See Notes 2)	6 UOC Biology Elective Level 3 (See Notes 2)
6 UOC Biology Elective Level 3 (See Notes 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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Note 1: Level 2 Prescribed Electives: BIOS2011 (T1), BIOS2500 (T2), BIOS2061 (T2), BIOS2031 (T3), BIOS2051 (T3), BIOS2123 (T3),
Note 2: Level 3 Prescribed Electives: GEOS3911 (T1), BIOS3601 (T1), BIOS3081 (T1), BIOS6723 (T2), BEES3041 (T2), BIOS3011 (T2), BIOS3061 (T2), BIOS3161 (T2), BIOS3221 (T3), BIOS6671 (T3)

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Biotechnology (BIOTA1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BABS1202 Applied Biomolecular Sciences (T2)	COMM1170 Organisational Resources (T1, T2, T3)
CHEM1011 (T1, T2, T3) or CHEM1031 (T1)	CHEM1021 (T1, T2, T3) or CHEM1041 (T2)	COMM1150 Global Business Environments (T2, T3)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
BABS2011 Current Trends in Biotechnology (T1)	BIOC2101 Principles of Biochemistry (Advanced) (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
MATH1031 (T1, T3) or MATH1131 (T1, T2, T3) or MATH1141 (T1, T3)	MATH1041 (T1, T2, T3) or MATH1231 (T1, T2, T3) or MATH1241 (T1, T2)	6 UOC Science Elective
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
BABS3071 Commercial Biotechnology (T1)	BABS3031 Biotechnology and Bioengineering (T2)	BABS3061 Medical Biotechnology (T3)
MICR2011 Microbiology 1 (T1)	6 UOC Science Elective	BABS3200 Synthetic Biology (T3)
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Chemistry (CHEMA1)

Choose from available proposed courses in each year

Year 1		
MATH1031 (T1, T3) or MATH1131 (T1, T2, T3) or MATH1141 (T1, T3)	MATH1041 (T1, T2, T3) or MATH1231 (T1, T2, T3) or MATH1241 (T1, T2)	COMM1170 Organisational Resources (T1, T2, T3)
CHEM1011 (T1, T2, T3) or CHEM1031 (T1)	CHEM1021 (T1, T2, T3) or CHEM1041 (T2)	COMM1150 Global Business Environments (T2, T3)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
PHYS1111 (T1, T3) or PHYS1121 (T1, T2, T3) or PHYS1131 (T1, T2, T3)	CHEM2011 Physical Chemistry: Molecules, Energy and Change (T2)	CHEM2031 Inorganic Chemistry: The Elements (T3)
CHEM2041 Analytical Chemistry: Essential Methods (T1, T3)	CHEM2021 Organic Chemistry: Mechanisms and Biomolecules (T2)	6 UOC Science Elective
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
6 UOC Level 3 Prescribed Elective	6 UOC Level 3 Prescribed Elective	6 UOC Level 3 Prescribed Elective
6 UOC Level 3 Prescribed Elective	6 UOC Science Elective	6 UOC Science Elective
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

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Level 3 Prescribed Electives: CHEM3021 (T1), CHEM3061 (T1), CHEM3031 (T2), CHEM6041 (T2), CHEM3071 (T3), CHEM3011 (T3)

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Earth Science (GEOLS1)

Choose from available proposed courses in each year

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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Note 1: Level 2 Earth Science Prescribed Electives: GEOS2291 (T1), BEES2741 (T2), MERE2001 (T2), MERE2002 (T2), GEOS2721 (T3)
Note 2: Level 3 Earth Science Prescribed Electives: GEOS3821 (T1), GEOS3911 (T1), GEOS3281 (T2), GEOS3761 (T2), BEES6741 (T3)

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Science

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	

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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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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Food Science (FOODH1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	CHEM1011 (T1, T2, T3) OR CHEM1031 (T1) OR CHEM1811 (T1)	CHEM1021 (T1, T2, T3) OR CHEM1041 (T2) OR CHEM181 (T2)
FOOD1120 Introduction to Food Science (T1)	COMM1140 Financial Management (Summer, T1, T2, T3)	COMM1170 Organisational Resources (T1, T2, T3)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1150 Global Business Environments (T2, T3)	

Year 2		
MATH1131 (T1, T2, T3) OR MATH1031 (T1, T3)	BIOC2181 (T2) OR BIOC2101 (T2)	FOOD2320 Food Microbiology (T3)
CHEM2921 Food Chemistry (T1)	6 UOC Science Elective	6 UOC Business Electives level 2 or 3
MICR2011 Microbiology 1 (T1)	6 UOC Business Electives level 2 or 3	

Year 3		
FOOD3010 Food Products and Ingredients Technology (T1)	6 UOC Discipline Elective (See notes 1)	6 UOC Discipline Elective (See notes 1)
6 UOC Science Elective	6 UOC Science Elective	6 UOC Science Elective
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

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Note 1: Discipline Electives: FOOD3020 (T1), FOOD3220 (T1), FOOD3030 (T2), FOOD4110 (T3)

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Genetics (BIOCC1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BABS1202 Applied Biomolecular Sciences (T2)	COMM1170 Organisational Resources (T1, T2, T3)
MATH1131 (T1, T2, T3) OR MATH1141 (T1, T3) OR MATH1031 (T1, T3)	COMM1100 Business Decision Making (T1, T2, T3)	COMM1150 Global Business Environments (T2, T3)
CHEM1011 (T1, T2, T3) OR CHEM1031 (T1)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
CHEM1021 (T1, T2, T3) OR CHEM1041 (T2)	BABS2202 Molecular Cell Biology 1 (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
MATH1231 (T1, T2, T3) OR MATH1241 (T1, T2) OR MATH1041 (T1, T2, T3)	BIOC2101 (T2) OR BINF2010 (T3)	BABS2204 (T3) OR BABS2264 (T3)
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
MICR2011 Microbiology 1 (T1)	6 UOC Level 3 Prescribed Elective (See Note 1)	6 UOC Level 3 Prescribed Elective (See Note 1)
BABS3121 Molecular Biology of Nucleic Acids (T1)	6 UOC Science Elective	6 UOC Business Electives level 3
BABS3291 Genes, Genomes and Evolution (T1)	6 UOC Business Electives level 3	

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Note 1: Level 3 Prescribed Electives: BABS3151 (T2), BINF3010 (T2), MICR3621 (T3), BABS3021 (T3)

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Science

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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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Immunology (MICRJ1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BIOS1101 Evolutionary and Functional Biology (T2)	COMM1170 Organisational Resources (T1, T2, T3)
CHEM1011 (T1, T2, T3) OR CHEM1031 (T1)	CHEM1021 (T1, T2, T3) OR CHEM1041 (T2)	COMM1150 Global Business Environments (T2, T3)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
MICR2011 Microbiology 1 (T1)	ANAT2241 Histology: Basic and Systematic (T2)	PATH2201 Processes in Disease (T3)
6 UOC Science Elective	BABS2202 Molecular Cell Biology 1 (T2)	6 UOC Business Electives level 2 or 3
6 UOC Business Electives level 2 or 3	BIOC2101 Principles of Biochemistry (Advanced) (T2)	

Year 3		
BABS3041 Immunology (T1)	6 UOC Science Elective	PATH3209 Clinical Immunology (T3)
PATH3205 (T1) OR BABS3081 (T2) OR MICR3061 (T3)	6 UOC Science Elective	6 UOC Science Elective
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

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Science

Bachelor of Science & Business (3925)

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	

NOTES	
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Information is correct as of 30/03/2023 and is based on proposed prerequisites and course availability. This is to be used as a guide only and does not replace individual advice. Refer to the Handbook and Class Timetable for the relevant term to check availability for these courses. Contact The Nucleus: Student Hub for further assistance. CRICOS Provider Code 00098G

Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Mathematics (MATHM1)

Choose from available proposed courses in each year

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)	

Year 2		
MATH2011 Several Variable Calculus or MATH2111 Higher Several Variable Calculus (T1)	MATH2501 Linear Algebra or MATH2601 Higher Linear Algebra (T2)	6 UOC Science Elective
6 UOC Business Electives level 2 or 3	MATH2801 Theory of Statistics or MATH2901 Higher Theory of Statistics (T2)	MATH2521 Complex Analysis or Higher Complex Analysis MATH2621 (T3)
6 UOC Business Electives level 2 or 3	MATH2121 or MATH2221 (T2)	

Year 3		
6 UOC Level 3 Non-Statistics Prescribed Electives	6 UOC Level 3 Non-Statistics Prescribed Electives	6 UOC Science Elective
6 UOC Science Elective	6 UOC Science Elective	6 UOC of Any Level 3 or above Math Course
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: Courses numbered from MATH3000 to MATH3799 or MATH6700 to MATH6899 (inclusive) are non-statistics Mathematics courses**

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Marine and Coastal Science (MSCIM1)

Choose from available proposed courses in each year

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 Business Electives level 3	6 UOC Business Electives level 3	

NOTES

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

Note 1: Level 3 Prescribed Electives: GEOS3911 (T1), GEOS3731 (T3), GEOS3921 (T3)

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Microbiology (MICRB1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BABS1202 Applied Biomolecular Sciences (T2)	CHEM1021 (T1, T3) or CHEM1041 (T2)
CHEM1011 (T1, T2, T3) or CHEM1031 (T1)	6 UOC Mathematics Level 1 Core (See notes 2)	COMM1150 Global Business Environments (T2, T3)
6 UOC Mathematics Level 1 Core (See notes 1)	COMM1100 Business Decision Making (T1, T2, T3)	

Year 2		
MICR2011 Microbiology 1 (T1)	BABS2202 Molecular Cell Biology 1 (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
6 UOC from Level 2 Prescribed Electives (See notes 3)	6 UOC Science Elective	6 UOC Science Elective
COMM1170 Organisational Resources (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 3		
6 UOC from Level 3 Prescribed Electives (See notes 4)	6 UOC from Level 3 Prescribed Electives (See notes 4)	6 UOC from Level 3 Prescribed Electives (See notes 4)
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	6 UOC from Level 3 Prescribed Electives (See notes 4)
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

NOTES

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

Note 1: 6 UOC Mathematics level 1 Core: MATH1031 (T1, T3) or MATH1131 (T1, T2, T3) or MATH1141 (T1, T3)
Note 2: 6 UOC Mathematics level 1 Core: MATH1041 (T1, T2, T3) or MATH1231 (T1, T2, T3) or MATH1241 (T1, T2)
Note 3: 6 UOC from Level 2 Prescribed Electives: BIOC2101 (T2), BABS2204 (or BABS2264) (T3)
Note 4: 6 UOC from Level 3 Prescribed Electives: BABS3081 (T2), MICR3061 (T3), MICR3071 (T1), BABS3041 (T1), BABS3021 (or MICR3621) (T3), BABS3061 (T3), BABS3200 (T3)

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Molecular and Cell Biology (BIOCM1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BABS1202 Applied Biomolecular Sciences (T2)	COMM1170 Organisational Resources (T1, T2, T3)
MATH1131 (T1, T2, T3) OR MATH1141 (T1, T3) OR MATH1031 (T1, T3)	COMM1100 Business Decision Making (T1, T2, T3)	COMM1150 Global Business Environments (T2, T3)
CHEM1011 (T1, T2, T3) OR CHEM1031 (T1) OR CHEM1811 (T1)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
CHEM1021 (T1, T2, T3) OR CHEM1041 (T2) OR CHEM181 (T2)	BABS2202 Molecular Cell Biology 1 (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
MATH1231 (T1, T2, T3) OR MATH1241 (T1, T2) OR MATH1041 (T1, T2, T3)	BIOC2101 Principles of Biochemistry (Advanced) (T2)	BABS2204 (T3) OR BABS2264 (T3) OR MICR2011 (T1)
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
BABS3121 Molecular Biology of Nucleic Acids (T1)	BIOC3111 Molecular Biology of Proteins (T2)	BIOC3261 Human Biochemistry (T3)
6 UOC Science Elective	BIOC3271 (T2) OR BIOC3671 (T2)	6 UOC Science Elective
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

NOTES

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Neuroscience (NEURS1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1 , T3)	CHEM1011 (T1, T2, T3) OR CHEM1031 (T1)	COMM1170 Organisational Resources (T1, T2, T3)
PSYC1001 Psychology 1A (T1, T2)	MATH1041 Stats for Life & Social Sciences (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		
PHSL2101 Physiology 1A (T1)	NEUR2201 Neuroscience Fundamentals (T2)	6 UOC Level 2 Prescribed E lective (See Note 2)
6 UOC Level 1 Prescribed E lective (See Note 1)	PSYC1011 Psychology 1B (T2, T3)	6 UOC Level 2 Prescribed E lective (See Note 2)
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
6 UOC Level 3 Prescribed E lective (See Note 3)	6 UOC Level 3 Prescribed E lective (See Note 3)	6 UOC Level 3 Prescribed E lective (See Note 3)
6 UOC Level 2 Prescribed E lective (See Note 2)	6 UOC Science Elective	6 UOC Science Elective
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

NOTES

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Note 1: Level 1 Prescribed Electives: CHEM1021 (T1, T2, T3), CHEM1041 (T2), BIOS1101 (T2), PSYC1111 (T3)
Note 2: Level 2 Prescribed Electives: ANAT2111 (T1, T2), PSYC2001 (T1), PSYC2081 (T2), ANAT2511 (T3), PHAR2011 (T3)
Note 3: Level 3 Prescribed Electives: ANAT3411 (T1), NEUR3121 (T1), PHAR3202 (T2), PSYC3051 (T2)

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Pathology (PATHA1)

Choose from available proposed courses in each year

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 (T2)	6 UOC Science Elective
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
PATH3205 Molecular Basis of Disease (T1)	PATH3206 Cancer Pathology (T2)	6 UOC Science Elective
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	

NOTES

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See Program Structure on page 1 for a guide on the terminology and colour codes used in this progression plan.
Note 1: ANAT2111 (T1), BABS2202 (T2), MICR2011 (T1)
Note 2: BABS34041 (T1), PATH3207 (T3), SOMS3232 (T2), PATH3210 (T1), PATH3209 (T3)

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Pharmacology (PHARA1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	MATH1031 (T1,T3) or MATH1041 (T1, T2, T3) or MATH1131 (T1,T 2,T3) or MATH1141 (T1,T3) or MATH1151 (T1)	COMM1170 Organisational Resources (T1, T2, T3)
CHEM1011 Chemistry 1A (T1, T2, T3) or CHEM1031 Higher Chemistry 1A (T1)	CHEM1021 Chemistry 1 (T1, T2, T3) or CHEM1041 Higher Chemistry 1B (T 2)	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 BIOS####^	6 UOC Science Elective	PHAR2011 Introductory Pharmacology and Toxicology (T3)
PHSL2101 Physiology 1A (T1)	6 UOC Level 2 Prescribed Elective (See Note 1)	6 UOC Level 2 Prescribed Elective (See Note 1)
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Science elective
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	

NOTES

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^ Note: Students must complete at least 6 UOC of courses with the course code BABS####, and at least 6 UOC of courses with the course code BIOS####.
Note 1: PHSL2101 (T1), BABS2202 (T2), BIOC2101 OR BIOC2181 (T2), BIOC2201 (T3), CHEM2021 (T2), CHEM2041 (T1,T3)
Note 2: PHAR3101 (T3), PHAR3102 (T1), PHAR3202 (T2), PHAR3251 (T1)

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Physical Oceanography (MATHN1)

Choose from available proposed courses in each year

Year 1		
MATH1131 (T1, T2, T3) OR MATH1141 (T1, T3)	MATH1231 (T1, T2, T3) OR MATH1241 (T1, T2)	PHYS1221 (T1, T3) OR PHYS1231 (T1, T3)
PHYS1121 (T1, T2, T3) OR PHYS1131 (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		
MATH2241 Introduction to Atmosphere and Ocean Dynamics (T1)	MATH2121 (T2) OR MATH2221 (T2)	6 UOC Science Elective
MATH2301 Mathematical Computing (T1)	6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3
MATH2011 (T1) OR MATH2111 (T1)	6 UOC Science Elective	

Year 3		
MATH3121 Mathematical Methods and Partial Differential Equations (T1)	MATH3041 Mathematical Modelling for Real World Systems (T2)	MATH3261 Fluids, Oceans and Climate (T3)
6 UOC Science Elective	6 UOC Science Elective	6 UOC Science Elective
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

NOTES

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Physics (PHYSL1)

Choose from available proposed courses in each year

Year 1		
PHYS1121 (T1, T2, T3) or PHYS1131 (T1, T2,T3) or PHYS1141 (T1)	MATH1131, Maths 1A (T1,T2,T3) or MATH1141 Higher Maths 1A (T1,T3)	MATH2069 Mathematics 2A (T3)
PHYS1221 (T1,T3) or PHYS1231 (T1, T3), PHYS1241 (T2)	MATH1231 Maths 1B (T1, T2, T3) or MATH1241 Higher Maths 1B (T1, T2)	COMM1150 Global Business Environments (T2, T3)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
PHYS2111 Quantum Physics (T1)	6 UOC Physics Level 2 or 3 Electives (See Note 1)	COMM1170 Organisational Resources (T1, T2, T3)
MATH2089 Numerical Methods and Statistics (T1,T2)	PHYS2114 Electromagnetism (T2)	6 UOC Science Elective
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
PHYS3112 Experimental and Computational Physics (T1)	PHYS3111 Quantum Mechanics (T2)	6 UOC Science Elective
PHYS3113 Thermal Physics and Statistical Mechanics (T1)	6 UOC Physics Level 2 or 3 Electives (See Note 1)	6 UOC Science Elective
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

NOTES

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

Note 1: PHYS2113(T2), PHYS2801 (T1), PHYS3114* (T3), PHYS3115 (T3), PHYS3116 (T3), PHYS3117 (T3), PHYS3118 (T2)
***: Students who wish to take honours in Physics must take PHYS3114 Electrodynamics as one of their Physics electives.

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Physiology (PHSLA1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	6 UOC Level 1 Prescribed Elective	COMM1170 Organisational Resources (T1, T2, T3)
CHEM1011 (T1, T2, T3) or CHEM1031 (T1)	MATH1031 (T1, T3) or MATH1041 (T1, T2, T3) or MATH1131 (T1, T2, T3) or MATH1141 (T1, T3) or MATH1151 (T1)	COMM1150 Global Business Environments (T2, T3)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
PHSL2101 Physiology 1A (T1)	PHSL2201 Physiology 1B (T2)	6 UOC Level 2 Prescribed Elective
6 UOC Science Elective	6 UOC Level 2 Prescribed Elective	6 UOC Science Elective
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
6 UOC Level 3 Prescribed Elective	6 UOC Level 3 Prescribed Elective	6 UOC Level 3 Prescribed Elective
6 UOC Science Elective	6 UOC Science Elective	6 UOC Science Elective
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

NOTES

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

Level 1 Prescribed Elective: BIOS1101 (T2), CHEM1021 (T1, T2, T3), CHEM1041 (T2), PHYS1111 (T1, T3), PHYS1121 (T1, T2, T3), PHYS1131 (T1, T2, T3)
Level 2 Prescribed Elective: BIOC2101 (T2) or BIOC2181 (T2), NEUR2201 (T2), BIOC2201 (T3), PHAR2011 (T3)
Level 3 Prescribed Elective: NEUR3121 (T1), NEUR3101 (T2), PHSL3211 (T2), NEUR3221 (T3), PHSL3221 (T3)

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Psychology (PSYCA1)

Choose from available proposed courses in each year

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 Environments (T2, T3)
COMM1100 Business Decision Making (T1, T2, T3)	COMM1140 Financial Management (Summer, T1, T2, T3)	

Year 2		
PSYC2001 Research Methods 2 (T1)	PSYC2081 Learning and Physiological Psychology (T2)	PSYC2101 Assessment, Personality and Psychopathology (T3)
PSYC2061 Social and Developmental Psychology (T1)	6 UOC Science Elective	PSYC2071 Perception and Cognition (T3)
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
PSYC3001 Research Methods 3 (T1)	6 UOC Level 3 Prescribed Elective (See Note 1)	PSYC3011 Research and Applications of Psychology (T3)
6 UOC Level 3 Prescribed Elective (See Note 1)	6 UOC Level 3 Prescribed Elective (See Note 1)	6 UOC Science Elective
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

NOTES

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

Note 1: Level 3 Prescribed Electives - Students must take 18 UOC of the following courses with at least 6 UOC from List A and 6 UOC from List B.

- **List A: PSYC3211 (T1), PSYC3221 (T1), PSYC3241 (T1), PSYC3051 (T2), PSYC3311 (T2), PSYC3371 (T3)**
- **List B: PSYC3341 (T2), PSYC3361 (T2), PSYC3301 (T2), PSYC3121 (T3), PSYC3202 (T3), PSYC3331 (T3)**

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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Statistics (MATHT1)

Choose from available proposed courses in each year

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)	

Year 2		
MATH2011 or MATH2111 (T1)	MATH2801 Theory of Statistics or MATH2901 Higher Theory of Statistics (T2)	MATH2831 Linear Models or MATH2931 Higher Linear Models (T3)
6 UOC Science Elective	MATH2501 or MATH2601 (T2)	6 UOC Science Elective
6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 2 or 3	

Year 3		
MATH3811 Statistical Inference or MATH3911 Higher Statistical Inference (T1)	MATH3831 (T2), MATH3841, MATH3851 (T3), MATH3871 (T3)	6 UOC Science Elective
MATH3801 or MATH3901 (T1)	MATH3821 Statistical Modelling and Computing (T2)	6 UOC Science Elective
6 UOC Business Electives level 3	6 UOC Business Electives level 3	

NOTES	
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Science

Bachelor of Science & Business (3925)

2022 Commencing Students – Single Degree – Major in Vision Science (VISNA1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	VISN1111 Geometrical and Physical Optics (T2)	COMM1170 Organisational Resources (T1, T2, T3)
VISN1101 Seeing the World: Perspectives from Vision Science (T1)	CHEM1011 Chemistry 1A (T1, T2, T3) or CHEM1031 Higher Chemistry 1A (T1)	COMM1150 Global Business Environments (T2, T3)
MATH1031 (T1, T3) or MATH1131 Maths 1A (T1,T2,T3) or MATH1141 Higher Maths 1A (T1,T3)		VISN1221 Visual Optics (T3)

Year 2		
COMM1100 Business Decision Making (T1, T2, T3)	PHSL2201 Physiology 1B (T2)	COMM1140 Financial Management (Summer, T1, T2, T3)
PHSL2101 Physiology 1A (T1)	VISN2111 Ocular Anatomy and Physiology (T2)	VISN2211 Organisation and Function of the Visual System (T3)
ANAT2111 Introductory Anatomy (T1,T2)	6 UOC Science Elective	

Year 3		
ANAT3411 Neuroanatomy (T1)	6 UOC Science Elective	6 UOC Business Electives level 2 or 3
OPTM3201 Ocular Imaging & Applied Vision Science (T1)	6 UOC Business Electives level 2 or 3	6 UOC Business Electives level 3
VISN3111 Development and Aging of the Visual System (T1)	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.

Information is correct as of 30/03/2023 and is based on proposed prerequisites and course availability. This is to be used as a guide only and does not replace individual advice. Refer to the Handbook and Class Timetable for the relevant term to check availability for these courses. Contact The Nucleus: Student Hub for further assistance. CRICOS Provider Code 00098G