Science

Bachelor of Science (3970)

2017 Commencing Students

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Information is correct as of 29.08.2022 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

Dual Degree ς Bachelor of Science with a major in Anatomy

BABS1201	BIOS1101	CHEM1011 (S1, S2, T1, T2, T3) or CHEM1031 (S1, T1)
S1, Summer, T1, T3	S2, T2	

Program Structure (Dual Degree Mode)			
Major	72 UoC (12 courses)	96 UoC	192 UoC
Science Electives	24 UoC (4 courses)		
Other Degree*	96 UoC (16 courses)		

Stage 2 Electives: ANAT2341 (S2, T3), ANAT2521 (Summer), PATH2201 (S2, T3), PHSL2101 (S1, T1), PHSL2201 (S2, T2)

Stage 3 Electives: ANAT3121 (S2, T2), ANAT3131 (S2, T1), ANAT3141 (S1, T3), ANAT3212 (S2, T2), ANAT3231 (S1, T1), ANAT3411 (S1, T1), NEUR3211 (S2, T3), SOMS3232 (S2, T3)

3970 Bachelor of Science with a major in Bioinformatics (BINFB13970)

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Free Electives may be from Science or from any other Faculty at UNSW.

General Education courses cannot be Science courses, and Science students cannot take GENS

Single degree ς 3970 Bachelor of Science with a major in Biology (BIOSJ13970)

Major	72 UoC (12 courses)	108 UoC
Science Electives	36 UoC (6 courses)	
Free Electives	24 UoC (4 courses)	
General Education	12 UoC (2 courses)	

Science Electives are courses taken from within the Faculty of Science, as defined by *Table 1* in the Online Handbook.

Free Electives may be from Science or from any other Faculty at UNSW.

General Education courses cannot be Science courses, and Science students cannot take GENS courses for their General Education.

Students cannot complete more than 72 UoC of Level 1 courses including any GEN courses and Level 1 courses taken for General Education.

Dual Degree ς Bachelor of Science with a major in Chemistry

<table>
<tr><td>Major</td><td>78 UoC
(13 courses)</td><td rowspan="2">96 UoC</td><td rowspan="3">192 UoC</td></tr>
<tr><td>Science Electives</td><td>18 UoC
(3 courses)</td></tr>
<tr><td>Other Degree*</td><td colspan="2">96 UoC
(16 courses)</td></tr>
</table>

Stage 3 Chemistry Electives:
CHEM3011 (S1, T3), CHEM3021 (S1, T1), CHEM3031 (S1, T2), CHEM6041 (S2, T1)

Stage 3 Prescribed Chemistry Electives:
CHEM3901 (S2, T3), CHEM6702 (S2), CHEM3061 (T1), CHEM3071 (T3)

Please Note:

Single Degree ς 3970 Bachelor of Science with a major in Earth Science (GEOLS13970)

ProgrC			
Major	78 UoC (13 courses)	108 UoC	144 UoC
Science Electives	30 UoC (5 courses)		
Free Electives	24 UoC (4 courses)	36 UoC	
General Education	12 UoC (2 courses)		

In addition to the courses required for your major, students must also take *Science Electives*, *Free Electives*, and *General Education* courses. Students may use their Science Electives and/or Free Electives to complete a second major .

Stage 2 Electives:
GEOS2071 (S1, T1), GEOS2291 (S2, T3), GEOS2721 (S2, T3)

Stage 3 Electives:
GEOS3071 (S1, T2), GEOS3281 (S1, T2), GEOS3721 (S1, T3), GEOS3733 (S2, T3) , GEOS3761 (S2, T2), GEOS3811 (S1, T3), GEOS3821 (S2, T1)

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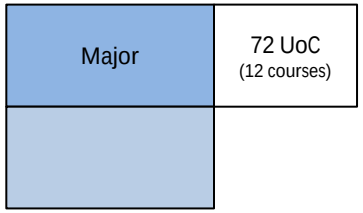
General Education courses cannot be Science courses, and Science students cannot take GENS courses for their General Education.

Students cannot complete more than 72 UoC of Level 1 courses including any GEN courses and Level 1 courses taken for General Education.

Single Degree ς 3970 Bachelor of Science with a major in Ecology (BIOSG13970)



Science Electives are courses taken from within the Faculty of Science, as defined by *Table 1* in the Online Handbook.

Free Electives may be from Science or from any other Faculty at UNSW.

General Education courses cannot be Science courses, and Science students cannot take GENS courses for their General Education.

Students cannot complete more than 72 UoC of Level 1 courses including any GEN courses and Level 1 courses taken for General Education.

Dual Degree ς Bachelor of Science with a major in Ecology

BIOS1101 S2, T2	BIOS1301 S1, T1	GEOS1701 S2, Summer, T2	MATH1041 S1, S2, T1, T2, T3				
BEES2041 S1, T1	BIOS2011 S2, T2	GEOS2711 S2, T2	6 UoC from Stage 2 Electives				
BIOS3601 S1, T1	BIOS6671 or BIOS3671 S2, T2	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives				
Science Elective	Science Elective	Science Elective	Science Elective				

Program Structure (Dual Degree Mode)			
Major	72 UoC (12 courses)	96 UoC	192 UoC
Science Electives	24 UoC (4 courses)		
Other Degree*	96 UoC (16 courses)		

Information correct for students commencing the Bachelor of Science on dual mode in 2017
**This template is not suitable for Engineering or Law dual degrees ς please see Science faculty*

Stage 2 Electives:
BIOS2031 (S2, T3), BIOS2051 (S2, T3), BIOS2061 (S1, T2)

Stage 3 Electives:
BIOS3061 (S2, T3), BIOS3091 (S2, T3), BIOS3161 (S1, T3), BIOS3081 (or BIOS3681)(S1, T1)

This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here. Please consult with your other faculty for ideal structure of your other program.

In addition to the courses required for your major, students must also take *Science Electives* to make a total of 96 UoC. Students may use their Science Electives to complete a second major or minor6l1.94 5(i)66T[5 9.024 Tf1 0 0 1 309.74

Single Degree ς 3970 Bachelor of Science with a major in Food Science (FOODH13970)

Science Electives are courses taken from within the Faculty of Science, as defined by *Table 1* in the Online Handbook.

Free Electives

Single Degree ς 3970 Bachelor of Science with a major in Genetics (BIOCC13970)

BABS1201 Summer, S1, T1, T3	BABS1202 S2, T2	CHEM1011 (S1, S2, T1, T2, T3) or CHEM1031 (S1, T1)	CHEM1021 (Summer, S2, T1, T3) or CHEM1041 (S2, T2)	MATH1031 (S1) or MATH1131 (S1,S2) or MATH1141 (S1)	MATH1041 (S1, S2) or MATH1231 (Summer, S2) or MATH1241 (S2)	General Education	General Education
BABS2204 or BABS2264 S2, T3	BABS2202 S2, T2	BIOC2201 S2, T3	6 UoC from Stage 2 Electives	Science Elective	Science Elective	Science Elective	Science Elective
BABS3151	BABS3291	BABS3021 or MICR3621	6 UoC from Stage 3 Electives	Free Elective	Free Elective	Free Elective	Free Elective

Program Structure			
Major	84 UoC (14 courses)	108 UoC	144 UoC
Science Electives	24 UoC (4 courses)		
Free Electives	24 UoC (4 courses)	36 UoC	
General Education	12 UoC (2 courses)		

Information correct for students commencing the Bachelor of Science in 2017

In addition to the courses required for your major, students must also take *Science Electives*, *Free Electives*, and *General Education* courses. Students may use their Science Electives and/or Free Electives to complete a second major or minor.

Stage 2 Electives: BIOC2101 (S1, T2), MICR2011 (S1, T1)

Stage 3 Electives: BABS3281 (S2, T3), BINF3010 (S1, T1)

Please Note: Semester offerings are subject to change, please check the timetable prior to planning for your enrolment

Science Electives are courses taken from within the Faculty of Science, as defined by *Table 1* in the Online Handbook.

Free Electives may be from Science or from any other Faculty at UNSW.

General Education courses cannot be Science courses, and Science students cannot take GENS courses for their General Education.

Students cannot complete more than 72 UoC of Level 1 courses including any GEN courses and Level 1 courses taken for General Education.

Progression check Student ID:
Name:
Date:_____Advisor: _____

UOC Completed
UOC Remaining (Including any enrolled courses)

Single Degree ς 3970 Bachelor of Science with a major in Marine Science (MSCIM13970)

BABS1201	BIOS1101	
Summer, S1, T1, T3	S2, T2	

Program Structure			
Major	78 UoC (13 courses)	108 UoC	144 UoC
Science Electives	30 UoC (5 courses)		
Free Electives	24 UoC (4 courses)	36 UoC	
General Education	12 UoC (2 courses)		

Information correct for students commencing the Bachelor of Science in 2017

In addition to the courses required for your major, students must also take *Science Electives*, *Free Electives*, and *General Education* courses. Students may use their Science Electives and/or Free Electives to complete a second major.

Stage 3 Electives: GEOS3731 (S2, T1), GEOS3911 (S1, T1), GEOS3921 (S2, T3),

Please note: Semester offerings are subject to change, please check the timetable prior to planning for your enrolment.

Science Electives are courses taken from within the Faculty of Science, as defined by *Table 1* in the Online Handbook.

Free Electives may be from Science or from any other Faculty at UNSW.

General Education courses cannot be Science courses, and Science students cannot take GENS courses for their General Education.

Students cannot complete more than 72 UoC of Level 1 courses including any GEN courses and Level 1 courses taken for General Education.

Double Degree ς Bachelor of Science with a major in Marine Science

BABS1201 Summer, S1, T1, T3	BIOS1101 S2, T2	GEOS1701 S2, Summer, T2	MATH1041 S1, S2, T1, T2, T3		
BEES2041 S1, T1	BIOS2031 S2, T3	GEOS2821 S1, T2	MSCI2001 S2, T1		
BIOS3091 S2, T3	MSCI3001 S2, T2	BIOS3081 or BIOS3681 S1, T1	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	

Program Structure (Dual Degree Mode)			
Major	78 UoC (13 courses)	96 UoC	192 UoC
Science Electives	18 UoC (3 courses)		
Other Degree*	96 UoC (16 courses)		

Information correct for students commencing the Bachelor of Science on dual mode in 2017
**This template is not suitable for Engineering or Law dual degrees ς please see Science faculty*

Stage 3 Electives: GEOS3731 (S2, T1), GEOS3911 (S1, T1), GEOS3921 (S2, T3), BIOS6671 (S2, T2) or BIOS3671 (S2, T2)

Please note: Semester offerings are subject to change, please check the timetable prior to planning for your enrolment.

Single Degree ς 3970 Bachelor of Science with a major in Materials Science (MATSB13970)

CHEM1011 (S1, S2, T1, T2, T3) or CHEM1031 (S1, T1)	MATH1131 (S1,S2, T1, T2, T3) or MATH1141 (S1, T1, T3)	MATH1231 (Summer, S2, T1, T2, T3) or MATH1241 (S2, T1, T2)	MATS1192	PHYS1121 or PHYS1131
			S1, S2, T1, T3	S1, S2, T1, T2, T3

Program Structure			
Major	78 UoC (13 courses)	108 UoC	144 UoC
Science Electives	30 UoC (5 courses)		
Free Electives	24 UoC (4 courses)	36 UoC	
General Education	12 UoC (2 courses)		

In addition to the courses required for your major, students must also take *Science Electives*, *Free Electives*, and *General Education* courses. Students may use their Science Electives and/or Free Electives to complete a second major or minor.

Please Note: Semester offerings are subject to change, please check the timetable prior to planning for your enrolment

Science Electives are courses taken from within the Faculty of Science, as defined by *Table 1* in the Online Handbook.

Free Electives may be from Science or from any other Faculty at UNSW.

General Education courses cannot be Science courses, and Science students cannot take GENS courses for their General Education.

Students cannot complete more than 72 UoC of Level 1 courses including any GEN courses and Level 1 courses taken for General Education.

Information correct for students commencing the Bachelor of Science in 2017

Double Degree ς Bachelor of Science with a major in Materials Science

Program Structure (Dual Degree Mode)			
Major	78 UoC (13 courses)	96 UoC	192UoC
Science Electives	18 UoC (3 courses)		
Other Degree*	96 UoC (16 courses)		

Information correct for students commencing the Bachelor of Science on dual mode in 2017

Please Note: Semester offerings are subject to change, please check the timetable prior to planning for your enrolment

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Dual Degree

Dual Degree ς Bachelor of Science with a major in

Single Degree ς 3970 Bachelor of Science with a major in Molecular and Cell Biology (BIOCM13970)

Major	78 UoC (13 courses)
Science Electives	30 UoC

Science Electives are courses taken from within the Faculty of Science, as defined by *Table 1* in the Online Handbook.

Free Electives may be from Science or from any other Faculty at UNSW.

General Education courses cannot be Science courses, and Science students cannot take GENS courses for their General Education.

Students cannot complete more than 72 UoC of Level 1 courses including any GEN courses and Level 1 courses taken for General Education.

Dual Degree ς Bachelor of Science with a major in Molecular and Cell Biology

Stage 2 Electives: MICR2011 (S1, T1), BABS2204 (or BABS2264) (S2, T3)

Stage 3 Electives: BABS3281 (S2, T3), BIOC3111 (S1, T2), BABS3121 (S1, T1)

3970 Bachelor of Science with a major in Neuroscience (NEURS13970)

Science Electives are courses taken from within the Faculty of Science, as defined by *Table 1* in the Online Handbook.

Free Electives may be from Science or from any other Faculty at UNSW.

General Education courses cannot be Science

Dual Degree ς Bachelor of Science with a major in Neuroscience

Stage 1 Electives: BIOS1101 (S2, T2), CHEM1021 (S2, Summer, T1, T3) (or CHEM1041) (S2, T2), PSYC1111 (S2, T3)

Stage 2 Electives: PHAR2011 (S2, T3), PSYC2001 (S1, T2), PSYC2081 (S1, T2), ANAT2511 (S1, T3) (or ANAT2111) (S1,S2, T1, T2)

Stage 3 Electives: ANAT3411 (S1, T1), NEUR3121 (S1, T1), PHAR3202 (S2, T2), PSYC3051 (S2, T2)

Dual Degree ς Bachelor of Science with a major in Pathology

BABS1201 S1, Summer, T1, T3	BIOS1101 S2, T2	CHEM1011 (S1, S2, T1, T2, T3) or CHEM1031 (S1, T1)	CHEM1021 (Summer, S2, T1, T3) or CHEM1041 (S2, T2)
ANAT2241 S1, T2	PATH2201 S2, T3	BIOC2181 or BIOC2101 S1, T2	6 UoC from Stage 2 Electives
PATH3205 S1, T1	PATH3206 S1, T2	6 UoC from Stage 3 Electives	

<table>
<tr><td colspan="4">Program Structure (Dual Degree Mode)</td></tr>
<tr><td>Major</td><td>66 UoC
(11 courses)</td><td rowspan="2">96 UoC</td><td rowspan="3">192 UoC</td></tr>
<tr><td>Science Electives</td><td>30 UoC
(5 courses)</td></tr>
<tr><td>Other degree*</td><td colspan="2">96 UoC
(16 courses)</td></tr>
</table>

Stage 2 Electives: ANAT2111 (S1, S2, T1, T2), BABS2202 (S2, T2), MICR2011 (S1, T1)

Stage 3 Electives: BABS3041 (S1, T1), PATH3207 (S2, T3), PATH3208 (S2, T3) SOMS3232 (S2, T3)

This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here. Please consult with your other faculty for ideal structure of your other program.

Dual Degree ς Bachelor of Science with a major in Pharmacology

<table>
<tr><td>Major</td><td>66 UoC
(11 courses)</td><td rowspan="2">96 UoC</td><td rowspan="3">192 UoC</td></tr>
<tr><td>Science Electives</td><td>30 UoC
(5 courses)</td></tr>
<tr><td>Other degree*</td><td colspan="2">96 UoC
(16 courses)</td></tr>
</table>

Stage 2 Electives: BABS2202 (S2, T2), CHEM2021 (S2, T2), CHEM2041 (S1, S2, T1, T3), PHSL2201 (S2, T2), BIOC2181 (or BIOC2101) (S1, T2), BIOC2201 (S2, T3)

Stage 3 Electives: PHAR3101 (S2, T3), PHAR3102 (S1, T1), PHAR3202 (S2, T2), PHAR3251 (S1, T1)

Single Degree ς 3970 Bachelor of Science with a major in

Dual Degree ς Bachelor of Science with a major in Physical Oceanography

Please Note: Semester offerings are subject to change, please check the timetable prior to planning for your enrolment.

<table>
<tr><td>Major</td><td>66 UoC
(11 courses)</td><td rowspan="2">96 UoC</td><td rowspan="3">192 UoC</td></tr>
<tr><td>Science Electives</td><td>30 UoC
(5 courses)</td></tr>
<tr><td>Other degree*</td><td colspan="2">96 UoC
(16 courses)</td></tr>
</table>

Dual Degree ς Bachelor of Science with a major in Physics

In addition to the courses required for your major, students must also take *Science Electives* to make a total of 96 UoC

Single Degree ς 3970 Bachelor of Science with a major in Physiology (PHSLA13970)

Science Electives are courses taken from within the Faculty of Science, as defined by *Table 1* in the Online Handbook.

Free Electives may be from Science or from any other Faculty at UNSW.

General Education courses cannot be Science courses, and Science students cannot take GENS courses for their General Education.

Students cannot complete more than 72 UoC of Level 1 courses including any G, AMCID (o)5(m)-9(Sc)4(i)6(e)5(nc)8(e)5( )-6700412>R5n.

Single Degree ς 3970 Bachelor of Science with a major in Psychology (PSYCA13970)

PSYC1001 S1, T1	PSYC1011 S2, T2	PSYC1111 S2, T3	Science Elective	Science Elective	Science Elective	Science Elective	Science Elective
PSYC2001 S1, T1	PSYC2061 S1, T1	PSYC2071 S2, T3	PSYC2081 S1, T2	PSYC2101 S2, T3	Free Elective	Free Elective	Free Elective
PSYC3001 S1, T1	PSYC3011 S2, T3	6 UoC from Elective Stream A	6 UoC from Elective Stream B	6 UoC from Elective Stream A or B	General Education	General Education	Free Elective

Program Structure			
Major	78 UoC (13 courses)	108 UoC	144 UoC
Science Electives	30 UoC (5 courses)		
Free Electives	24 UoC (4 courses)	36 UoC	
General Education	12 UoC (2 courses)		

Information correct for students commencing the Bachelor of Science in 2017

In addition to the courses required for your major, students must also take *Science Electives*, *Free Electives*, and *General Education* courses. Students may use their Science Electives and/or Free Electives to complete a second major or minor.

Elective Stream A:
PSYC3051 (S2, T2), PSYC3211 (S2, T1), PSYC3221 (S1, T1), PSYC3241 (S1, T1), PSYC3311 (S1, T2), PSYC3371 (S2, T3)

Elective Stream B:
PSYC3121 (S2, T3), PSYC3141 (S1), PSYC3301 (S1, T2), PSYC3331 (S2, T3), PSYC3341 (S2, T2), PSYC3361 (S1, S2, T1, T2, T3)

Progression check Student ID:_____

Name: _____

Date:_____Advisor: _____

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Free Electives may be from Science or from any other Faculty at UNSW.

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Students cannot complete more than 72 UoC of Level 1 courses including any GEN courses and Level 1 courses taken for General Education.

Dual Degree ς Bachelor of Science with a major in Statistics

MATH1131 (S1,S2) or MATH1141 (S1)	MATH1231 (Summer, S2) or MATH1241 (S2)	Science Elective	Science Elective				
MATH2011 or MATH2111 S1, T1	MATH2501 or MATH2601 S1, T2	MATH2801 or MATH2901 S1, T2	MATH2831 or MATH2931 S2, T3				
MATH3801 or MATH3901 S1, T1	MATH3811 or MATH3911 S1, T1	MATH3821 S2, T2	MATH3831 (S1, T3) or MATH3841 (S2, T2) or MATH3851 (S2, T2) or MATH3871 (S1, T3)				
Science Elective	Science Elective	Science Elective	Science Elective				

Program Structure (Dual Degree Mode)			
Major	60 UoC (10 courses)	96 UoC	192 UoC
Science Electives	36 UoC (6 courses)		
Other Degree*	96 UoC (16 courses)		

Information correct for students commencing the Bachelor of Science on dual mode in 2017
**This template is not suitable for Engineering or Law dual degrees ς please see Science faculty*

Please Note: Semester offerings are subject to change, please check the timetable prior to planning for your enrolment.

This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here. Please consult with your other faculty for ideal structure of your other program.

In addition to the courses required for your major, students must also take *Science Electives* to make a total of 96 v6 212.5w6d40.4 9.6 reS EMC /P <MCID 108>BDC 76(o( )-12(t)7(ak)9(e)5( )]T

3970 Bachelor of Science with a major in Vision Science (VISNA13970)

BABS1201 S1, Summer, T1, T3	VISN1111 S1, T2	VISN1101 S2, T1	VISN1221 S2, T3	Science Elective	Science Elective	General Education	General Education
ANAT2111 S1, S2, T1, T2	VISN2111 S1, T2	PHSL2101 S1, T1	VISN2211 S2, T3	PHSL2201 S2, T2	Science Elective	Science Elective	Science Elective
VISN3111 S1, T1	VISN3211 S2	Science Elective	Science Elective	Free Elective	Free Elective	Free Elective	Free Elective

Program Structure			
Major	66 UoC (11 courses)	108 UoC	144 UoC
Science Electives	42 UoC (7 courses)		
Free Electives	24 UoC (4 courses)	36 UoC	
General Education	12 UoC (2 courses)		

Information correct for students commencing the Bachelor of Science in 2017

In addition to the courses required for your major, students must also take *Science Electives*, *Free Electives*, and *General Education* courses. Students may use their Science Electives and/or Free Electives to complete a second major or minor.

Check the Vision Science Major page in the Handbook for recommended electives.

Please Note: Semester offerings are subject to change, please check the timetable prior to planning for your enrolment.

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Free Electives may be from Science or from any other Faculty at UNSW.

General Education courses cannot be Science courses, and Science students cannot take GENS courses for their General Education.

Students cannot complete more than 72 UoC of Level 1 courses including any GEN courses and Level 1 courses taken for General Education.

Progression check Student ID:_____

Name: _____

Date:_____Advisor: _____

_____UOC Completed

_____UOC Remaining

(Including any enrolled courses)