Science

Bachelor of Science (3970)

2015 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

UNSW AUSTRALIA | Science

3970 Bachelor of Science with a major in

Anatomy (ANATA13970)

BABS1201	BIOS1101	CHEM1011 (S1 and S2) or CHEM1031 (S1)	MATH1041 (S1, S2) or MATH1031 (S1) or MATH1131 (S1, S2) or MATH1141 (S1)	General Education	General Education	Free Elective	Free Elective
ANAT2111	ANAT2241	6 UoC from Stage 2 Electives	6 UoC from Stage 2 Electives	Free Elective	Free Elective	Science Elective	Science Elective
6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	Science Elective	Science Elective	Science Elective	Science Elective

Program Structure			
Major	72 UoC (12 courses)	108 UoC	**144 UoC**
Science Electives	36 UoC (6 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 2015

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:
ANAT2341, ANAT2521, PATH2201, PHSL2101, PHSL2201

Stage 3 Electives:
ANAT3121, ANAT3131, ANAT3141, ANAT3212, ANAT3231, ANAT3411, NEUR3211

Recommended Electives:
NEUR3101, NEUR3221, PATH3205, PATH3207, PHSL3211, PHSL3221

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

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

BABS1201	COMP1917	COMP1927	CHEM1011 or CHEM1031	MATH1031 or MATH1131 or MATH1141	MATH1041 or MATH1231 or MATH1241	CHEM1021 (or CHEM1041	General Education
BINF2010	BIOC2201	BIOC2101	6 UoC from: MATH2801 or MATH2901	COMP2041	General Education	Science Elective	Science Elective
BABS3121	BABS3281	BINF3010	BINF3020	Free Elective	Free Elective	Free Elective	Free Elective

Program Structure			
Major	96 UoC (16 courses)	108 UoC	**144 UoC**
Science Electives	12 UoC (2 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 2015

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.

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

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

BABS1201 Summer, S1	BIOS1101 S2	BIOS1301 S1	MATH1041 S1, S2	General Education	General Education	Free Elective	Free Elective
BEES2041 S1	BABS2204 (S1) or BABS2264 (S2)	6 UoC from Stage 2 Electives	6 UoC from Stage 2 Electives	Free Elective	Free Elective	Science Elective	Science Elective
6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	Science Elective	Science Elective	Science Elective	Science Elective

Program Structure			
Major	72 UoC (12 courses)	108 UoC	**144 UoC**
Science Electives	36 UoC (6 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 2015

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:
BIOS2011, BIOS2031, BIOS2051, BIOS2061

Stage 3 Electives:
BIOS3011, BIOS3061, BIOS3161, BIOS3171, BIOS3221, BIOS3601, BIOS3711, BIOS6671 (or BIOS3671)

Recommended Electives:
CHEM1011 (or CHEM1031), GEOS2071, BIOS3081, BIOS3091, GEOS3911, BEES3041

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

3970 Bachelor of Science with a major in Biotechnology (BIOTA13970)

BABS1201	BABS1202	CHEM1011 (S1,S2) or CHEM1031 (S1)	CHEM1021 (Summer, S2) or CHEM1041 (S2)	MATH1031 (S1) or MATH1131 (S1,S2) or MATH1141 (S1)	MATH1041 (S1, S2) or MATH1231 (Summer, S2) or MATH1241 (S2)	General Education	General Education
S1	S2						
BABS2202	BIOC2201	MICR2011	6 UoC from: BIOC2101 (S1), BABS2204 (S2) or BABS2264 (S2)	6 UoC from Stage 2 Electives	Science Elective	Science Elective	Science Elective
S2	S2	S1					
BABS3031 (S2) or BABS3631 (S1, S2)	BABS3071	BABS3091	6 UoC from Stage 3 Electives	Free Elective	Free Elective	Free Elective	Free Elective
	S1	S2					

Program Structure			
Major	90 UoC (15 courses)	108 UoC	**144 UoC**
Science Electives	18 UoC (3 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 2015

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:
BABS2011, BIOS2011, CHEM2021, CHEM2041, PHSL2101

Stage 3 Electives:
BABS3061, BABS3121 (or BABS3621), BABS3021 (or MICR3621), BABS3041, BABS3081, BABS3151, BABS3281, BABS3291, BABS6741, BIOT3081, BIOC3111, BIOC3261, BIOC3271 (or BIOC3671), CHEM3901, FOOD3010, MICR3061, MICR3071

Note:
A student can specialise in a particular area of Biotechnology by selecting certain electives. Refer to the handbook to find recommended elective choices.

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

3970 Bachelor of Science with a major in Chemistry (CHEMA13970)

CHEM1011 (S1, S2) or CHEM1031 (S1)	CHEM1021 (Summer, S2) or CHEM1041 (S2)	MATH1031 (S1) or MATH1131 (S1,S2) or MATH1141 (S1)	MATH1041 (S1, S2) or MATH1231 (Summer, S2) or MATH1241 (S2)	PHYS1111 (S1,S2) or PHYS1121 (S1,S2) or PHYS1131 (S1,S2)	Science Elective	Science Elective	Science Elective
CHEM2011	CHEM2021	CHEM2041	CHEM2031 (S2) or CHEM2839 (S2)	General Education	General Education	Science Elective	Science Elective
6 UoC from Level III Chemistry	6 UoC from Level III Chemistry	6 UoC from Level III Chemistry	6 UoC from Level III courses not already taken or from CHEM electives	Free Elective	Free Elective	Free Elective	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 2015

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.

Level III Chemistry:
CHEM3011, CHEM3021, CHEM3031, CHEM6041

Electives:
CHEM3101, CHEM3901, CHEM6701, CHEM6702

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

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

GEOS1111	GEOS1211	MATH1041	Science Level 1 Elective	Science Elective	Science Elective	Science Elective	Science Elective
S2	S2	S1, S2					
BEES2041	GEOS2171	GEOS2181	GEOS2811	6 UoC from Stage 2 Electives	General Education	General Education	Free Elective
S1	S1	S1	S2				
GEOS3131	GEOS3141	GEOS3181	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	Free Elective	Free Elective	Free Elective
S1	S2						

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 2015

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, GEOS2291, GEOS2721

Stage 3 Electives:
GEOS3281, GEOS3811, GEOS3821, GEOS3911, GEOS6733, GEOS6734

Recommended Electives:
GEOS1701, CHEM1011 (or CHEM1031), CHEM1021 (or CHEM1041), BEES3041

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

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

BIOS1101	BIOS1301	GEOS1701	MATH1041	General Education	General Education	Science Elective	Science Elective
S2	S1	S1	S1, S2				
BEES2041	BIOS2011	GEOS2711	6 UoC from Stage 2 Electives	Science Elective	Science Elective	Science Elective	Science Elective
S1	S2	S2					
BIOS3601	BIOS6671 (S2) or BIOS3671 (S2)	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	Free Elective	Free Elective	Free Elective	Free Elective
S1							

Program Structure			
Major	72 UoC (12 courses)	108 UoC	**144 UoC**
Science Electives	36 UoC (6 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 2015

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:
BIOS2031, BIOS2051, BIOS2061

Stage 3 Electives:
BIOS3061, BIOS3091, BIOS3161, BIOS3081 (or BIOS3681)

Recommended Electives:
GEOS2811, MSCI2001, GEOS3911, BEES3041

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

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

BABS1201	FOOD1120	MATH1031	CHEM1011 (S1,S2) or CHEM1031 (S1)	CHEM1021 (Summer, S2) or CHEM1041 (S2)	Science Elective	Science Elective	Science Elective
S1	S1	S1					
BIOC2181	CHEM2921	FOOD2320	MICR2011	Science Elective	Science Elective	Science Elective	Free Elective
S1	S1	S2	S1				
FOOD3010	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	General Education	General Education	Free Elective	Free Elective	Free Elective
S1							

Program Structure			
Major	72 UoC (12 courses)	108 UoC	**144 UoC**
Science Electives	36 UoC (6 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 2015

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:
FOOD3030, FOOD3220, FOOD3801, FOOD3901

Recommended Electives:
MATH1041, PHYS1111*, FOOD1360*

Note:
*PHYS1111 is a prerequisite for FOOD1360, which is a prerequisite for FOOD3801

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

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

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

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 2015

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:
BIOC2101, MICR2011

Stage 3 Electives:
BABS3281, BINF3010

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

3970 Bachelor of Science with a major in Geography (GEOGG13970)

GEOS1601	GEOS1701	MATH1041	Science Level 1 Elective	Science Elective	Science Elective	Science Elective	Science Elective
S2	S1	S1, S2					
BEES2041	6 UoC from Stage 2 Electives	6 UoC from Stage 2 Electives	Science Elective	Science Elective	Science Elective	Free Elective	Free Elective
S1							
GEOS3911	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	Free Elective	Free Elective	General Education	General Education
S1							

Program Structure			
Major	60 UoC (10 courses)	108 UoC	**144 UoC**
Science Electives	48 UoC (8 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 2015

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:
GEOS2001, GEOS2641, GEOS2711, GEOS2721, GEOS2811, GEOS2821

Stage 3 Electives:
GEOS3611, GEOS3621, GEOS3641, GEOS3651, GEOS3721, GEOS3731, GEOS3761, GEOS3811, GEOS3821, GEOS3921

Recommended Electives:
BIOS1301, BEES3041

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

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

BABS1201	BIOS1101	GEOS1701	MATH1041	Science Elective	Science Elective	Science Elective	Science Elective
S1	S2	S1	S1, S2				
BEES2041	BIOS2031	GEOS2811	MSCI2001	General Education	General Education	Free Elective	Free Elective
S1	S2	S2	S2				
BIOS3091	MSCI3001	BIOS3081 (S1) or BIOS3681 (S1)	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	Science Elective	Free Elective	Free Elective
S2	S2						

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 2015

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, GEOS3911, GEOS3921, MSCI3201, BIOS6671 (or BIOS3671)

Recommended Electives:
BIOS1301, GEOS1211, CHEM1011 (or CHEM1031), CHEM1021 (or CHEM1041), GEOS2721, BEES3041

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

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

CHEM1011 (S1,S2) or CHEM1031 (S1)	MATH1131 (S1,S2) or MATH1141 (S1)	MATH1231 (Summer, S2) or MATH1241 (S2)	MATS1192	PHYS1121 (S1,S2) or PHYS1131 (S1,S2)	Science Elective	Science Elective	Science Elective
			S2				
MATS2001	MATS2003	MATS2004	MATS2006	MATS2008	Science Elective	Science Elective	Free Elective
MATS3001	MATS3002	MATS3004	General Education	General Education	Free Elective	Free Elective	Free Elective
S1	S1	S2					

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 2015

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.

Recommended Electives:
ENGG1811 (or COMP1911), MATH2019

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

3970 Bachelor of Science with a major in Mathematics (MATHM13970)

MATH1131 (S1,S2) or MATH1141 (S1)	MATH1231 (S2, Summer) or MATH1241 (S2)	Science Elective	Science Elective	Science Elective	Science Elective	Science Elective	Science Elective
MATH2011 (S1) or MATH2111 (S1)	MATH2121 (S2) or MATH2221 (S2)	MATH2501 (S2) or MATH2601 (S2)	MATH2521 or MATH2621	MATH2801 (S1) or MATH2901 (S1)	Science Elective	Science Elective	Free Elective
6 UoC of non-statistics level 3 (or hybrid) MATH course*	6 UoC of non-statistics level 3 (or hybrid) MATH course*	6 UoC of any level 3 (or hybrid) MATH course not already taken	Free Elective	Free Elective	Free Elective	General Education	General Education

Program Structure			
Major	60 UoC (10 courses)	108 UoC	**144 UoC**
Science Electives	48 UoC (8 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 2015

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.

Recommended Electives:
MATH1081, MATH2301

Note:
*Courses numbered from MATH3000 to MATH3799 or MATH6700 to MATH6899 inclusive are non-statistics Mathematics 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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

3970 Bachelor of Science with a major in Microbiology (MICRB13970)

BABS1201	BABS1202	CHEM1011 (S1,S2) or CHEM1031 (S1)	CHEM1021 (S2, Summer) or CHEM1041 (S2)	MATH1031 (S1) or MATH1131 (S1,S2) or MATH1141 (S1)	MATH1041 (S1,S2) or MATH1231 (S2, Summer) or MATH1241 (S2)	General Education	General Education
S1, Summer	S2						
BABS2202	BIOC2201	MICR2011	6 UoC from Stage 2 Electives	Science Elective	Science Elective	Science Elective	Science Elective
S2	S2	S1					
BABS3081	MICR3061	MICR3071	6 UoC from Stage 3 Electives	Free Elective	Free Elective	Free Elective	Free Elective
S1	S2	S1					

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 2015

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:
BIOC2101, BABS2204 (or BABS2264)

Stage 3 Electives:
BABS3041, BABS3021 (or MICR3621)

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

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

BABS1201 Summer, S1	BABS1202 S2	CHEM1011 (S1,S2) or CHEM1031 (S1)	CHEM1021 (Summer, S2) or CHEM1041 (S2)	MATH1031 (S1) or MATH1131 (S1,S2) or MATH1141 (S1)	MATH1041 (S1,S2) or MATH1231 (Summer, S2) or MATH1241 (S2)	Science Elective	Science Elective
BABS2202 S2	BIOC2101 S1	BIOC2201 S2	6 UoC from Stage 2 Electives	General Education	General Education	Science Elective	Science Elective
BIOC3271 (S2) or BIOC3671 (S2)	BIOC3261 S2	6 UoC from Stage 3 Electives	Science Elective	Free Elective	Free Elective	Free Elective	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 2015

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:
MICR2011, BABS2204 (or BABS2264)

Stage 3 Electives:
BABS3281, BIOC3111, BABS3121

Recommended Electives for students interested in Biochemistry:
CHEM2021, CHEM2041, BABS3021 (or MICR3621), CHEM3021, CHEM6041

Recommended Electives for students interested in Genetics:
BABS3021 (or MICR3621), BINF3010

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

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

BABS1201	BIOS1101	MATH1041	PSYC1001	PSYC1011	CHEM1011 (S1, S2) or CHEM1031 (S1)	General Education	General Education
S1, Summer	S2	S1, S2	S1	S2			
NEUR2201	PHSL2101	6 UoC from Stage 2 Electives	6 UoC from Stage 2 Electives	6 UoC from Stage 2 Electives	Science Elective	Science Elective	Science Elective
S2	S1						
6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	Science Elective	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 2015

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:
PHAR2011, PSYC2001, PSYC2081, ANAT2511 (or ANAT2111)

Stage 3 Electives:
ANAT3411, NEUR3121, PHAR3202, PSYC3051

Recommended Electives:
CHEM1021 (or CHEM1041), BIOC2181 (or BIOC2101), PSYC2071, NEUR3211, NEUR3221, PSYC3221

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

3970 Bachelor of Science with a major in Pathology (PATHA13970)

BABS1201	BIOS1101	CHEM1011 (S1, S2) or CHEM1031 (S1)	CHEM1021 (Summer, S2) or CHEM1041 (S2)	Science Elective	Science Elective	Science Elective	Science Elective
S1, Summer	S2						
ANAT2241	PATH2201	BIOC2181 (S1) or BIOC2101 (S1)	6 UoC from Stage 2 Electives	Science Elective	Science Elective	Science Elective	General Education
S1	S2						
PATH3205	PATH3206	6 UoC from Stage 3 Electives	Free Elective	Free Elective	Free Elective	Free Elective	General Education
S1	S1						

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 2015

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:
ANAT2111, BABS2202, MICR2011

Stage 3 Electives:
ANAT3212, BABS3041, PATH3207, PATH3208

Recommended Electives:
MATH1041

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

3970 Bachelor of Science with a major in Pharmacology (PHARA13970)

BABS1201 S1, Summer	CHEM1011 (S1,S2) or CHEM1031 (S1)	CHEM1021 (Summer, S2) or CHEM1041 (S2)	MATH1041 (S1, S2) or MATH1031 (S1) or MATH1131 (S1, S2) or MATH1141 (S1)	Science Elective	Science Elective	Science Elective	Science Elective
PHAR2011 S2	PHSL2101 S1	6 UoC from Stage 2 Electives	6 UoC from Stage 2 Electives	Science Elective	Science Elective	Science Elective	General Education
6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	Free Elective	Free Elective	Free Elective	Free Elective	General Education

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 2015

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:
BABS2202, CHEM2021, CHEM2041, PHSL2201, BIOC2181 (or BIOC2101), BIOC2291 (or BIOC2201)

Stage 3 Electives:
PHAR3101, PHAR3102, PHAR3202, PHAR3251

Recommended Electives:
BIOC3111, BIOC3271, CHEM6041, NEUR3221, PHSL3211, PHSL3221

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

3970 Bachelor of Science with a major in Physical Oceanography (MATHN13970)

MATH1131 (S1, S2) or MATH1141 (S1)	MATH1231 (Summer, S2) or MATH1241 (S2)	PHYS1121 (S1,S2) or PHYS1131 (S1, S2)	PHYS1221 (Summer, S2) or PHYS1231 (Summer, S2)	Science Elective	Science Elective	Science Elective	Science Elective
MATH2011 (S1) or MATH2111 (S1)	MATH2121 (S2) or MATH2221 (S2)	MATH2241 S1	MATH2301 S1	Science Elective	Science Elective	Science Elective	General Education
MATH3041 S1	MATH3121 S2	MATH3261 S2	Free Elective	Free Elective	Free Elective	Free Elective	General Education

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 2015

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.

Recommended Electives:
MATH1081, PHYS2801

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

3970 Bachelor of Science with a major in Physical Science (PHYSK13970)

PHYS1121 (S1,S2) or PHYS1131 (S1,S2) or PHYS1141 (S1)	PHYS1221 (Summer,S2) or PHYS1231 Summer, S2) or PHYS1241 (S2)	MATH1131 (S1,S2) or MATH1141 (S1)	MATH1231 (Summer,S2) or MATH1241 (S2)	Science Elective	Science Elective	Science Elective	Science Elective
PHYS2110 S1	PHYS2210 S2	MATH2011 (S1) or MATH2111 (S1)	MATH2121 (S2) or MATH2221 (S2)	6 UoC of level II or III PHYS course	6 UoC of level II or III PHYS course	Science Elective	Free Elective
6 UoC of level III PHYS courses	6 UoC of level III PHYS courses	6 UoC of level III PHYS courses	General Education	General Education	Free Elective	Free Elective	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 2015

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.

Recommended Electives:
Students who wish to take honours in Physics should take 24 UOC of level III PHYS courses which include: PHYS3011, PHYS3021, PHYS3031

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

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

BABS1201 S1, Summer	CHEM1011 (S1,S2) or CHEM1031 (S1)	MATH1041 (S1, S2) or MATH1031 (S1) or MATH1131 (S1, S2) or MATH1141 (S1)	6 UoC from Stage 1 Electives	Science Elective	Science Elective	Science Elective	Science Elective
PHSL2101 S1	PHSL2201 S2	6 UoC from Stage 2 Electives	6 UoC from Stage 2 Electives	Science Elective	Science Elective	Science Elective	General Education
6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	6 UoC from Stage 3 Electives	Free Elective	Free Elective	Free Elective	Free Elective	General Education

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 2015

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 1 Electives:
BIOS1101, CHEM1021 (or CHEM1041), PHYS1111 (or PHYS1121 or PHYS1131)

Stage 2 Electives:
NEUR2201, PHAR2011, BIOC2181 (or BIOC2101), BIOC2291 (or BIOC2201)

Stage 3 Electives:
NEUR3101, NEUR3121, NEUR3221, PHSL3211, PHSL3221

Recommended Electives: BIOC3261

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

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

PSYC1001	PSYC1011	PSYC1111	Science Level 1 Elective	Science Elective	Science Elective	Science Elective	Science Elective
S1	S2	S2					
PSYC2001	PSYC2061	PSYC2071	PSYC2081	PSYC2101	Free Elective	Free Elective	Free Elective
S1	S1	S2	S1	S2			
PSYC3001	PSYC3011	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
S1	S2						

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 2015

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.

Elective Stream A:
PSYC3051, PSYC3211, PSYC3221, PSYC3241, PSYC3311, PSYC3371

Elective Stream B:
PSYC3121, PSYC3141, PSYC3301, PSYC3331, PSYC3341, PSYC3361

Recommended Elective:
PSYC1031

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

3970 Bachelor of Science with a major in Statistics (MATHT13970)

MATH1131 (S1,S2) or MATH1141 (S1)	MATH1231 (Summer, S2) or MATH1241 (S2)	Science Level 1 Elective	Science Level 1 Elective	Science Elective	Science Elective	Science Elective	Science Elective
MATH2011 (S1) or MATH2111 (S1)	MATH2501 (S2) or MATH2601 (S2)	MATH2801 (S1) or MATH2901 (S1)	MATH2831 (S2) or MATH2931 (S2)	Science Elective	Science Elective	Free Elective	Free Elective
MATH3801 (S1) or MATH3901 (S1)	MATH3811 (S1) or MATH3911 (S1)	MATH3821 S2	MATH3831 (S1) or MATH3841 (S2) or MATH3851 (S2) or MATH3871 (S1)	Free Elective	Free Elective	General Education	General Education

Program Structure			
Major	60 UoC (10 courses)	108 UoC	**144 UoC**
Science Electives	48 UoC (8 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 2015

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.

Recommended Electives:
MATH1081

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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

UNSW AUSTRALIA | Science

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

BABS1201	MATH1031 (S1) or MATH1131 (S1,S2) or MATH1141 (S1)	VISN1111	VISN1101	VISN1221	PHYS1111 (S1,S2) or PHYS1121 (S1,S2) or PHYS1131 (S1,S2)	General Education	General Education
S1, Summer		S1	S2	S2			
ANAT2111	VISN2111	OPTM2190	VISN2211	VISN2231	Science Elective	Science Elective	Science Elective
S1, S2	S1	S1	S2	S2			
VISN3111	PSYC3221 (S1) or OPTM3131 (S1) or ANAT3411 (S1)	VISN3211	PSYC3211 (S2) or OPTM3231 (S2) or ANAT3131 (S2) or VISN3131	Free Elective	Free Elective	Free Elective	Free Elective
S1		S2					

Program Structure			
Major	90 UoC (15 courses)	108 UoC	**144 UoC**
Science Electives	18 UoC (3 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 2015

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.

Recommended Electives:
PSYC1011, PSYC1001, PSYC2071, PSYC2001, SCIF2041, SCIF3041

Note:
Students intending to apply for transfer into the **Bachelor of Optometry/Bachelor of Science** (program 3952) via the alternative entry pathway should elect to do the following 6 UOC course: CHEM1031 and CHEM1829

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.

Recommended Electives are not required, but are recommended as complementary courses for this major when choosing electives.

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