

Bachelor of Science/Education (Secondary) 4076



T3 2020 Commencing Students

Science Major*	Sample program satisfies NESA Accreditation for the following teaching areas in NSW Secondary Schools	Page
Biology	Biology (Year 11 & 12) AND Investigating Science (Year 11 & 12)	1
Chemistry	Chemistry (Year 11&12) AND Investigating Science (Year 11 & 12)	2
Ecology	Earth & Environmental Science (Year 11&12) AND Investigating Science (Year 11 & 12)	3
Geography	<i>EITHER</i> Geography (Year 7-12) <i>OR</i> Earth & Environmental Science (Year 11&12) AND Investigating Science (Year 11 & 12)	4
Pathology	Biology (Year 11&12) AND Investigating Science (Year 11 & 12)	5
	Chemistry (Year 11&12) AND Biology (Year 11&12) AND Investigating Science (Year 11 & 12)	6
Physics	Physics (Year 11&12) AND Investigating Science (Year 11 & 12)	7
Physiology	Biology (Year 11&12) AND Investigating Science (Year 11 & 12)	8
	Chemistry (Year 11&12) AND Biology (Year 11&12) AND Investigating Science (Year 11 & 12)	9
<i>Students who follow any of the <u>above</u> sample programs will also be approved to teach Science (Year 7-10) by NSW Department of Education</i>		
Mathematics for Education	Mathematics (Year 7-12)	10
	Mathematics (Year 7-12) AND Physics (Year 11&12)	11

*N.B. In addition to the standard requirements for each major stream, students will use their Science Electives to complete additional courses required to satisfy NESA accreditation requirements for Investigating Science (Year 11 & 12), please see notes on individual sample programs.

Students who do not want accreditation for Investigating Science should contact Arts & Social Sciences Student Services.

Bachelor of Science/Education (Secondary) 4076

T3 2020 Commencing Students – Biology Major

Teaching Areas: Biology (Year 11 & 12) AND Investigating Science (Year 11 & 12) AND Science (Year 7-10) (see table of contents for more details)

	Term 1	Term 2	Term 3
Year 1			EDST1101
			BABS1201
			Science Elective*

	Term 1	Term 2	Term 3
Year 2	EDST1104	EDST1108	BABS2204
	BIOS1301	BIOS1101	MATH1041
	Science Elective*		Level 2 Biology Elective

	Term 1	Term 2	Term 3
Year 3	EDST2003	Education Elective	EDST2002
	BEES2041	Science Elective*	Level 3 Biology Elective
	Level 2 Biology Elective	Level 3 Biology Elective	

	Term 1	Term 2	Term 3
Year 4	EDST4084	EDST6760	EDST4080
	EDST6922	EDST6958	Level 3 Biology Elective
	EDST6926	EDST6956	

	Term 1	Term 2	Term 3
Year 5	EDST4096	EDST6765 (12 UOC) <i>Cannot be studied concurrently with another course</i>	
	Level 3 Biology Elective		
	Level 3 Biology Elective		

Notes

*In addition to the regular requirements for the Biology major, students will use their Science Electives to complete the following courses, to satisfy NESA accreditation requirements for Investigating Science (Year 11 & 12):

CHEM1011 (T1, T2, T3) OR CHEM1031 (T1)

AND PHYS1111 (T1, T3) OR PHYS1121^ (T1, T2, T3)

^If PHYS1121 is chosen, students must also complete the co-requisite MATH1131 (T1, T2, T3) as a Prescribed Science Elective

Bachelor of Science/Education (Secondary) 4076



T3 2020 Commencing Students – Chemistry Major

Teaching Areas: Chemistry (Year 11 & 12) AND Investigating Science (Year 11 & 12) AND Science (Year 7–10) (see table of contents for more details)

	Term 1	Term 2	Term 3
Year 1			EDST1101
			MATH1031 or 1131 or 1141
			CHEM1011 or CHEM1031 (T1)

	Term 1	Term 2	Term 3
Year 2	EDST1104	EDST1108	PHYS1111 or PHYS1121 or PHYS1131
	CHEM1021 or CHEM1041 (T2)	Science Elective*	CHEM2041
	MATH1041 or 1231 or 1241		Science Elective*

	Term 1	Term 2	Term 3
Year 3	EDST2003	CHEM2011	EDST2002
	Science Elective*	CHEM2021	CHEM2031
		Level 3 Chemistry Elective	Education Elective

	Term 1	Term 2	Term 3
Year 4	EDST4084	EDST6760	EDST4080
	EDST6922	EDST6958	Level 3 Chemistry Elective
	EDST6925	EDST6955	

	Term 1	Term 2	Term 3
Year 5	EDST4096	EDST6765 (12 UOC) <i>Cannot be studied concurrently with another course</i>	
	Level 3 Chemistry Elective		
	Level 3 Chemistry Elective		

Notes

*In addition to the regular requirements for the Chemistry major, students will use their Science Electives to complete the following courses, to satisfy NESA accreditation requirements for Investigating Science (Year 11 & 12):

BIOS1101 (T2) OR BABS1201 (T1, T3) OR BIOS2500 (T2) OR BEES2741 (T2)

AND BIOS1301 (T1) OR GEOS1701 (T2) OR GEOS1211 (T1) OR CLIM2001 (T1) OR GEOS2821 (T2) OR GEOS2021 (T2) OR GEOS2241 (T3) OR GEOS2291 (T3)

At least one of the above must be a Level 2 course

Bachelor of Science/Education (Secondary) 4076



T3 2020 Commencing Students – Ecology Major

Teaching Areas: Earth & Environmental Science (Year 11 & 12) AND Investigating Science (Year 11 & 12) AND Science (Year 7-10) (see table of contents for more details)

	Term 1	Term 2	Term 3
Year 1			EDST1101
			MATH1041
			Science Elective*

	Term 1	Term 2	Term 3
Year 2	EDST1104	EDST1108	Level 2 Ecology Elective
	BIOS1301	BIOS1101	Science Elective*
	Science Elective*	GEOS1701	

	Term 1	Term 2	Term 3
Year 3	EDST2003	GEOS2711	EDST2002
	BEES2041	Education Elective	BIOS3061
	BIOS2011		BIOS6671

	Term 1	Term 2	Term 3
Year 4	EDST4084	EDST6760	EDST4080
	EDST6922	EDST6958	Level 3 Ecology Elective
	EDST6924	EDST6954	

	Term 1	Term 2	Term 3
Year 5	EDST4096	EDST6765 (12 UOC) Cannot be studied concurrently with another course	
	BIOS3601		
	Level 3 Ecology Elective		

Notes

*In addition to the regular requirements for the Ecology major, students will use their Science Electives to complete the following courses, to satisfy NESA accreditation requirements for Investigating Science (Year 11 & 12):

CHEM1011 (T1, T2, T3) OR CHEM1031 (T1)

AND PHYS1111 (T1, T3) OR PHYS1121^ (T1, T2, T3)

^If PHYS1121 is chosen, students must also complete the co-requisite MATH1131 (T1, T2, T3) as a Prescribed Science Elective either before or concurrently with PHYS1121

Bachelor of Science/Education (Secondary) 4076

T3 2020 Commencing Students – Geography Major

Teaching Areas: *EITHER* Earth & Environmental Science (Year 11 & 12) *OR* Geography (Year 11 & 12), *AND* Investigating Science (Year 11 & 12) *AND* Science (Year 7-10)
(see table of contents for more details)

	Term 1	Term 2	Term 3
Year 1			EDST1101
			MATH1041 [^]
			Science Elective*

	Term 1	Term 2	Term 3
Year 2	EDST1104	EDST1108	Science Elective*
	BIOS1301	GEOS1701	Level 2 Geography Elective
		Science Elective*	Level 2 Geography Elective

	Term 1	Term 2	Term 3
Year 3	EDST2003	GEOS2821	EDST2002
	GEOS3911	GEOS3761	Education Elective
	BEES2041	Level 2 Geography Elective	

	Term 1	Term 2	Term 3
Year 4	EDST4084	EDST6760	EDST4080
	EDST6922	EDST6958	GEOS3921
	EDST6924 or EDST6706	EDST6954 or EDST6736	

	Term 1	Term 2	Term 3
Year 5	EDST4096	EDST6765 (12 UOC) <i>Cannot be studied concurrently with another course</i>	
	Level 3 Geography Elective		
	Level 3 Geography Elective		

Notes

*In addition to the regular requirements for the Geography major, students will use their Science Electives to complete the following courses, to satisfy NESA accreditation requirements for Investigating Science (Year 11 & 12):

PHYS1111 (T1, T3) OR PHYS1121[^] (T1, T2, T3)

AND BIOS2500 (T2) OR BEES2741 (T2)

AND CHEM1011 (T1, T2, T3) OR CHEM1031 (T1)

[^]If PHYS1121 is chosen from the above options, students must complete the co-requisite MATH1131 (T1, T2, T3) in place of MATH1041

Bachelor of Science/Education (Secondary) 4076

T3 2020 Commencing Students – Pathology Major

Teaching Areas: Biology (Year 11 & 12) AND Investigating Science (Year 11 & 12) AND Science (Year 7-10) (see table of contents for more details)

	Term 1	Term 2	Term 3
Year 1			EDST1101
			CHEM1011 or CHEM1031 (T1)
			BABS1201

	Term 1	Term 2	Term 3
Year 2	EDST1104	EDST1108	Science Elective*
	CHEM1021or CHEM1041 (T2)	BIOC2181 or BIOC2101	PATH2201
	Science Elective*	ANAT2241	

	Term 1	Term 2	Term 3
Year 3	EDST2003	PATH3206	EDST2002
	Science Elective*	BIOS1101	Science Elective*
	Level 2 Pathology Elective		Education Elective

	Term 1	Term 2	Term 3
Year 4	EDST4084	EDST6760	EDST4080
	EDST6922	EDST6958	Level 3 Pathology Elective
	EDST6926	EDST6956	

	Term 1	Term 2	Term 3
Year 5	EDST4096	EDST6765 (12 UOC) <i>Cannot be studied concurrently with another course</i>	
	Science Elective*		
	PATH3205		

Notes

*In addition to the regular requirements for the Pathology major, students will use their Science Electives to complete the following courses, to satisfy NESA accreditation requirements for Investigating Science (Year 11 & 12):

BIOS1301 (T1) OR GEOS1701 (T2) OR GEOS1211 (T1)

AND PHYS1111 (T1, T3) OR PHYS1121^ (T1, T2, T3)

^If PHYS1121 is chosen, students must also complete the co-requisite MATH1131 (T1, T2, T3) as a Prescribed Science Elective either before or concurrently with PHYS1121

Bachelor of Science/Education (Secondary) 4076

T3 2020 Commencing Students – Pathology Major

Teaching Areas: Biology (Year 11 & 12) AND Chemistry (Year 11 & 12) AND Investigating Science (Year 11 & 12) AND Science (Year 7–10)
(see table of contents for more details)

	Term 1	Term 2	Term 3
Year 1			EDST1101
			CHEM1011 or CHEM1031 (T1)
			BABS1201

	Term 1	Term 2	Term 3
Year 2	EDST1104	EDST1108	CHEM2041 (Science Elective*)
	CHEM1021or CHEM1041 (T2)	BIOC2181 or BIOC2101	PATH2201
	Science Elective*	ANAT2241	

	Term 1	Term 2	Term 3
Year 3	EDST2003	BIOS1101	EDST2002
	PATH3205	PATH3206	Education Elective
	Level 2 Pathology Elective	Science Elective*	

	Term 1	Term 2	Term 3
Year 4	EDST4084	EDST6760	EDST4080
	EDST6922	EDST6958	Science Elective*
	EDST6927	EDST6957	

	Term 1	Term 2	Term 3
Year 5	EDST4096	EDST6765 (12 UOC) <i>Cannot be studied concurrently with another course</i>	
	Level 3 Pathology Elective		
	Science Elective*		

Notes

*In addition to the regular requirements for the Pathology major, students will use their Science Electives to complete the following courses, to satisfy NESA accreditation requirements for Investigating Science (Year 11 & 12):

BIOS1301 (T1) or GEOS1701 (T2) OR GEOS1211 (T1)

AND PHYS1111 (T1, T3)

Students will also use their Science Electives to complete the following course, to satisfy NESA accreditation requirements for Chemistry (Year 11 & 12):

CHEM2041

AND 6uoc Level 3 Chemistry – good options are CHEM6041 (T2) or CHEM3901 (T3) to round out your Chemistry knowledge.

Bachelor of Science/Education (Secondary) 4076

T3 2020 Commencing Students – Physics Major

Teaching Areas: Physics (Year 11 & 12) AND Investigating Science (Year 11 & 12) AND Science (Year 7-10) (see table of contents for more details)

	Term 1	Term 2	Term 3
Year 1			EDST1101
			MATH1131 or MATH1141
			PHYS1121 or PHYS1131 or PHYS1141 (T1)

	Term 1	Term 2	Term 3
Year 2	EDST1104	EDST1108	MATH2069
	PHYS1221 or PHYS1231 or PHYS1241 (T3)	MATH2089	Science Elective*
	MATH1231 or MATH1241	Science Elective*	

	Term 1	Term 2	Term 3
Year 3	EDST2003	PHYS3111	EDST2002
	PHYS2111	PHYS2114	Level 2 or 3 Physics Elective
	Science Elective*		Education Elective

	Term 1	Term 2	Term 3
Year 4	EDST4084	EDST6760	EDST4080
	EDST6922	EDST6958	Level 2 or 3 Physics Elective
	EDST6923	EDST6953	

	Term 1	Term 2	Term 3
Year 5	EDST4096	EDST6765 (12 UOC) <i>Cannot be studied concurrently with another course</i>	
	PHYS3112		
	PHYS3113		

Notes

*In addition to the regular requirements for the Physics major, students will use their Science Electives to complete the following courses, to satisfy NESA accreditation requirements for Investigating Science (Year 11 & 12):

BIOS1101 (T2) OR BABS1201 (T1, T3) OR BABS1202 (T2) OR BIOS2500 (T2) OR BEES2741 (T2)

AND CHEM1011 (T1, T2, T3) OR CHEM1031 (T1)

AND BIOS1301 (T1) OR GEOS 1701 (T2) OR GEOS1211 (T1) CLIM2001 (T1) OR GEOS2821 (T2) OR GEOS2021 (T2) OR GEOS2241 (T3) OR GEOS2291 (T3)

At least one of the above must be a Level 2 course

Bachelor of Science/Education (Secondary) 4076

T3 2020 Commencing Students – Physiology Major

Teaching Areas: Biology (Year 11 & 12) AND Investigating Science (Year 11 & 12) AND Science (Year 7-10) (see table of contents for more details)

	Term 1	Term 2	Term 3
Year 1			EDST1101
			BABS1201
			MATH1031 or MATH1041 or MATH1131 or MATH1141

	Term 1	Term 2	Term 3
Year 2	EDST1104	EDST1108	Science Elective*
	CHEM1011 or CHEM1031	Level 1 Physiology Elective*	Level 2 Physiology Elective*
	Science Elective*		Level 2 Physiology Elective*

	Term 1	Term 2	Term 3
Year 3	EDST2003	Level 3 Physiology Elective	EDST2002
	PHSL2101	PHSL2201	Level 3 Physiology Elective
	Science Elective*		Education Elective

	Term 1	Term 2	Term 3
Year 4	EDST4084	EDST6760	EDST4080
	EDST6922	EDST6958	Science Elective*
	EDST6926	EDST6956	

	Term 1	Term 2	Term 3
Year 5	EDST4096	EDST6765 (12 UOC) <i>Cannot be studied concurrently with another course</i>	
	Science Elective*		
	Level 3 Physiology Elective		

Notes

*In addition to the regular requirements for the Physiology major, students will need to complete the below courses, to satisfy NESA accreditation requirements for Investigating Science (Year 11 & 12).

BIOS1301 (T1) or GEOS1701 (T2) or GEOS1211 (T1) (**taken as Science Elective**)

AND PHYS1111 (T1, T3) or PHYS1121^ (T1, T2, T3) (**taken as Science Elective or Level 1 Physiology Elective**)

AND BIOC2101 (T2) or BIOC2181 (T2) (**taken as Science Elective or Level 2 Physiology Elective**) or CHEM2041 (**taken as Science Elective**)

^If PHYS1121 is chosen, students must complete the co-requisite MATH1131 (T1, T2, T3) as a Science Elective either before or concurrently with PHYS1121

Bachelor of Science/Education (Secondary) 4076

T3 2020 Commencing Students – Physiology Major

Teaching Areas: Biology (Year 11 & 12) AND Chemistry (Year 11 & 12) AND Investigating Science (Year 11 & 12) AND Science (Year 7–10)
(see table of contents for more details)

	Term 1	Term 2	Term 3
Year 1			EDST1101
			BABS1201
			CHEM1011 or CHEM1031 (T1)

	Term 1	Term 2	Term 3
Year 2	EDST1104	EDST1108	Science Elective*
	MATH1031 or MATH1041 or MATH1131 or MATH1141	Level 2 Physiology Elective*	Level 2 Physiology Elective*
	Science Elective*	Level 1 Physiology Elective*	

	Term 1	Term 2	Term 3
Year 3	EDST2003	Lvl 3 Physiology Elective	EDST2002
	PHSL2101	PHSL2201	Lvl 3 Physiology Elective
	Science Elective*		Science Elective*

	Term 1	Term 2	Term 3
Year 4	EDST4084	EDST6760	EDST4080
	EDST6922	EDST6958	Education Elective
	EDST6927	EDST6957	

	Term 1	Term 2	Term 3
Year 5	EDST4096	EDST6765 (12 UOC) <i>Cannot be studied concurrently with another course</i>	
	Science Elective*		
	Lvl 3 Physiology Elective		

Notes

*Students will need to complete the below courses, to satisfy NESA accreditation requirements for Investigating Science (Year 11 & 12).

BIOS1301 (T1) or GEOS1701 (T2) or GEOS1211 (T1) (*as Science El.*)

AND PHYS1111 (T1, T3) or PHYS1121^ (T1, T2, T3) (*as Science El. or Level 1 Physiology El.*)

AND BIOC2101 (T2) or BIOC2181 (T2) (*as Science El. or Level 2 Physiology El.*)

^If PHYS1121 is chosen, students must complete co-requisite MATH1131 (T1, T2, T3) (*as Science El.*) either before or concurrently with PHYS1121

Students will also complete the following courses, to satisfy NESA accreditation requirements for Chemistry (Year 11 & 12):

6uoc Level 1 Chemistry (*as Science El. or Level 1 Physiology Core or El.*)

AND CHEM2041 (*as Science El.*)

AND 6uoc Level 3 Chemistry – good options are CHEM6041 (T2) or CHEM3901 (T3) to round out your Chemistry knowledge. (*as Science El.*)

Bachelor of Science/Education (Secondary) 4076

T3 2020 Commencing Students – Mathematics for Education Major

Teaching Areas: Mathematics (Year 7-12) (see table of contents for more details)

	Term 1	Term 2	Term 3
Year 1			EDST1101
			Science Elective
			MATH1131 or MATH1141

	Term 1	Term 2	Term 3
Year 2	EDST1104	EDST1108	MATH2521 or MATH2621
	MATH1231 or MATH1241	MATH2801 or MATH2901	MATH1081
	Science Elective		Science Elective

	Term 1	Term 2	Term 3
Year 3	EDST2003	MATH2501 or MATH2601	EDST2002
	MATH2011 or MATH2111	MATH2121 or MATH2221	Science Elective
	Science Elective		Education Elective

	Term 1	Term 2	Term 3
Year 4	EDST4084	EDST6760	EDST4080
	EDST6725	EDST6755	MATH3511 or MATH3531 or MATH3701
	EDST6726	EDST6756	

	Term 1	Term 2	Term 3
Year 5	EDST4096	EDST6765 (12 UOC) <i>Cannot be studied concurrently with another course</i>	
	MATH3560 & MATH3570		
	Level 3 MATH		

Bachelor of Science/Education (Secondary) 4076

T3 2020 Commencing Students – Mathematics for Education Major

Teaching Areas: Mathematics (Year 7-12) AND Physics (Year 11 & 12) (see *table of contents for more details*)

	Term 1	Term 2	Term 3
Year 1			EDST1101
			PHYS1121*
			MATH1131 or MATH1141

	Term 1	Term 2	Term 3
Year 2	EDST1104	EDST1108	MATH2521 or MATH2621
	MATH1231 or MATH1241	MATH2121 or MATH2221	MATH1081
		MATH2801 or MATH2901	PHYS1221*

	Term 1	Term 2	Term 3
Year 3	EDST2003	PHYS2114*	EDST2002
	MATH2011 or MATH2111	MATH2501 or MATH2601	PHYS3116*
	PHYS2111*		Education Elective

	Term 1	Term 2	Term 3
Year 4	EDST4084	EDST6760	EDST4080
	EDST6725	EDST6755	MATH3511 or MATH3531 or MATH3701
	EDST6923	EDST6953	

	Term 1	Term 2	Term 3
Year 5	EDST4096	EDST6765 (12 UOC) <i>Cannot be studied concurrently with another course</i>	
	MATH3560 & MATH3570		
	Level 3 MATH		

Notes

*In addition to the regular requirements for the Mathematics for Education major, students will use their Science Electives to complete the Physics courses identified, to satisfy NESA accreditation requirements for Physics (Year 11 & 12)

Substitutions are not allowed unless approved by the Bachelor of Education Program Director.