

GUIDELINES FOR BACHELOR OF SCIENCE GENERAL SCIENCE

HIGH SCHOOL PREREQUISITES

ENGLISH		
IF YOU TOOK	YOUR GRADE	CHOOSE
English Studies 12 or English First Peoples 12 or	73% or higher	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> </div> <div style="border-left: 1px solid black; padding-left: 5px; margin-left: 10px;"> ENGL 1100 (recommended) or ENGL 1110 or ENGL 1120 or ENGL 1140 or 1150 or ENGL 1210 </div> </div>
ESAL 0570 and 0580 or	65% or higher	
ENGL 0600 or ENGL 0620	65% or higher	
English Studies 12 or English First Peoples 12	Below 73%	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> </div> ACCUPLACER Assessment or ENGL 0600 or 0620 </div>
BIOLOGY		
IF YOU TOOK	YOUR GRADE	CHOOSE
Life Sciences 11 or Biology 11 or Anatomy & Physiology 12 or Biology 12 AND Chemistry 11	67% or higher	BIOL 1110 AND 1210
Life Sciences 11 or Biology 11	Below 67%	BIOL 0500
IF YOU NEED		
Life Sciences 11 or Biology 11		BIOL 0500
Chemistry 11		CHEM 0500
CHEMISTRY		
IF YOU TOOK	YOUR GRADE	CHOOSE
Chemistry 11 AND Pre-Calculus 12	67% or higher (recommended)	CHEM 1500 AND 1510
Chemistry 12 AND Pre-Calculus 12	73% or higher (recommended)	CHEM 1500 AND 1520
IF YOU NEED		
Chemistry 11		CHEM 0500
Chemistry 12		CHEM 0600
Pre-Calculus 12		SEE MATH SECTION BELOW
PHYSICS		
IF YOU TOOK	YOUR GRADE	CHOOSE
Physics 11 AND Pre-Calculus 12	67% or higher	PHYS 1100 AND 1200
Physics 12 AND Pre-Calculus 12	67% or higher	PHYS 1150 AND 1250
Physics 11	Below 67%	PHYS 0500
IF YOU NEED		
Physics 11		PHYS 0500
Physics 12		PHYS 0600
Pre-Calculus 12		SEE MATH SECTION BELOW

MATH – EVERY SCIENCE MAJOR REQUIRES 6 CREDITS OF FIRST-YEAR CALCULUS

IF YOU TOOK	YOUR GRADE		CHOOSE
Pre-Calculus 12	67% or higher (within the last 2 years)	➡	One of the following streams: MATH 1140 AND 1240 MATH 1150 AND 1250
Pre-Calculus 12	Below 67% (within the last 2 years)	➡	MATH 1000 or 0630 or 0600 + 0610
Foundations 12	All grades	➡	MATH 0510 + MATH 0600 + MATH 0610

MATH 1140/1240 is recommended for all Science Majors
MATH 1150/1250 is recommended for all Biology Majors

PLEASE NOTE: For all high school courses with no required grade listed, 67% or higher is highly recommended.

For best chances of academic success, completion of the grade 12 level of the subject area of your intended concentrations is recommended. (e.g. for a Physics concentration, you should have Grade 12 Physics). High school equivalent courses can be taken or repeated at TRU.

COURSE OFFERINGS – 1000/2000 level

Note: Many science and math courses are offered in Fall **or** Winter semester only.

FALL SEMESTER ONLY	WINTER SEMESTER ONLY
BIOL 1210	BIOL 1110
BIOL 2160	BIOL 2130
BIOL 2170	BIOL 2340
BIOL 2280	BIOL 2290
CHEM 1500	CHEM 1510 or 1520
CHEM 2100	CHEM 2220
CHEM 2120	CHEM 2250
CHEM 2160	CMNS 2300
GEOLOG 2070	GEOLOG 2100
MATH 1150	MATH 1220
MATH 2110	MATH 1250
MATH 2210	MATH 2200
MATH 2240	MATH 2700
PHYS 1150	PHYS 1250
PHYS 2000	PHYS 2200
	PHYS 2590

IMPORTANT: The General Science program requires careful planning. Students must ensure that during their second year they complete the prerequisites for the upper-level (3000 and 4000 level course.)

Bachelor Of Science GENERAL SCIENCE - 2 CONCENTRATIONS (120 credits)

FIRST YEAR REQUIREMENTS (21-24 credits)			SECOND YEAR REQUIREMENTS			THIRD/FOURTH YEAR REQUIREMENTS (48 credits)			
COURSE	GRADE	1000/2000 Science course prerequisites (27 credits)			CHOOSE 2 SCIENCE CONCENTRATIONS				
ENGL 1100 or 1110 ^{1,2}			COURSE		GRADE	SCIENCE CONCENTRATION 1 (18 credits)			
OR any two of ENGL 1100, 1110, 1120, 1140 and 1210 ^{1,2}			1000/2000 level Science			COURSE		GRADE	
			1000/2000 level Science			3000/4000 concentration 1			
CHEM 1500 - Chemical Bonding/Organic Chem			1000/2000 level Science			3000/4000 concentration 1			
PHYS 1100 or 1150			1000/2000 level Science			3000/4000 concentration 1			
MATH 1140 (or 1150) -Calculus 1			1000/2000 level Science			3000/4000 concentration 1			
MATH 1240 (or 1250) -Calculus 2			1000/2000 level Science			3000/4000 concentration 1			
1 of BIOL 1110, 1210, GEOL 1110 or 2050			1000/2000 level Science			3000/4000 concentration 1			
			1000/2000 level Science			3000/4000 concentration 1			
COMP 3 credits ^{1,4}			CMNS 2290 or 2300			SCIENCE CONCENTRATION 2: (18 credits)			
<ul style="list-style-type: none"> ❖ The General Science program requires careful planning. Students must ensure that during their second year they complete the prerequisites for the upper-level (3000- and 4000-level) courses. ❖ Completion of 18 upper-level credits in each of two areas (chosen from biology, chemistry, computing science, geology, mathematics and statistics, physics). This alternative is particularly recommended for students planning to qualify to teach in BC secondary schools. <p>Notes:</p> <ol style="list-style-type: none"> 1. Must be taken prior to third-year. 2. Students with a B or higher in ENGL 1100 or 1110 may complete the remaining 3-credits in any discipline outside of science. 3. Non-Science electives must be in at least two different subject areas (other than English). 4. The 3 credits of COMP: suggest: 3 of COMP 1020, 1030, 1050, 1070, 1080, 1150 OR COMP 1110 OR COMP 1130. 	GENERAL ELECTIVES (21-24 credits)					3000/4000 concentration 2			
				Non-science elective ³			3000/4000 concentration 2		
				Non-science elective ³			3000/4000 concentration 2		
				Non-science elective ³			3000/4000 concentration 2		
				Elective in lieu of 2 nd ENGL ²			3000/4000 concentration 2		
				General elective (1000-4000 level)			3000/4000 concentration 2		
				General elective (1000-4000 level)			3000/4000 concentration 2		
				General elective (1000-4000 level)			3000/4000 Level Electives (12 credits)		
				General elective (1000-4000 level)			3000/4000 level Elective		
				Electives:			3000/4000 level Elective		
			Institutional Learning Outcomes (ILOs) may be required to graduate. Refer to the Degree Works website for more information.			3000/4000 level Elective			
						3000/4000 level Elective			
						3000/4000 level Elective			

***NEW Institutional Learning Outcomes (ILO) Requirements – your [Degree Works Program Plan](#) is available through [myTRU](#)**

KEEP IN MIND

This form is meant to be used as a guideline in conjunction with the [TRU Academic Calendar](#) and [Course Schedule](#). Please see these resources for more about course prerequisites and co-requisites.

Course Load: Transitioning to university can be challenging and many students choose to take a lighter course load. Please speak with Academic Advising to discuss sequencing, workload, future career, and educational goals and more.

Bachelor Of Science GENERAL SCIENCE - 3 CONCENTRATIONS (120 credits)

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FIRST YEAR REQUIREMENTS (21-24credits)			SECOND YEAR REQUIREMENTS			3000/4000-Level (48 credits)			
COURSE		GRADE	1000/2000 Science course prerequisites (27 credits)			CHOOSE 3 SCIENCE CONCENTRATIONS			
ENGL 1100 or 1110 ^{1,2}			COURSE		GRADE	SCIENCE CONCENTRATION 1: (18 credits)			
1000 level ENGL ^{1,2}			1000/2000 level Science						
CHEM 1500			1000/2000 level Science			COURSE		GRADE	
PHYS 1100 or 1150			1000/2000 level Science			3000/4000 concentration 1			
MATH 1140 (or 1150) - Calculus 1			1000/2000 level Science			3000/4000 concentration 1			
MATH 1240 (or 1250) - Calculus 2			1000/2000 level Science			3000/4000 concentration 1			
1 of BIOL 1110, 1210, GEOL 1110 or 2050			1000/2000 level Science			3000/4000 concentration 1			
			1000/2000 level Science			3000/4000 concentration 1			
COMP 3 credits ^{1,4}			1000/2000 level Science			3000/4000 concentration 1			
<p>❖ The General Science program requires careful planning. Students must ensure that during their second year they complete the prerequisites for the upper-level (3000- and 4000-level) courses.</p> <p>❖ 3 Science concentrations requires: 18 (3000/4000 level) credits in one concentration and 6 (3000/4000 level) credits in the other 2 concentrations.</p> <p>Notes:</p> <p>1. Must be taken prior to third-year.</p> <p>2. Students with a B or higher in ENGL 1100 or 1110 may complete the remaining 3-credits in any discipline outside of science.</p> <p>3. Non-Science electives must be in at least two different subject areas (other than English).</p> <p>4. The 3 credits of COMP: suggest: 3 of COMP 1020, 1030, 1050, 1070, 1080, 1150 OR COMP 1110 OR COMP 1130.</p>			CMNS 2290 or 2300			SCIENCE CONCENTRATION 2: (6 credits)			
	ELECTIVES (21-24 credits)								
				Non-science elective ³			3000/4000 concentration 2		
				Non-science elective ³			3000/4000 concentration 2		
				Non-science elective ³			SCIENCE CONCENTRATION 3: (6 credits)		
				Elective in lieu of 2 nd ENGL ²					
				General elective (1000-4000 level)			3000/4000 concentration 3		
				General elective (1000-4000 level)			3000/4000 concentration 3		
				General elective (1000-4000 level)			3000/4000 Level Electives (18 credits)		
				General elective (1000-4000 level)			3000/4000 level Elective		
			Electives:			3000/4000 level Elective			
			Institutional Learning Outcomes (ILOs) may be required to graduate. Refer to the Degree Works website for more information.			3000/4000 level Elective			
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Institutional Learning Outcomes (ILOs):

May be required for your program. Using the **Degree Works** planning tool will help you identify which courses apply.

Degree Works Planning Tool:

More information is available through the Degree Works website at: tru.ca/current/academic-supports/degreeworks

BACHELOR OF SCIENCE – FIRST- AND SECOND-YEAR NON-SCIENCE ELECTIVES

Anthropology (ANTH)	All	Linguistics (LING)	All
Archaeology (ARCH)	All	Management (MNGT)	1710
Accounting (ACCT)	2210, 2250	Marketing (MKTG)	2430
Business Law (BLAW)	2910	Modern Languages (MLAN)	All
Chinese (CHIN)	1110, 1210	Music (MUSI)	All
Communications (CMNS)	All	Organizational Behaviour (ORGB)	2810
Creative Writing (CRWR)	All	Philosophy (PHIL)	All
Economics (ECON)	All	Physical Education (PHED) non-Activity	1000, 1230, 2110, 2130, 2140, 2210
French (FRAN)	All	Political Studies (POLI)	All
Film (FILM)	All	Psychology (PSYC)	All
Finance (FNCE)	2120	Service & Community Learning (SRCL)	1000
First Nation Language (FNLG)	All	Sociology (SOCL)	All
Geography (GEOG) (non-physical)	1010, 1100, 1110, 2110, 2120, 2220, 2230 (excluded: GEOG 1000, 2020)	Spanish (SPAN)	All
German (GERM)	All	Speech (SPEE)	1500, 2500
History (HIST)	All 1000 level & 2000 level	Student Success (STSS)	1010, 1020
Human Resource Management (HRMN)	2820	Theatre (THTR)	All
Indigenous Studies (INDG)	2100	Visual Arts (VISA) (Theory)	All
Japanese (JAPA)	All	Visual Arts (VISA) (Studio)	All
Journalism (JOUR)	2010		