

**FIRST YEAR SCIENCE – MAJOR OPTIONS**

ENGLISH		
IF YOU TOOK	YOUR GRADE	CHOOSE
English Studies 12 <b>or</b> English First Peoples 12 <b>or</b> ESAL 0570 <b>and</b> 0580 <b>or</b> ENGL 0600 <b>or</b> ENGL 0620	73% or higher	 ENGL 1100 (recommended) <b>or</b> ENGL 1110 <b>or</b> ENGL 1120 <b>or</b> ENGL 1140 <b>or</b> 1150 <b>or</b> ENGL 1210
English Studies 12 <b>or</b> English First Peoples 12	Below 73%	
BIOLOGY		
IF YOU TOOK	YOUR GRADE	CHOOSE
Life Sciences 11 <b>or</b> Biology 11 <b>or</b> Anatomy & Physiology 12 <b>or</b> Biology 12 <b>AND</b> Chemistry 11	67% or higher	 BIOL 1110 <b>AND</b> 1210
Life Sciences 11 <b>or</b> Biology 11	Below 67%	 BIOL 0500
<b>IF YOU NEED</b>		
Life Sciences 11 <b>or</b> Biology 11		 BIOL 0500
Chemistry 11		 CHEM 0500
CHEMISTRY		
IF YOU TOOK	YOUR GRADE	CHOOSE
Chemistry 11 <b>AND</b> Pre-Calculus 12	67% or higher (recommended)	 CHEM 1500 <b>AND</b> 1510
Chemistry 12 <b>AND</b> Pre-Calculus 12	73% or higher (recommended)	 CHEM 1500 <b>AND</b> 1520
<b>IF YOU NEED</b>		
Chemistry 11		 CHEM 0500
Chemistry 12		 CHEM 0600
Pre-Calculus 12		 <b>SEE MATH SECTION BELOW</b>
PHYSICS		
IF YOU TOOK	YOUR GRADE	CHOOSE
Physics 11 <b>AND</b> Pre-Calculus 12	67% or higher	 PHYS 1100 <b>AND</b> 1200
Physics 12 <b>AND</b> Pre-Calculus 12	67% or higher	 PHYS 1150 <b>AND</b> 1250
Physics 11	Below 67%	 PHYS 0500
<b>IF YOU NEED</b>		
Physics 11		 PHYS 0500
Physics 12		 PHYS 0600
Pre-Calculus 12		 <b>SEE MATH SECTION BELOW</b>

**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 <b>or</b> 0630 <b>or</b> 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 major is recommended. (e.g. for a Physics major, you should have Grade 12 Physics). High school equivalent courses can be taken or repeated at TRU.

**BIOLOGY Major**

FALL SEMESTER	WINTER SEMESTER
ENGL 1100 <b>or</b> 1110 MATH 1140 <b>or</b> 1150 BIOL 1210 CHEM 1500 PHYS 1100 (or 1150)	ENGL 1100 <b>or</b> 1110 <b>or</b> 1120 <b>or</b> 1140 <b>or</b> 1150 <b>or</b> 1210 MATH 1240 <b>or</b> 1250 BIOL 1110 CHEM 1510 <b>or</b> 1520 PHYS 1200 (or 1250)

**PLEASE NOTE**

For the BIOL majors, students with 80% or higher in Grade 12 Physics may opt to take an alternate course instead of PHYS 1250. PHYS 1150 would be required.

**Please speak to an Academic Advisor before opting out of a course as this may affect future academic and career goals.**

**CHEMISTRY Major**

FALL SEMESTER	WINTER SEMESTER
ENGL 1100 <b>or</b> 1110 MATH 1140 <b>or</b> 1150 COMP (3 credits) – see note CHEM 1500 PHYS 1100 (or 1150)	ENGL 1100 <b>or</b> 1110 <b>or</b> 1120 <b>or</b> 1140 <b>or</b> 1210 MATH 1240 <b>or</b> 1250 BIOL 1110 CHEM 1520 (or 1510) PHYS 1200 (or 1250)

**PLEASE NOTE**

The 3 credits of COMP may be COMP 1020/1030 and one other 1-credit COMP **or** COMP 1110 **or** COMP 1130

**COMPUTING Major or MATHEMATICS Major or DATA SCIENCE Major**

FALL SEMESTER	WINTER SEMESTER
ENGL 1100 <b>or</b> 1110 MATH 1140 COMP 1130 CHEM 1500 PHYS 1100 (or 1150)	ENGL 1100 <b>or</b> 1110 <b>or</b> 1120 <b>or</b> 1140 <b>or</b> 1210 MATH 1240 COMP 1230 MATH 1700 <b>or</b> 1220 BIOL 1110 <b>or</b> GEOL 1110 <b>or</b> STAT 2000 <b>or</b> non-science elective

**PLEASE NOTE**

Students in the Computing or Data Science majors should choose MATH 1700. Math majors may take either MATH 1700 or 1220.

## PHYSICS Major

### FALL SEMESTER

ENGL 1100 or 1110  
 PHYS 1150 (or 1100)  
 MATH 1140  
 CHEM 1500  
 COMP 1130 (or non-Science Elective)

### WINTER SEMESTER

ENGL 1100 or 1110 or 1120 or 1140 or 1210  
 PHYS 1250 (or 1200)  
 MATH 1240  
 CHEM 1510 or 1520  
 BIOL 1110 or GEOL 1110

### KEEP IN MIND

**Course Sequencing:** These course sequences are a guideline. Please speak to an Academic Advisor for more detailed course planning if required.

**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 and workload.

**Resources:** More about the program requirements at [tru.ca/current/enrolment-services/calendar.html](http://tru.ca/current/enrolment-services/calendar.html). More about course prerequisites, co-requisites and course times at: [tru.ca/current/enrolment-services/course-schedule.html](http://tru.ca/current/enrolment-services/course-schedule.html)

## 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		