



**GUIDELINES FOR
BACHELOR OF SCIENCE
ANIMAL BIOLOGY MAJOR**

HIGH SCHOOL PREREQUISITES

ENGLISH

IF YOU TOOK	YOUR GRADE		CHOOSE
English Studies 12 or English First Peoples 12 or	73% or higher	}	ENGL 1100 (recommended) or ENGL 1110 or ENGL 1120 or ENGL 1140 or 1150 or ENGL 1210
ESAL 0570 and 0580 or ENGL 0600 or ENGL 0620	65% or higher		
English Studies 12 or English First Peoples 12	Below 73%	→	ACCUPLACER Assessment or ENGL 0600 or 0620

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 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.

SUGGESTED FIRST- AND SECOND-YEAR PLAN

YEAR 1

FALL SEMESTER	WINTER SEMESTER
ENGL 1100 or 1110	ENGL 1100 or 1110 or 1120 or 1140 or *1150 or 1210 (see note #2 next page: CMNS 2290 or 2300 or non-Science elective)
BIOL 1210	BIOL 1110
CHEM 1500	CHEM 1510 or 1520
MATH 1150 (preferred) or 1140	MATH 1250 (preferred) or 1240
PHYS 1100 or 1150	PHYS 1200 or 1250 (see note #3 next page)

YEAR 2

FALL SEMESTER	WINTER SEMESTER
CHEM 2120	CHEM 2220
BIOL 2160	BIOL 2290 (important)
BIOL 2170	BIOL 2130
BIOL 2280	BIOL 2340
COMP (3 credits) (see note #5 next page) or Non-Science Elective	Non-Science Elective

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 2120	CHEM 2220
MATH 1150	MATH 1250
PHYS 1150	PHYS 1250

Bachelor Of Science Degree – ANIMAL BIOLOGY MAJOR Checksheet (120 credits)

1000-Level CORE courses (30-33 credits)			2000-Level CORE courses (24 credits)			3000/4000-Level ANBI courses				
COURSE		GRADE	COURSE		GRADE	3000/4000 CORE Courses (24 credits)		GRADE		
ENGL 1100 or 1110 ^{1,2}		_____	BIOL 2130 - Cell Biology		_____	BIOL 3000 - Biometrics		_____		
ENGL 1100, 1110, 1120, 1140, 1150, 1210 ^{1,2}		_____	BIOL 2340 - Introduction to Genetics		_____	BIOL 3030 - Population Biology		_____		
			BIOL 2160 - Introductory Microbiology		_____	BIOL 3130 - Introduction to Biochemistry		_____		
BIOL 1110 - Principles of Biology 1		_____	BIOL 2170 - Introduction to Ecology		_____	BIOL 3350 - Molecular Genetics		_____		
BIOL 1210 - Principles of Biology 2		_____	BIOL 2280 - Evolution & Ecology of Land Plants		_____	BIOL 3540 - Human Physiology 1		_____		
CHEM 1500 - Chemical Bonding/Organic Chemistry		_____	BIOL 2290 - Evolution of Animal Body Plans		_____	BIOL 3550 - Human Physiology 2		_____		
CHEM 1510 or 1520		_____	CHEM 2120 - Organic Chemistry 1		_____	BIOL 3400 - Reading and Writing Great Biology		_____		
MATH 1140 (or 1150) -Calculus 1		_____	CHEM 2220 - Organic Chemistry 2		_____	BIOL 4130 or 4140 - Evolution		_____		
MATH 1240 (or 1250) -Calculus 2		_____	ELECTIVES (21-24 credits)			Animal Biology electives (18 credits)				
PHYS 1100 or 1150 ³		_____	Non-Science elective ⁴		_____	ANBI elective		_____		
PHYS 1200 or 1250 ³		_____	Non-Science elective ⁴		_____	ANBI elective		_____		
COMP 3 credits ^{1,5}		_____	Non-Science elective ⁴		_____	ANBI elective		_____		
Notes: 1. Must be taken prior to 3 rd year 2. Students with a B or better in ENGL 1100 or 1110 need only take 3 credits of ENGL. The remaining 3 credits may be taken in any discipline outside science. CMNS 2300 is recommended. (*English 1150 may not be suitable for professional programs. Please consult your Advisor) 3. Students with 80% or higher in Grade 12 Physics may opt to take an alternate course instead of PHYS 1250. <u>PHYS 1150 would be required.</u> 4. Non-Science electives must be in at least two different subject areas (other than English). 5. The 3 credits of COMP may be COMP 1020/1030/and one other 1-credit COMP <u>OR</u> COMP 1110 <u>OR</u> COMP 1130.			Elective in lieu of 2nd ENGL ²		_____	ANBI elective		_____		
			General elective (1000-4000 level)		_____	ANBI elective		_____		
			Upper-level elective		_____	ANBI elective		_____		
			Upper-level elective		_____	ANBI electives: BIOL 3100, BIOL 3110, BIOL 3200, BIOL 3220, BIOL 3310, BIOL 4090, BIOL 4100, BIOL 4160 or NRSC 4040, BIOL 4270 or NRSC 3000, BIOL 4480, BIOL 4490, NRSC 3170, NRSC 3260, NRSC 3210, NRSC 4020, NRSC 4050, NRSC 4100				
			Upper-level elective		_____					
						Electives: Institutional Learning Outcomes (ILOs) may be required to graduate. Refer to the Degree Works website for more information. The Animal Biology Honours program requires completion of 126 credits: 117 credits as above (minus 3 credits of upper-level electives) plus BIOL 3980 and BIOL 4980 (3 credits) and BIOL 4990 (Honours Thesis; 6 credits)			Honours Courses	
BIOL 3980 - Intro to Research		_____								
BIOL 4980 - Honours Seminar		_____								
BIOL 4990 - Honours Thesis		_____								

***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.

KEEP IN MIND

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		