

Academic Advising T: 250-828-5075 | F: 250-371-5960

E: advising@tru.ca W: tru.ca/advising BACHELOR OF SCIENCE (ECOLOGY & ENVIRONMENTAL BIOLOGY MAJOR) CHECKLIST

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
ESAL 0570 <u>and</u> 0580 or	65% or higher	ENGL 1120 or ENGL 1140 or 1150 or ENGL 1210
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)	\longrightarrow	MATH 1000 or 0630 or 0600 + 0610		
Foundations 12	All grades	\longrightarrow	MATH 0510 + MATH 0600 + MATH 0610		
	is recommended for all Science Majors 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 2170 (important)	BIOL 2130
BIOL 2280 (important)	BIOL 2340
BIOL 2160	BIOL 2290
COMP - 3 credits (see note #4 next page) or Non-Science Elective	Non-Science Elective

COURSE OFFERINGS – 1000/2000 level			
Note: Many science and math courses	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 1100		
	PHYS 1200		
	PHYS 1250		

		OGY & ENVIRONMENTAL BIC		,	
1000-Level CORE courses (30-33 o		2000-Level CORE courses (24 credit		3000/4000-Level (42 credits)	
COURSE	GRADE	COURSE	GRADE	COURSE	GRADE
ENGL 1100 or 1110 ^{1, 2}		BIOL 2130 - Cell Biology		BIOL 3000 - Biometrics	
ENGL 1100, 1110, 1120, 1140, 1210		BIOL 2340 - Introduction to Genetics		BIOL 3030 - Population Biology	
or CRWR 1150/ENGL 1150 ^{1, 2}		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 3400 - Reading and Writing Great Biology	
CHEM 1500 - Chemical Bonding/Organic Chem	n	BIOL 2290 - Evolution of Animal Body Plans		1 of BIOL 4120, 4130 or 4140	
CHEM 1510 or1520		CHEM 2120 - Organic Chemistry 1		PHYSIOLOGY STEAM & BIOLOGY Electives	(Choose 1)
MATH 1140 (or 1150) -Calculus 1		CHEM 2220 - Organic Chemistry 2		Plant/Cell/Human Physiology & Ecology (24	credits)
MATH 1240 (or 1250) -Calculus 2		ELECTIVES (21-24 credits)		Choose 2 of BIOL 3510, 3520,	
PHYS 1100 or 1150 ³		Non-science elective ⁵		3540 or 3550	
PHYS 1200 or 1250 ³		Non-science elective ⁵		EEBI elective ⁶	
COMP 3 credits 1,4		Non-science elective ⁵		EEBI elective ⁶	
Notes:		Elective in lieu of 2 nd ENGL ²		EEBI elective ⁶	
1. Must be taken prior to third year.	1110	General elective (1000-4000 level)		EEBI elective ⁶	
2. Students with a B or better in ENGL 1100 or 1 take 3 credits of ENGL. The remaining 3 cred		3000/4000 elective		EEBI elective ⁶	
in any discipline outside science. CMNS 2300		3000/4000 elective		EEBI elective ⁶	
recommended. (*English 1150 may not be su professional programs. Please consult your A		3000/4000 elective		OR Microbial Physiology & Ecology Electives (24 o	redits)
3. Students with a grade of 80% or better in Phy	sics 12 only need	Electives: Institutional Learning Outcomes (ILOs) may be required to		1 of BIOL 3510, 3520, 3540, 3550	
to complete PHYS 1150 (3 credits). The remaining be taken in any subject area.	aining 3 credits			BIOL 4110 - Advanced Microbiology Lab	
4. The 3 credits of COMP may be COMP 1020/7	1030/and one			BIOL 4210 - Microbial Physiology	
 other 1-credit COMP OR COMP 1110 OR COMP 1130. 5. Non-Science electives must be in at least two different subject areas (other than English). 6. Ecology & Environmental Biology (EEBI) Electives: BIOL 3010, BIOL 3100, BIOL 3110, BIOL 3200, BIOL 3210, BIOL 3220, BIOL 3260, BIOL 3290, BIOL 3430, BIOL 4020, BIOL 4090, BIOL 4100, BIOL 4120, BIOL 4140, BIOL 4160 or NRSC 4040, BIOL 4260, 		graduate. Refer to the <u>Degree Works website</u> for more information.		EEBI elective ⁶	
				EEBI elective ⁶	
		The Feelegy and Environmental Biology Hangura	orogram	EEBI elective ⁶	
		.		EEBI elective ⁶	
BIOL 4270 or NRSC 3000, BIOL 4480, BIOL 44	490, NRSC 3110,	(3 credits) and BIOL 4990 (Honours Thesis; 6 cred	ITS).	Honours Courses	
NRSC 3210, NRSC 4020, NRSC 4050, NRSC 4				BIOL 3980 – Intro to Research	
				BIOL 4980 - Honours Seminar	
				BIOL 4990 - Honours Thesis	
*NEW Institution	nal Learning Out	comes (ILO) Requirements – your <u>Degree Wor</u>	ks Program I	Plan is available through myTRU	

KEEP IN MIND

This form is meant to be used as a guideline in conjunction with the <u>TRU Academic Calendar</u> and <u>Course Schedule</u>. 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.

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

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 (SOCI)	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		