

Name:	TRU#
Advisor:	Date:
Major: BIOLOGY	Minor:

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

1000-Level CORE courses (30-33 credits)		2000-Level CORE courses (24 credits)		3000/4000-Level BIOL Major courses (36 credits)	
COURSE	GRADE	COURSE	GRADE	Course	GRADE
ENGL 1100 or 1110 <sup>2</sup>		BIOL 2130 - Cell Biology		BIOL 3000 - Biometrics	
ENGL 1100, 1110, 1120, 1140, 1150, 1210 <sup>1,2</sup>		BIOL 2340 - Introduction to Genetics		BIOL 3030 - Population Biology	
BIOL 1110 - Principles of Biology 1		BIOL 2160 - Introductory Microbiology		BIOL 3130 - Introduction to Biochemistry	
BIOL 1210 - Principles of Biology 2		BIOL 2170 - Introduction to Ecology		BIOL 3350 – Molecular Genetics	
CHEM 1500 - Chemical Bonding/Organic Chem		BIOL 2280 - Evolution & Ecology of Land Plants		BIOL 3400 - Reading and Writing Great Biology	
CHEM 1510 or 1520		BIOL 2290 - Evolution of Animal Body Plans		BIOL 4120, 4130 or 4140	
MATH 1140 (or 1150) - Calculus 1		CHEM 2120 - Organic Chemistry 1		<b>PHYSIOLOGY STREAM &amp; BIOLOGY ELECTIVES (18 credits)</b> Select ONE set of courses from below	
MATH 1240 (or 1250) - Calculus 2		CHEM 2220 - Organic Chemistry 2		<b>ELECTIVES (27-30 credits)</b>	
PHYS 1100 or 1150 <sup>3</sup>		<b>COURSE</b>		<b>GRADE</b>	
PHYS 1200 or 1250 <sup>3</sup>		Non-Science elective <sup>4</sup>		2 of BIOL 3510, 3520, 3540 or 3550	
COMP 3 credits <sup>1,5</sup>		Non-Science elective <sup>4</sup>		BIOL elective <sup>6</sup>	
<b>Notes:</b> 1. Must be taken prior to 3rd 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. PHYS 1150 would be required. 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 OR COMP 1110 OR COMP 1130. 6. <b>BIOL Electives:</b> BIOL 3010, BIOL 3100, BIOL 3110, BIOL 3200, BIOL 3210, BIOL 3220, BIOL 3230, BIOL 3260, BIOL 3290, BIOL 3310, BIOL 3430, BIOL 3510, BIOL 3520, BIOL 3540, BIOL 3550, BIOL 3800, BIOL 4020, BIOL 4090, BIOL 4100, BIOL 4110, BIOL 4120, BIOL 4130, BIOL 4140, BIOL 4150, BIOL 4160 or NRSC 4040, BIOL 4210, BIOL 4250, BIOL 4260, BIOL 4270 or NRSC 3000, BIOL 4350, BIOL 4480, BIOL 4490, BIOL 4600, NRSC 3110, NRSC 3210, NRSC 4020, NRSC 4050, NRSC 4100, NRSC 4130		Non-Science elective <sup>4</sup>		BIOL elective <sup>6</sup>	
		Elective in lieu of 2 <sup>nd</sup> ENGL <sup>2</sup>		BIOL elective <sup>6</sup>	
		Other elective		BIOL elective <sup>6</sup>	
		3000/4000 level elective		<b>OR Microbial Physiology &amp; Biology Electives (18 credits)</b>	
		3000/4000 level elective		BIOL 4110 - Advanced Microbiol	
		3000/4000 level elective		BIOL 4210 - Microbial Physiology	
		3000/4000 level elective		BIOL 3510, 3520, 3540 or 3550	
		3000/4000 level elective		BIOL elective <sup>6</sup>	
		The <b>Biology Honours program</b> 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).		BIOL elective <sup>6</sup>	
				BIOL elective <sup>6</sup>	
	<b>Honours Courses</b>				
	BIOL 3980 - Intro to Research				
			BIOL 4980 - Honours Seminar		
			BIOL 4990 - Honours Thesis		

### KEEP IN MIND

**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:** See the current [Academic Calendar](#) for more about the program requirements. Find more in the [Course Schedule](#) about course prerequisites, co-requisites and course times.

## 1<sup>st</sup> and 2<sup>nd</sup> Year Science COURSE SEQUENCE

FALL SEMESTER ONLY	WINTER SEMESTER ONLY
BIOL 1110	BIOL 1210
BIOL 2160	BIOL 2130
BIOL 2170	BIOL 2340
BIOL 2280	BIOL 2290
CHEM 1500	CHEM 1510 <b>or</b> 1520
CHEM 2120	CHEM 2220
MATH 1140	MATH 1140
MATH 1150	MATH 1250
MATH 1240	MATH 1240
PHYS 1100 <b>or</b> 1150	PHYS 1200 <b>or</b> 1250

## INSTITUTIONAL LEARNING OUTCOMES

To graduate from a TRU Bachelor degree, students may be required to satisfy 8 Institutional Learning Outcomes (ILO) plus a Capstone course. (27 credits).

To find out if these requirements apply to you, please refer to DegreeWorks (available through [myTRU](#)) or contact your Program Advisor for more information.

If you are required to satisfy the ILO's, you must have courses that meet the following requirements:

- 1 course for each of the eight Institutional learning outcomes
- Of those 8 courses, a minimum of 4 (1 in each theme) must be outside the discipline.
- Of those 8 courses, one must also be designated as high impact.
- You must also complete the Capstone course in the final 30 credits of your study.

	Institutional Learning Outcome	Course	Inside or Outside?	High Impact?
Connection	Communication			
	Teamwork			
Engagement	Lifelong Learning			
	Social Responsibility			
Exploration	Knowledge			
	Critical Thinking			
Local-to-Global	Indigenous Knowledges & Ways			
	Intercultural Awareness			
	Capstone			

### How do I search for an ILO course?

Visit the [course schedule](#) and select a term. On the following screen, click the Attribute box and select an ILO.