THOMPSON RIVERS UNIVERSITY

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Name:	TRU#			
Advisor:	Date:			
Major: CMMB MAJOR	Minor:			

Bachelor Of Science CELLULAR, MOLECULAR & MICROBIAL BIOLOGY (CMMB) MAJOR Checksheet (120 credits)

1000-Level CORE courses (33 credits)			2000-Level CORE courses (24 credits)			3000/4000-Level (42 credits)		
COURSE GRAE		GRADE	COURSE		GRADE	COURSE		GRADE
ENGL 1100 or 1110 ^{1,2}			BIOL 2130 - Cell Biology			BIOL 3000 - Biometrics		
ENGL 1100 ,1110, 1120,			BIOL 2340 - Introduction to Genetics			BIOL 3130 - Introduction to Biochemistry		
1140, 1150, 1210 ^{-1, 2}			BIOL 2160 - Introductory Micro	obiology		BIOL 3230 - 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 3520 - Cell Physiology		
CHEM 1500 - Chemical Bonding/Organic Chem.			BIOL 2290 - Evolution of Animal Body Plans			BIOL 3210 - Microbial Ecology		
CHEM 1510 or1520			CHEM 2120 - Organic Chemistry 1		BIOL 3400 - Reading and Writing Great Biology			
MATH 1140 (or 1150) - Calculus 1			CHEM 2220 - Organic Chemistry 2			BIOL 4110 - Advanced Microbiology Lab		
MATH 1240 (or 1250) - Calculus 2			ELECTIVES (21 credits)			BIOL 4210 - Microbial Physiology		
PHYS 1100 or 1150 ³			Non-science elective ⁴			BIOL 4130 - Molecular Evo	olution	
PHYS 1200 or 1250 ³			Non-science elective ⁴			BIOL 4250 - Biochemical Techniques 2		
COMP 3 credits ¹			Non-science elective ⁴			BIOL 4350 - Regulation of Gene Expression		
 Notes: Must be taken prior to third year. 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 		Elective in lieu of 2 nd ENGL ²			CMMB Electives - Choose 2 from (6 credits): BIOL 3010, BIOL 3200, BIOL 3310, BIOL 3510, BIOL 3544			
		Other elective						
			3000/4000 elective			3550, BIOL 3800, BIOL 4150, BIOL 4480, BIOL 4		, BIOL 4600
			3000/4000 elective			CMMB elective		
	recommended. (*English 1150 may not be suitable for		3000/4000 elective			CMMB elective		
	professional programs. Please consult your Advisor.)		CMMB Honours Program: Requires completion of 126 credits:		Honours Courses			
3. Students with a grade of 80% or better in Physics 12 only need to complete PHYS 1150 (3 credits). The remaining 3			117 credits as above (minus 3 credits of upper-level electives) plus BIOL 3980 and BIOL 4980 (3 credits) and BIOL 4990		BIOL 3980 – Intro to Research			
	credits may be taken in any subject area.		(Honours Thesis; 6 credits).		BIOL 4980 – Honours Seminar			
 Non-Science electives must be in at least two different subject areas (other than English). 				BIOL 4990 – honours Thesis				
						1		

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 <u>Academic Calendar</u> for more about the program requirements. Find more in the <u>Course Schedule</u> about course prerequisites, co-requisites and course times.

1 st and 2 nd 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 or 1520					
CHEM 2120	CHEM 2220					
MATH 1140	MATH 1140					
MATH 1150	MATH 1250					
MATH 1240	MATH 1240					
PHYS 1100 or 1150	PHYS 1200 or 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 <u>myTRU</u>) 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.