

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

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

1000-Level CORE courses (30-33 credits)		2000-Level CORE courses (27 credits)		3000/4000-Level courses (39-41 credits)		
COURSE	GRADE	COURSE	GRADE	COURSE	GRADE	
ENGL 1100 or 1110 ^{1,2}		BIOL 2130 - Cell Biology		CHEM 3100 - Instrumental Analysis		
ENGL 1100, 1110, 1120, 1140 or 1210 ^{1,2}		BIOL 2340 - Introduction to Genetics		CHEM 3170 - Instrumental Analysis Laboratory (1 cr)		
BIOL 1110 - Principles of Biology 1		BIOL 2160 - Introductory Microbiology		CHEM 3220 - Advanced Organic Chemistry		
BIOL 1210 - Principles of Biology 2		CHEM 2100 - Introductory Analytical Chem		CHEM 3230 – Organic Spectroscopy		
CHEM 1500 - Chemical Bonding/Organic Chem		CHEM 2120 - Organic Chemistry 1		CHEM 3240 - Organic Chemistry Laboratory (1 cr)		
CHEM 1510 or 1520		CHEM 2220 - Organic Chemistry 2		CHEM 4450 - Advanced Chemical Biology		
MATH 1140 (or 1150) - Calculus 1		CHEM 2160 Structure, Bonding & Spectroscopy		BIOL 3000 - Biometrics		
MATH 1240 (or 1250) - Calculus 2		CHEM 2250 - Fundamentals of Physical Chemistry		BIOL 3130 - Introduction to Biochemistry		
PHYS 1100 or 1150		CMNS 2290 or 2300		BIOL 3230 - Biochemistry		
PHYS 1200 or 1250		Electives (21-24 credits)		BIOL 3350 - Molecular Genetics		
COMP 3 credits ^{1,4}			COURSE	BIOL 3520 - Cell Physiology		
Notes: 1. Must be taken prior to 3 rd year 2. Students with a B or better in ENGL 1100 (or 1110) may proceed to either of the required CMNS courses (CMNS 2290 or 2300) in their second-year; students with less than a B in first-year English courses must take another 3 credits of first-year English (ENGL 1120, 1140 or 1210) before their second-year English requirement. 3. Non-Science electives must be in at least two different subject areas (other than English). 4. 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.		Non-Science elective ³		BIOL 4150 - Biochemical Techniques 1		
		Non-Science elective ³		BIOL 4250 - Biochemical Techniques 2		
		Non-Science elective ³		Chemical Biology Electives: (4 - 6 credits) from: CHEM 3060, CHEM 3140, CHEM 3310, CHEM 3330L, CHEM 4220, CHEM 4320, CHEM 4400L, CHEM 4420L, CHEM 4480, CHEM 4600, BIOL 3010, BIOL 3200, BIOL 3510, BIOL 3540, BIOL 3550, BIOL 4350, BIOL 4480, BIOL 4490, PHIL 4330, PHIL 4350		
		Elective in lieu of 2 nd ENGL ²				
		Other elective				
		Upper-level elective				
		Upper-level elective			CHEM BIOL elective	
		Upper-level elective			CHEM BIOL elective	
					CHEM BIOL elective	
			The Chemical Biology Honours program requires the completion of 126 credits, including the 117 credits required for a as well as CHBI 3980-1 (Introduction to Research), CHBI 4980-2 (Honours Seminar) and CHBI 4990-6 (Honours Thesis). Students must apply for admission to the Honours program at the end of their third year.		Honours Courses	
		CHBI 3980 – Introduction to Research				
		CHBI 4980 – Honours Seminar				
		CHBI 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.

1st and 2nd 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 2000	CHEM 2220
CHEM 2100	CHEM 2250
CHEM 2120	
CHEM 2160	
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 [myTRU](#)) or contact your Program Advisor for more information.

If you are required to satisfy the ILOs, 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.