



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

Bachelor Of Science CHEMISTRY MAJOR Checksheet (120 credits)

1000-Level CORE courses (27-30 credits)		2000-Level CORE courses (24 credits)		3000/4000-Level (39 credits)	
COURSE	GRADE	COURSE	GRADE	COURSE	GRADE
ENGL 1100 or 1110 ^{1,2}		CHEM 2120 - Organic Chemistry 1		CHEM 3060 - Physical Chemistry 1	
ENGL 1100, 1110, 1140 or 1210 ^{1,2}		CHEM 2220 - Organic Chemistry 2		CHEM 3070 - Physical Chemistry 2	
		CHEM 2100 - Introductory Analytical Chemistry		CHEM 3080 - Physical Chemistry Laboratory (1 cr)	
CHEM 1500 - Chemical Bonding/Organic Chem		CHEM 2160 Structure, Bonding & Spectroscopy		CHEM 3100 ⁵ - Instrumental Analysis	
CHEM 1510 or 1520		CHEM 2250 - Fundamentals of Physical		CHEM 3120 ⁵ - Instrumental Analysis Lab (1 cr)	
BIOL 1110 ¹ - Principles of Biology 1		MATH 2110 – Calculus 3		CHEM 3140 - Applied Analytical Chemistry	
MATH 1140 (or 1150) - Calculus 1		MATH 2120 – Linear Algebra		CHEM 3220 - Advanced Organic Chemistry	
MATH 1240 (or 1250) - Calculus 2		CMNS 2290 or 2300 ^{1,2}		CHEM 3230 - Organic Spectroscopy	
PHYS 1100 or 1150		ELECTIVES (27-30 credits)		CHEM 3240 - Organic Chemistry Laboratory (1 cr)	
PHYS 1200 or 1250		COURSE	GRADE	CHEM 3310 - Inorganic Chemistry 1	
COMP 3 credits ^{1,4}		Non-science elective ³		CHEM 3320 - Inorganic Chemistry 2	
Notes: 1. Must be taken prior to third-year. 2. Students with a grade of B or better in ENGL 1100 (or 1110) may proceed to either of the required CMNS 2290 or 2300 in their second year. Students with less than a B grade in their first year English course are required to take another 3 credits of first year English (1110, ENGL 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: suggest: 3 of COMP 1020, 1030, 1050, 1070, 1080, 1150 OR COMP 1110 OR COMP 1130. 5. These 3000 level courses must be taken in the fall semester of third year. 6. CHEM 4600 is offered in winter semester of alternate "odd" years. 7. CHEM 4220 and CHEM 4320 are offered in winter semester of "even" years. 8. CHEM 3730 is equivalent to BIOL 3130. CHEM 3730 is required.		Non-science elective ³		CHEM 3330 - Inorganic Chemistry Laboratory (1 cr)	
		Non-science elective ³		CHEM 3730 ⁸ - Introduction to Biochemistry	
		Elective in lieu of 2 nd ENGL ²		CHEM 4400 - Advanced Analytical Chem Lab (1 cr)	
		Elective		1 of CHEM 4070, 4090, 4220 ⁷ , 4320 ⁷ or 4600	
		Elective		1 of CHEM 4410L, 4420L or 4430L	
		3000/4000 level elective		1 of CHEM 3010, 3020, 3030, 4070, 4090, 4220 ⁷ , 4320 ⁷ , 4480 or 4600 ⁶	
		3000/4000 level elective			
		3000/4000 level elective			

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
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
MATH 2110	
MATH 2120	MATH 2120
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 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.