

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

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

1000-Level CORE courses (27-30 credits)		2000-Level CORE courses (18 credits)		3000/4000-Level Major courses (30 credits)		
COURSE	GRADE	COURSE	GRADE	COURSE	GRADE	
ENGL 1100 or 1110 <sup>1</sup>		MATH 2700 - Discrete Mathematics 2		MATH 3070 or 3220		
ENGL 1100, 1110, 1120, 1140 or 1210 <sup>1</sup>		MATH 2110 - Calculus 3		MATH 3000 or 3200		
MATH 1140 – Calculus 1		MATH 2120 - Linear Algebra		<b>MATH electives (15 credits) from:</b> MATH 3000, 3020, 3030, 3070, 3080, 3120, 3160, 3170, 3200, 3220, 3400, 3510, 3650, 3700, 4410, 4420, 4430		
MATH 1240 – Calculus 2		MATH 2200 - Introduction to Analysis				
CHEM 1500 – Chemical bonding & organic Chem		MATH 2240 or STAT 2000		MATH elective		
COMP 1130 - Computer Programming 1		<b>ELECTIVES (42-45 credits)</b>		MATH elective		
COMP 1230 - Computer Programming 2		<b>COURSE</b>	<b>GRADE</b>	MATH elective		
PHYS 1100 or 1150 – Fund. Of Physics		Non-Science elective <sup>2</sup>		MATH elective		
MATH 1700 or 1220		Non-Science elective <sup>2</sup>		MATH elective		
1 of BIOL 1110 or 1210 or GEOL 1110 or 2050		Non-Science elective <sup>2</sup>		<b>COMP/STATS/MATH electives (9 credits) from:</b> COMP 3050, COMP 3110, COMP 3120, COMP 3130, COMP 3270, COMP 3410, COMP 3510, COMP 3520, COMP 3540, COMP 3610, COMP 3710, COMP 4110, COMP 4120, COMP 4230, COMP 4240, COMP 4320, COMP 4340, COMP 4510, COMP 4610, COMP 4620, COMP 4740, COMP 4750, COMP 4830, COMP 4980		
		Elective in lieu of 2 <sup>nd</sup> ENGL <sup>1</sup>				
<b>Notes:</b> 1. Students with a B or better in ENGL 1100 or 1110 may proceed into CMNS 2290 or 2300 in their second year; students with less than a B in first year English must take another 3 credits of 1000-level English before their second year CMNS requirement. 2. Electives must include 9-12 credits in at least two disciplines outside of science (other than English). The remaining elective credits may be chosen from any discipline; 18 of these must be in courses numbered 3000 or higher. For Honours students, 12 credits of electives must be numbered 3000 or higher. 3. Students interested in pursuing COMP 3000- or 4000 level courses must first complete COMP 2130/2230.		Elective		MATH 3000, MATH 3020, MATH 3030, MATH 3070, MATH 3080, MATH 3120, MATH 3160, MATH 3170, MATH 3200, MATH 3220, MATH 3400, MATH 3510, MATH 3650, MATH 3700, MATH 4410, MATH 4420, MATH 4430  STAT 3050, STAT 3060, STAT 4040 <b>**no more than 6 of these 9 may be COMP</b>		
		Elective				
		Elective				
		Elective				
		3000/40000 elective				
		3000/40000 elective				
		3000/40000 elective				
	3000/40000 elective		MATH, STAT, or COMP			
	3000/40000 elective			MATH, STAT, or COMP		
	3000/40000 elective			MATH, STAT, or COMP		
<b>BSc Honours in Mathematics</b> students are required to complete 126 credits, maintain an overall GPA of 3.0, as well as a GPA of 3.0 in 3 <sup>rd</sup> and 4 <sup>th</sup> year, with no individual course below a B- grade. Must include MATH 3000, MATH 3070, MATH 3200, MATH 3220 & MATH 4950				<b>Honours in Mathematics</b>		
				MATH 4950 – 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
CHEM 1500	CHEM 1510 or 1520
CHEM 2120	CHEM 2220
COMP 1130	COMP 1130
COMP 1230	COMP 1230
All 2000 level COMP	All 2000 level COMP
MATH 1140	MATH 1140
MATH 1240	MATH 1240
MATH 1700	MATH 1700
MATH 2120	MATH 2120
MATH 2110	
MATH 2700	
STAT 2000	
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.