



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

## Bachelor Of Science MATHEMATICS & ECONOMICS MAJOR Checksheet (120 credits)

1000-Level CORE courses (30-33 credits)		2000-Level CORE courses (24 credits)		3000/4000-Level (30 credits)	
COURSE	GRADE	COURSE	GRADE	COURSE	GRADE
ENGL 1100 or 1110 <sup>1</sup>		MATH 2110 - Calculus 3		ECON 3200 - Introduction to Mathematical Econ	
ENGL 1110, 1120, 1140 or 1210 <sup>1</sup>		MATH 2120 - Linear Algebra 1		ECON 3900 - Intermediate Microeconomics 2	
CHEM 1500 - Chem Bonding/Organic Chem		MATH 2240 - Differential Equations 1		ECON 3950 - Intermediate Macroeconomics 2	
PHYS 1100 or 1150		MATH 2700 - Discrete Mathematics 2		ECON 4320 - Econometrics	
ECON 1900 – Principles of Microeconomics		ECON 2320 or STAT 2000		ECON 4330 - Forecasting in Business & Economics	
ECON 1950 – Principles of Macroeconomics		ECON 2900 - Intermediate Microeconomics 1		<b>Choose ONE of 3 STREAMS (15 credits)</b>	
MATH 1140 - Calculus 1		ECON 2950 - Intermediate Macroeconomics 1		<b>MATHEMATICS STREAM</b>	
MATH 1240 - Calculus 2		CMNS 2290 or 2300 <sup>1</sup>		STAT 3060 - Applied Regression Analysis	
MATH 1700 or 1220		<b>ELECTIVES (33-36 credits)</b>		MATH 3160 - Differential Equations 2	
1 of BIOL 1110, 1210, GEOL 1110 or 2050		<b>COURSE</b>	<b>GRADE</b>	MATH 3400 - Introduction to Linear Programming	
		Non-science elective (not ECON)		MATH 4410 - Modelling of Discrete Optimization	
COMP 1130 - Computer Programming 1		Elective in lieu of 2 <sup>nd</sup> ENGL <sup>2</sup>		3000/4000 Level MATH Elective	
<b>Notes:</b> 1. Students with a B or higher 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. At least 24 credits of electives must be science courses (BIOL, CHEM, GEOL, COMP SCI, MATH or PHYS) and 18 credits must be Upper Level. Remaining electives can be from any academic area.		Elective <sup>3</sup>		<b>OR STATISTICS STREAM</b>	
		Elective <sup>3</sup>		MATH 3020 - Introduction to Probability	
		Elective <sup>3</sup>		MATH 3030 - Introduction to Stochastic Processes	
		Elective <sup>3</sup>		STAT 3050 - Introduction to Statistical Inference	
		3000/4000 level elective <sup>3</sup>		STAT 3060 - Applied Regression Analysis	
		3000/4000 level elective <sup>3</sup>		STAT 4040 - Analysis of Variance	
		3000/4000 level elective <sup>3</sup>		<b>OR GENERAL STREAM</b>	
		3000/4000 level elective <sup>3</sup>		STAT 3060 - Applied Regression Analysis	
		3000/4000 level elective <sup>3</sup>		4 of MATH 3020, 3030, 3160, 3400, 4410, STAT 3050 or 4040 or other 3000/4000 level MATH	

### 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
ECON 1900, 1950 and 2320	ECON 1900, 1950 and 2320
ECON 2950	ECON 2900
MATH 1140	MATH 1140
MATH 1150	MATH 1250
MATH 1240	MATH 1240
MATH 1700	MATH 1700
MATH 2120	MATH 2120
MATH 2110	MATH 2240
MATH 2700	
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.