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GUIDELINES FOR BACHELOR OF SCIENCE DATA SCIENCE MAJOR

HIGH SCHOOL PREREQUISITES

ENGLISH			
IF YOU TOOK	YOUR GRADE		CHOOSE
English Studies 12 or English First Peoples 12 or	73% or higher		ENGL 1100 (recommended) or ENGL 1110 or
ESAL 0570 and 0580 or	65% or higher		ENGL 1120 or ENGL 1140 or 1150 or ENGL 1210
ENGL 0600 or ENGL 0620	65% or higher		
English Studies 12 or English First Peoples 12	Below 73%	→	ACCUPLACER Assessment or ENGL 0600 or 0620
BIOLOGY			
IF YOU TOOK	YOUR GRADE		CHOOSE
Life Sciences 11 or Biology 11 or Anatomy & Physiology 12 or Biology 12 AND Chemistry 11	67% or higher		BIOL 1110 AND 1210
Life Sciences 11 or Biology 11	Below 67%	\longrightarrow	BIOL 0500
IF YOU NEED			
Life Sciences 11 or Biology 11		\longrightarrow	BIOL 0500
Chemistry 11		\longrightarrow	CHEM 0500
CHEMISTRY			
IF YOU TOOK	YOUR GRADE		CHOOSE
Chemistry 11 AND Pre-Calculus 12	67% or higher (recommended)	\longrightarrow	CHEM 1500 AND 1510
Chemistry 12 AND Pre-Calculus 12	73% or higher (recommended)	\longrightarrow	CHEM 1500 AND 1520
IF YOU NEED			
Chemistry 11		\longrightarrow	CHEM 0500
Chemistry 12		\longrightarrow	CHEM 0600
Pre-Calculus 12		\longrightarrow	SEE MATH SECTION BELOW
PHYSICS			
IF YOU TOOK	YOUR GRADE		CHOOSE
Physics 11 AND Pre-Calculus 12	67% or higher	\longrightarrow	PHYS 1100 AND 1200
Physics 12 AND Pre-Calculus 12	67% or higher	\longrightarrow	PHYS 1150 AND 1250
Physics 11	Below 67%	\longrightarrow	PHYS 0500
IF YOU NEED			
Physics 11		\longrightarrow	PHYS 0500
Physics 12		\longrightarrow	PHYS 0600
Pre-Calculus 12		\longrightarrow	SEE MATH SECTION BELOW

MATH — EVERY SCIENCE MAJOR REQUIRES 6 CREDITS OF FIRST-YEAR CALCULUS						
IF YOU TOOK	YOU TOOK YOUR GRADE CHOOSE					
Pre-Calculus 12	67% or higher (within the last 2 years)	→	One of the following streams: MATH 1140 AND 1240 MATH 1150 AND 1250			
Pre-Calculus 12	Below 67% (within the last 2 years)	\longrightarrow	MATH 1000 or 0630 or 0600 + 0610			
Foundations 12	All grades	\longrightarrow	MATH 0510 + MATH 0600 + MATH 0610			
MATH 1140/1240 is recommended for all Science Majors MATH 1150/1250 is recommended for all Biology Majors						

PLEASE NOTE: For all high school courses with no required grade listed, 67% or higher is highly recommended.

For best chances of academic success, completion of the grade 12 level of the subject area of your intended major is recommended. (e.g. for a Physics major, you should have Grade 12 Physics). High school equivalent courses can be taken or repeated at TRU.

SUGGESTED FIRST- AND SECOND-YEAR PLAN

YEAR 1	
FALL SEMESTER	WINTER SEMESTER
ENGL 1100 or 1110	ENGL 1100 or 1110 or 1120 or 1140 or 1210
MATH 1140	MATH 1240
CHEM 1500	MATH 1700 (or 1220)
COMP 1130	COMP 1230
COMP 1110	BIOL 1110 or GEOL 1110 (see important notes)
YEAR 2	
FALL SEMESTER	WINTER SEMESTER
MATH 2110	MATH 2120
COMP 2920	STAT 2000
PHYS 1100 or 1150	COMP 2230
COMP 2160 or 2680	CMNS 2300 or 2290
Non-Science Elective	Non-Science Elective

IMPORTANT NOTE

❖ 3 credits must be taken from the following: BIOL 1110 or BIOL 1210 or GEOL 1110 or GEOL 2050

COURSE OFFERINGS - 1000/2000 level					
FALL SEMESTER ONLY	WINTER SEMESTER ONLY				
CHEM 1500	BIOL 1110				
PHYS 1150	CMNS 2300				
BIOL 1210					
MATH 2110					

Name/T-ID:		
Name/ 1-10	 	

COURSE GRADE COURSE GRADE COURSE GRADE COURSE GRADE GRADE GRADE GOURSE GRADE GRADE GOURSE GRADE GRADE GOURSE GOURSE GRADE GOURSE GOURSE GOURSE GRADE GOURSE GOU	Bachelor Of Science DATA SCIENCE MAJOR Checksheet (120 credits)							
ENGL 1100 or 1110 1 COMP 2230 – Data Structures, Algorithm Analysis COMP 3050 - Algorithm Design and Analysis COMP 2100 or 2680 COMP 3050 - Algorithm Design and Analysis COMP 1110 - Intro to Computer Programming MATH 2110 – Calculus 3 COMP 3050 - Human-Computer Interaction Design COMP 1130 - Computer Programming MATH 2110 – Calculus 3 COMP 3520 – Software Engineering COMP 1130 - Computer Programming 1 MATH 2120 - Linear Algebra 1 COMP 3610 - Database Systems COMP 1230 – Computer Programming 2 STAT 2000 - Introduction to Statistics COMP 3710 - Applied Artificial Intelligence MATH 1140 – Calculus 1 COMP 3610 - Database Systems COMP 3710 - Applied Artificial Intelligence MATH 1140 – Calculus 2 Electives 1000-4000 level (21-24 credits) COMP 4910 – Computing Science Project COMP 4910 – Computing Science Project COMP 4910 – Computing Science Project COMP 4910 or 1220 COMP 4930 – Professional & Ethical Issues Non-science elective 2 Sound-4000 level (21-24 credits) COMP 4930 – Professional & Ethical Issues Non-science elective 2 MATH 3000 - Introduction to Probability Phys 1100 or 1150 Non-science elective 2 MATH 3020 - Introduction to Probability Phys 1100 or 1150 Non-science elective 2 MATH 3030 - Introduction to Statistical Inference Notes: 1 of BIOL 1110 or 1210 or GEOL Elective in lieu of 2nd ENGL 12 Sound-4000 level) STAT 3000 - Applied Regression Analysis Ceneral elective (1000-4000 level) STAT 3000 - Applied Regression Analysis Ceneral elective (1000-4000 level) STAT 3000 - Analysis of Variance sounds of science inclusion. • Alterea State than 5 ceneral elective credits in subt. English). The remaining elective credits may be chosen from any disciplines outside of science in courses other than science or inclision. • Alterea State of the science of inclision. • Alterea State of the science	1000-Level CORE courses (30-33 credits)		2000-Level CORE courses (21 credits)		3000/4000-Level CORE courses (45 credits)			
ENGL 1100 ,1110 ,1120 ,1140 or 1210 1 COMP 2920 - Software Architecture and Design	COURSE GRA		GRADE	COURSE GRADE		3000/4000 Level COMP requirements (21 credits)		
COMP 2160 or 2680 COMP 3450 – Human-Computer Interaction Design COMP 1110 – Intro to Computer Programming MATH 2110 – Calculus 3 COMP 3520 – Software Engineering COMP 1330 - Computer Programming 1 MATH 2120 - Linear Algebra 1 COMP 3610 - Database Systems COMP 3710 - Applied Artificial Intelligence MATH 1140 – Calculus 1 COMP 3710 - Applied Artificial Intelligence MATH 1140 – Calculus 2 MATH 1240 – Calculus 2 MATH 1240 – Calculus 2 MATH 1240 – Calculus 2 MATH 1250 — Computing Science Project MATH 1260 – Computing Science Project MATH 12700 or 1220 Non-science elective 2 MATH 1300 – Chemical Bonding & Organic Chem Non-science elective 2 MATH 3020 - Introduction to Probability PHYS 1100 or 1150 Non-science elective 2 MATH 3030 - Introduction to Stochastic Processes Block 1110 or 210 or GEOL 1110 or 210 or GEOL 1110 or 210 or GEOL 1. Students with a 8 or better in ENGL 1100 or 1110 may proceed directly into CNMS 2290 or 2300 in their second year, without completing an additional 3 credits in ENGL These students will be required to take 12 credits of non-science elective rather than 9 or credits. 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. 3000/4000 Level MATH/COMP/STAT 3 3000/4000 MATH/COMP/STAT 3	ENGL 1100 or 1110 ¹			COMP 2230 - Data Structures, Algo	orithm Analysis		COURSE	GRADE
COMP 1110 – Intro to Computer Programming MATH 2110 – Calculus 3 COMP 3520 – Software Engineering COMP 1130 - Computer Programming 1 MATH 2120 - Linear Algebra 1 COMP 3610 - Database Systems COMP 1230 – Computer Programming 2 STAT 2000 - Introduction to Statistics COMP 3710 - Applied Artificial Intelligence COMP 1230 – Computing Science Project COMP 4910 – Computing Science Project COMP 4910 – Computing Science Project COMP 4910 – Computing Science Project COMP 4930 – Professional & Ethical Issues COMP 4930 – Professional & Ethi	ENGL 1100 ,1110, 1120, 1140 or			COMP 2920 - Software Architecture	and Design		COMP 3050 - Algorithm Design and Analysis	
COMP 1130 - Computer Programming 1 MATH 2120 - Linear Algebra 1 COMP 3610 - Database Systems COMP 1230 - Computer Programming 2 STAT 2000 - Introduction to Statistics COMP 3710 - Applied Artificial Intelligence MATH 1140 - Calculus 1 CMNS 2290 or 2300 ³ COMP 4910 - Computing Science Project COMP 4910 - Computing Science Project COMP 4930 - Professional & Ethical Issues MATH 1700 or 1220 Non-science elective ² MATH 1700 or 1150 CHEM 1500 - Chemical Bonding & Organic Chem PHYS 1100 or 1150 Non-science elective ² I of BIOL 1110 or 1210 or GEOL 1110 or 2050 Notes: 1. Students with a B or better in ENGL 1100 or 1110 may proceed directly into CMNS 2290 or 2300 in their second year, without completing an additional 3 credits in ENGL. These students will be required to take 12 credits of non-science electives rather than 9 credits. 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. At least 3 credits must be in upour-level MATH/COMP/STAT 3 3000/4000 MATH/COMP/STAT 3	1210 ¹			COMP 2160 or 2680			COMP 3450 – Human-Computer Interaction Design	
COMP 1230 - Computer Programming 2 MATH 1140 - Calculus 1 MATH 1240 - Calculus 2 MATH 1700 or 1220 MATH 1700 or 1220 CHEM 1500 - Chemical Bonding & Organic Chem PHYS 1100 or 1150 Rohn-science elective 2 Non-science elective 2 MATH 3030 - Introduction to Probability PHYS 1100 or 1150 Non-science elective 2 MATH 3030 - Introduction to Stochastic Processes 1 of BIOL 1110 or 1210 or GEOL 1110 or 2050 Notes: 1. Students with a B or better in ENGL 1100 or 1110 may proceed directly into CMNS 2290 or 2300 in their second year, without completing an additional 3 credits in ENGL. These students will be required to take 12 credits of non-science elective rather than 9 credits. 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. 4. Electives must be in courses other than science or English. • The remaining elective credits must be in courses other than science or English. • At least 9 credits must be in poursers of the many of scipline. • At least 9 credits must be upper-level MATH/COMP/STAT. Institutional Learning Outcomes (ILOs) may be required to graduate.	COMP 1110 – Intro to Computer Pro	gramming		MATH 2110 - Calculus 3			COMP 3520 - Software Engineering	
MATH 1140 - Calculus 1 CMNS 2290 or 2300 ¹ COMP 4910 - Computing Science Project MATH 1240 - Calculus 2 Electives 1000-4000 level (21-24 credits) COMP 4930 - Professional & Ethical Issues MATH 1700 or 1220 Non-science elective ² S000/4000 Level MATH requirements (6 credits) CHEM 1500 - Chemical Bonding & Organic Chem Non-science elective ² MATH 3020 - Introduction to Probability PHYS 1100 or 1150 Non-science elective ² MATH 3030 - Introduction to Stochastic Processes Introduction to Stochastic Processes Elective in lieu of 2 nd ENGL 1.2 General elective (1000-4000 level) STAT 3050 - Introduction to Statistical Inference STAT 3050 - Introduction to Statistical Inference General elective (1000-4000 level) STAT 3050 - Introduction to Statistical Inference General elective (1000-4000 level) STAT 3060 - Applied Regression Analysis General elective (1000-4000 level) STAT 4040 - Analysis of Variance 3000/4000 Level MATH/COMP/STAT 3 3000/4000 Level MATH/COMP/STAT 3 3000/4000 MATH/COMP/STAT 3	COMP 1130 - Computer Programmin	ıg 1		MATH 2120 - Linear Algebra 1			COMP 3610 - Database Systems	
MATH 1240 - Calculus 2 MATH 1700 or 1220 Non-science elective 2 Non-science elective 2 MATH 300 - Chemical Bonding & Organic Chem Non-science elective 2 Non-science elective 2 MATH 3020 - Introduction to Probability Non-science elective 2 MATH 3030 - Introduction to Stochastic Processes 1 of BIOL 1110 or 1210 or GEOL 1110 or 2050 Notes: 1. Students with a B or better in ENGL 1100 or 1110 may proceed directly into CMNS 2290 or 2300 in their second year, without completing an additional 3 credits in ENGL. These students will be required to take 12 credits of non-science electives rather than 9 credits. 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. **Electives must include 9-12 credits must be in courses other than science or English. **The remaining elective credits must be chosen from any discipline. **At least 3 credits must be in courses numbered 3000 or higher. **At least 3 credits must be in courses numbered 3000 or higher. **At least 3 credits must be in courses numbered 3000 or higher. **At least 9 credits must be in courses numbered 3000 or higher. **At least 9 credits must be in courses numbered 3000 or higher. **At least 9 credits must be in courses numbered 3000 or higher. **At least 9 credits must be in courses numbered 3000 or higher. **At least 9 credits must be in courses numbered 3000 or higher. **At least 9 credits must be in courses numbered 3000 or higher. **At least 9 credits must be in courses numbered 3000 or higher. **At least 9 credits must be in courses numbered 3000 or higher. **At least 9 credits must be in courses numbered 3000 or higher. **At least 9 credits must be in courses numbered 3000 or higher. **At least 9 credits must be in courses numbered 3000 or higher. **At least 9 credits must be in courses numbered 3000 or higher. **At least 9 credits must be in courses numbered 3000 or higher. **At least 9 credits must be in co	COMP 1230 – Computer Programmi	ng 2		STAT 2000 - Introduction to Statisti	cs		COMP 3710 - Applied Artificial Intelligence	
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CHEM 1500 – Chemical Bonding & Organic Chem Non-science elective 2. PHYS 1100 or 1150 Non-science elective 2. 1 of BIOL 1110 or 1210 or GEOL 1110 or 2050 Notes: 1. Students with a B or better in ENGL 1100 or 1110 may proceed directly into CMNS 2290 or 2300 in their second year, without completing an additional 3 credits in ENGL. These students will be required to take 12 credits of science (other than English). The remaining elective credits may be chosen from any discipline. Seneral Electives: 2. Electives must include 9-12 credits in at least two disciplines outside of science in courses other than science or English. • The remaining elective credits must be in courses other than science or English. • The remaining elective redits must be in courses other than science or English. • At least 3 credits must be upper-level MATH/COMP/STAT. Institutional Learning Outcomes (ILOs) may be required to graduate.	MATH 1240 – Calculus 2			Electives 1000-4000 leve	el (21-24 credits)		COMP 4930 – Professional & Ethical Issues	
PHYS 1100 or 1150 Non-science elective ²⁻ 1 of BIOL 1110 or 1210 or GEOL 1110 or 2050 Notes: 1. Students with a B or better in ENGL 1100 or 1110 may proceed directly into CMNS 2290 or 2300 in their second year, without completing an additional 3 credits in ENGL. These students will be required to take 12 credits of non-science electives rather than 9 credits. 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. At least 3 credits must be in courses other than science or English. • At least 3 credits must be in courses numbered 3000 or higher. • At least 9 credits must be upper-level MATH/COMP/STAT. Institutional Learning Outcomes (ILOs) may be required to graduate.	MATH 1700 or 1220			Non-science elective ^{2,}			3000/4000 Level MATH requirements (6 credit	ts)
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Notes: 1. Students with a B or better in ENGL 1100 or 1110 may proceed directly into CMNS 2290 or 2300 in their second year, without completing an additional 3 credits in ENGL. These students will be required to take 12 credits of non-science electives rather than 9 credits. 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. 4. Electives must include 9-12 credits may be chosen from any discipline. 5. TAT 3050 - Introduction to Statistical Inference STAT 3060 - Applied Regression Analysis STAT 4040 - Analysis of Variance 3000/4000 Level MATH/COMP/STAT Electives (9 credits and the second year). 5. Electives must include 9-12 credits in at least two disciplines outside of science in courses other than science or English. 5. The remaining elective credits may be chosen from any discipline. 6. At least 9 credits must be upper-level MATH/COMP/STAT. Institutional Learning Outcomes (ILOs) may be required to graduate.	PHYS 1100 or 1150			Non-science elective ^{2,}			MATH 3030 - Introduction to Stochastic Processes	
Notes: 1. Students with a B or better in ENGL 1100 or 1110 may proceed directly into CMNS 2290 or 2300 in their second year, without completing an additional 3 credits in ENGL. These students will be required to take 12 credits of non-science electives rather than 9 credits. 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. STAT 3050 - Applied Regression Analysis General elective (1000-4000 level) STAT 3060 - Applied Regression Analysis STAT 4040 - Analysis of Variance 3000/4000 Level MATH/COMP/STAT Electives (9 credit and the section of science in courses other than science or English). The remaining elective credits may be chosen from any discipline. At least 3 credits must be in courses numbered 3000 or higher. At least 9 credits must be upper-level MATH/COMP/STAT. Institutional Learning Outcomes (ILOs) may be required to graduate.				Elective in lieu of 2 nd ENGL ^{1,2,}			3000/4000 Level STAT requirements (9 credit	ts)
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directly into CMNS 2290 or 2300 in their second year, without completing an additional 3 credits in ENGL. These students will be required to take 12 credits of non-science electives rather than 9 credits. 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. STAT 4040 - Analysis of Variance 3000/4000 Level MATH/COMP/STAT Electives (9 credit 3000/4000 MATH/COMP/STAT 3 2000/4000 MATH	1. Students with a B or better in ENGL 1100 or 1110 may proceed		and	General elective (1000-4000 level)			STAT 3060 – Applied Regression Analysis	
required to take 12 credits of non-science electives rather than 9 credits. 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. Su00/4000 Level MATH/COMP/STAT 3 3000/4000 MATH/COMP/STAT 3 3000/4			ut	General elective (1000-4000 level)			STAT 4040 - Analysis of Variance	
credits. 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. Seneral Electives: Electives must include 9-12 credits in at least two disciplines outside of science in courses other than science or English. The remaining elective credits may be chosen from any discipline. At least 3 credits must be in courses numbered 3000 or higher. At least 9 credits must be upper-level MATH/COMP/STAT. Institutional Learning Outcomes (ILOs) may be required to graduate.				3000/4000-level elective			3000/4000 Level MATH/COMP/STAT Electives (9	credits)
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. ■ Electives must include 9-12 credits in at least two disciplines outside of science in courses other than science or English. ■ The remaining elective credits may be chosen from any discipline. ■ At least 3 credits must be in courses numbered 3000 or higher. ■ At least 9 credits must be upper-level MATH/COMP/STAT. Institutional Learning Outcomes (ILOs) may be required to graduate.				General Flectives		3000/4000 MATH/COMP/STAT 3		
chosen from any discipline. The remaining elective credits may be chosen from any discipline. At least 3 credits must be in courses numbered 3000 or higher. At least 9 credits must be upper-level MATH/COMP/STAT. Institutional Learning Outcomes (ILOs) may be required to graduate.	of science (other than English). The remaining elective credits may be		s outside	 Electives must include 9-12 credits in at least two disciplines outside of science in courses other than science or English. The remaining elective credits may be chosen from any discipline. At least 3 credits must be in courses numbered 3000 or higher. At least 9 credits must be upper-level MATH/COMP/STAT. 		3000/4000 MATH/COMP/STAT 3		
 At least 3 credits must be in courses numbered 3000 or higher. At least 9 credits must be upper-level MATH/COMP/STAT. Institutional Learning Outcomes (ILOs) may be required to graduate.			ts may be			3000/4000 MATH/COMP/STAT ³		

*NEW Institutional Learning Outcomes (ILO) Requirements – your Degree Works Program Plan is available through myTRU

KEEP IN MIND

This form is meant to be used as a guideline in conjunction with the <u>TRU Academic Calendar</u> and <u>Course Schedule</u>. Please see these resources for more about course prerequisites and co-requisites.

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, workload, future career and educational goals and more.

KEEP IN MIND

Institutional Learning Outcomes (ILOs):

May be required for your program. Using the **Degree Works** planning tool will help you identify which courses apply.

Degree Works Planning Tool:

More information is available through the Degree Works website at: tru.ca/current/academic-supports/degreeworks

BACHELOR OF SCIENCE - FIL	RST- AND SECOND-YE	EAR NON-SCIENCE ELECTIVES	
Anthropology (ANTH)	All	Linguistics (LING)	All
Archaeology (ARCH)	All	Management (MNGT)	1710
Accounting (ACCT)	2210, 2250	Marketing (MKTG)	2430
Business Law (BLAW)	2910	Modern Languages (MLAN)	All
Chinese (CHIN)	1110, 1210	Music (MUSI)	All
Communications (CMNS)	All	Organizational Behaviour (ORGB)	2810
Creative Writing (CRWR)	All	Philosophy (PHIL)	All
Economics (ECON)	All	Physical Education (PHED) non-Activity	1000, 1230, 2110, 2130, 2140, 2210
French (FRAN)	All	Political Studies (POLI)	All
Film (FILM)	All	Psychology (PSYC)	All
Finance (FNCE)	2120	Service & Community Learning (SRCL)	1000
First Nation Language (FNLG)	All	Sociology (SOCI)	All
Geography (GEOG) (non-physical)	1010, 1100, 1110, 2110, 2120, 2220, 2230 (excluded: GEOG 1000, 2020)	Spanish (SPAN)	All
German (GERM)	All	Speech (SPEE)	1500, 2500
History (HIST)	All 1000 level & 2000 level	Student Success (STSS)	1010, 1020
Human Resource Management (HRMN)	2820	Theatre (THTR)	All
Indigenous Studies (INDG)	2100	Visual Arts (VISA) (Theory)	All
Japanese (JAPA)	All	Visual Arts (VISA) (Studio)	All