B.Sc. Honours Computer Science

Students are reminded that admission to honours is by application to the Department, after completing second-year (CMPT214, 215, 260, 270, and 280) with a 70% CWA overall and in CMPT courses. Admission to CMPT400 will be refused to students who are not admitted to honours.

C1. College Requirement (15cu)

	6cu from English Langua	6cu from English Language Writing	
	Indigenous Learning	Indigenous Learning	
MATH 163	Mathematical Reasoning	Occasitativa December	Y1
MATH 164	Linear Algebra	Quantitative Reasoning	Y1

C2. Breadth Requirement (9cu)

3cu from Humanities or Social Science	
6cu from Fine Arts, Humanities, Social Science, or	
Interdisciplinary Studies	

Refer to the programme description for the full list of courses that fulfill C1 and C2 requirements.

C3. Cognate Requirement (12cu)

	9 cu from Junior *	
PHIL 232 (or GE 449)	Ethics in Computer Science	Y2

Junior: Biology: BIOL 120, 121; Chemistry: CHEM 112, 115, 250;

Earth Sciences: GEOG 120, GEOL 121, 122;

Physics&Astronomy: ASTR 113; PHYS 115, 117 or 125.

No more than 6 credit units from one subject may be used in C1, C2, and C3 Junior.

C5. Electives Requirement (21cu)

	Business Science***	
	Courses to complete the requirements for 120cu Four- year program, of which at least 66 must be at the 200- level or higher.	

C4. Majors Requirement (63cu)

CMPT 141 (or 116)	Introduction to Computer Science		Y1
CMPT 145 (or 117)	Principles of Computer Science		Y1
CMPT 214	Programming Principles and Practice		Y2
CMPT 215 (or CME 331)	Computer Organization and Architecture		Y2
CMPT 260	Mathematical Logic and Computing		Y2
CMPT 270	Developing Object Oriented Systems		Y2
CMPT 280	Intermediate Data Structures		Y2
CMPT 3			Y3/4
CMPT 3		18cu from Core CMPT :	Y3/4
CMPT 3		CMPT 317, 332, 340, CMPT 360 is required	Y3/4
CMPT 360	Algorithm Design		Y3/4
CMPT 3		CMPT 353, 370, 381	Y3/4
CMPT 3			Y3/4
CMPT 364	Automata and Formal Languages		Y3/4
CMPT 400	Honours Thesis (must apply to register)		Y3/4
	6cu from CMPT 410 or higher		Y3/4
and at most 1 of CME433, 435, 451		35, 451	Y3/4
MATH 110 (or 133 or 176)	Calculus 1*	Mathamatica	Y1
MATH 116 (or 134 or 177)	Calculus 2	Mathematics	Y1
STAT 241	Probability Theory	Statistics	Y2
STAT 242 (or 245)	Statistics** (or EE216 or ME 251)	Staustics	Y2

Mathematics Note: * Students with credit in other <u>Junior MATH</u> (MATH104, 121, 125) must complete MATH110 (or 176) and will lose credit for that previous Junior MATH. Contact the Math department for an override into MATH110.

Statistics Note:** Alternative STAT coursework (PLSC214 or PSY233+234 or COMM104+207 [c.f. Statistics Course Regulations]) with a grade of 70% or higher may be used But the substituted courses will not grant admission to CMPT394, 423, or 489.

Business If ECON 111 or 114 is used to meet C2, the slot becomes a free elective.

Science Otherwise, the slot is a Business Science Requirement from the following list:

Note:***

Commerce: COMM 102, 105, 201, 203, 204, 205, 210, 304;

Economics: ECON 111, 114;
Agricultural Economics: AREC 230;

Entrepreneurial Ventures: ENT 210, 220, 230.