

B.Sc. Honours Computer Science

C1. College Requirement (15cu)

	6cu from English Language Writing		Y1
			Y1
	Indigenous Learning		
MATH 110 (or 176)	Calculus I	Quantitative Reasoning	Y1
MATH 116 (or 177)	Calculus II		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 (18cu)

	9 cu from Junior*		
MATH 164 (or 266)	Linear Algebra	9 cu Senior	
STAT 241	Probability Theory		
STAT 242 (or 245)	<i>Statistics*</i>		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.

Statistics Note: Engineering students may use EE 216 or ME 251.

Also consult Statistics Course Regulations in [the College policies](#).

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

C4. Majors Requirement (54cu)

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
PHIL 232	Ethics ... in Computer Science	Y2
CMPT 360	Machines and Algorithms	Y3/4
CMPT 364	Automata and Formal Languages	Y3/4
CMPT 3__	15cu from CMPT 317, 332, 340, 353, 370, 381	Y3/4
CMPT 3__		Y3/4
CMPT 3__		Y3/4
CMPT 3__		Y3/4
CMPT 3__		Y3/4
CMPT 400	<i>Honours Thesis (must apply to register)</i>	Y3/4
	6cu from CMPT 410 or higher, CME433, 435, 451	Y3/4
		Y3/4

C5. Electives Requirement (24cu)

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

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.