

# B.Sc. Three-year Computer Science

## C1. College Requirement (12cu)

	6cu from <b>English Language Writing</b>	Y1
		Y2
	3cu from <b>Indigenous Learning</b>	
MATH 163	Mathematical Reasoning	<b>Quantitative Reasoning</b>
MATH 164	Linear Algebra 1	
		Y1
		Y1/2

## C2. Breadth Requirement (12cu)

	3cu from <b>Humanities or Social Science</b>	
	6cu from <b>Fine Arts, Humanities, Social Science, or Interdisciplinary Studies</b>	
PHIL 232	Ethics ... in Computer Science	Y2

Refer to the [programme description](#) for the full list of courses that fulfill C1 and C2 requirements.

## C3. Cognate Requirement (18cu)

	9 cu from <b>Junior</b>	

**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.

## C4. Majors Requirement (30cu)

CMPT 141 (or 116 or 142)	Introduction to Computer Science	Y1
CMPT 145 (or 117 or 146)	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	9cu from: BINF300, 300- or 400-level CMPT courses, and at most 1 of: CME 332, 341, 342, 433, 435, 451	Y3
CMPT		Y3
CMPT		Y3
MATH 110	Calculus 1*	Y1
STAT 242 (or 245)	Statistics** (or EE216 or ME 251)	Y2

**Mathematics Note:** \* Students with credit in other [Junior MATH](#) (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.

## C5. Electives Requirement (18cu)

	Courses to complete the requirements for 90cu Three-year program, of which at least 42 must be at the 200-level or higher.	