B.Sc. Honours Computer Science - Software Engineering Option

C1. College Requirement (15cu)

	Courteem English La	6cu from English Language Writing	
	ocu from English La		
	Indigenous Learnin	g	
MATH 110 (or 176)	Calculus I	Overtitative Recoming	Y1
MATH 164 (or 266)	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 (18cu)

	9 cu from Junior *		
MATH	6 cu from Mathematics		
MATH	List	9 cu Senior	
STAT 242 (or 245)	Statistics*		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.

Mathematics Mathematics: MATH 112 or 116, 211, 223, 225, 276, 327, 328,

List: MATH 361 and MATH 362, MATH 364;

Statistics: STAT 241, 344, 345, 348;

Philosophy: PHIL 243.

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

C4. Majors Requirement (54cu)

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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 332	Operating Systems Concepts	Y3/4
CMPT 340	Programming Language Paradigms	Y3/4
CMPT 353	Full-Stack Web Programming	Y3/4
CMPT 360	Machines and Algorithms	Y3/4
CMPT 370	Intermediate Software Engineering	Y3/4
CMPT 371	Software Management	Y3/4
CMPT 470	Advanced Software Engineering	Y3/4
CMPT 481	Human Computer Interaction	Y3/4
	CSPIP and 6cu from Senior CMPT*,	
	or CMPT405 and 3cu from Senior CMPT*	

Senior CMPT: Computer Science: 300- or 400- CMPT Bioinformatics: BINF 300 Computer Engineering: CME 332, 341, 342, 433, 435, 451

C5. Electives Requirement (24cu)

	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.	

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.

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