B.Sc. **Double Honours** *Computer Science* - **Major 1**

C1. Science Requirement (15cu)

CMPT 141 (or 116)	Intro to Computer Science	1
CMPT 145	Principles of Computer Science	1
	Select additional 9cu from Science Areas below; no more than 6cu from any one area.	

Science Areas: **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.

C2. Humanities Writing Requirement (6cu)

		1
		1

C3. Social Science Requirement (6cu)

C5. General Requirement (6cu)

No more than 6 credit units in C2, C3, or C5 from any one subject.
See the College Website for a full list of courses that meet requirements C2, C3, C5:

https://programs.usask.ca/arts-and-science/computer-science/index.php

C4. Mathematics Requirement (6cu)

MATH 110 or 176	Calculus I	1
MATH 164 (264) or 266	Linear Algebra	2

C7. Open Electives Requirement (3-9cu)

	Arts and Science courses, or other approved courses, to complete 120 credit unit Double Honours program; at least 66 must be at the 200-level or higher.	

C6. Major 1 (36cu)

CMPT 214	Programming Principles	2
CMPT 215	Computer Organization	2
CMPT 260	Math. Logic and Computing	2
CMPT 270	Object Oriented Systems	2
CMPT 280	Intermediate Data Structures	2
CMPT 360	Machines and Algorithms	3
CMPT 364	Automata and Formal Languages	3
CMPT 400	Research Topics in Computer Science	4
CMPT	*9cu from: 317, 332, 340, 353, 370, 381*	3
CMPT		3
CMPT		3
CMPT	*3cu from: 410 or higher*	4

C7. Major 2 (36-42cu)

	The prerequisite structure of courses in **Major 1** of this program assumes 9 credit units of Mathematics or Statistics, 6 credit units of which are required in **C4**. Students wishing to combine this program with another double honours program will need at least 3 additional credit units in Mathematics or Statistics (STAT 245 recommended). Students wishing to combine this program with a **Double Honours - Major 2** in a **Type C** program that requires additional Mathematics or Statistics beyond those stated in **C4** will be able to meet all prerequisites of courses in **Major 1** of this program. However, students in majors with minimal mathematics requirements may not be able to meet the prerequisites for courses in **Major 1** without taking additional Mathematics or Statistics. For these students, the recommended courses are MATH 110, MATH 266 or MATH 164 (264), STAT 245.	

For further details, please see the Academic Information & Policies in the Arts and Science section of the Calendar.