

# B.Sc. Four-year Computer Science (Dual degree: CME)

## C1. Science Requirement (15cu)

CMPT 141 (or 116)	Intro to Computer Science	2
CMPT 145	Principles of Computer Science	2
	<i>PHYS 125 or CHEM 115 or GEOL 121 or BIOL 120</i>	1
PHYS 155		1
CHEM 114		1

## C2. Humanities Writing Requirement (6cu)

		A
		A

## C3. Social Science Requirement (6cu)

	<i>See Note below.</i>	1
		A

## C5. General Requirement (6cu)

	<i>See Note below.</i>	4/5
		4/5

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>

**Note:** The CME program requires a 1st year Humanities or Social Science, a Compl Studies Elective, and a senior Humanities or Social Science in 4th year. If at least 3 cu are Social Sciences (or satisfy the Humanities Writing Requirement) and all of them are Arts and Science courses (not COMM, not RCM) then these can be used in the slots indicated above.

## C4. Mathematics Requirement (6cu)

MATH 123	Calculus I	1
MATH 164 (264) or 266	Linear Algebra	

## C7. Cognate Mathematics Requirement (9cu)

EE 216 or STAT 242 or 245	Introductory Statistics*	
MATH 124		
MATH 223		

## C6. Majors Requirement (45cu)

CMPT 214	Programming Principles	3
CME 331 or CMPT 215	Computer Organization	3
CMPT 260	Math. Logic and Computing	A
CMPT 270 (CS)	Object Oriented Systems	3/4
CMPT 280 (CS)	Intermediate Data Structures	3/4
PHIL 232	Ethics and Professional Responsibility	A
CMPT 353 or 370 (CS)		3/4
CMPT 332 (CS)		3/4
CMPT	<i>Choose 1 of: 432, 434, 436, 470.</i>	
CMPT	<i>Choose 1 with number 410 or higher</i>	A
CME 341		
CMPT	<i>Choose 4 of: 317, 340, 353, 360, 370, 381</i>	A
CMPT		A
CMPT		A
CMPT		A
CMPT		A

## C7. Electives Requirement (27cu)

EP 214		2
COMM 102		1
MATH 224		2
	2nd year Science Elective (not EVSC 203)	3
EE 221		2
CME 433		4/5
CME 435		4/5
CME 451		4/5
EE 232		2

**Note:** This program assumes that the student is completing the Computer Software stream. Courses required by the stream are marked (CS).

Engineering students may reuse courses from their Engineering program, as indicated; not all Engineering courses transfer.

A minimum of 30cu of A&S courses must be taken that are not used towards their Engineering degree. These requirements marked with "A" in right column.

Required courses taken in Year 1 (Common) and Year 2 (EE) are marked "1" or "2" in right column. To complete this degree alongside the 4-year EE program, a minimum 5 years total will be required for both. Students are encouraged to start 200-level CMPT courses in 3rd/4th year.