

B.Sc. Honours Computer Science - Software Engineering Option

C1. Science Requirement (15cu)

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

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	1

C7. Cognate Mathematics Requirement (9cu)

STAT 242 or 245	Introductory Statistics*	
	<i>6cu from Mathematics List</i>	

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

Mathematics MATH 112 or 116, 211, 223, 225, 276, 327, 328, 364;

List: MATH 363 or MATH 361 and MATH 362;

STAT 241, 344, 345, 348; PHIL 243.

C6. Majors Requirement (48cu)

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
PHIL 232	Ethics and Professional Responsibility	2
CMPT 332	Operating Systems Concepts	3/4
CMPT 340	Programming Language Paradigms	3/4
CMPT 353	Full Stack Web Programming	3/4
CMPT 360	Machines and Algorithms	3/4
CMPT 370	Intermediate Software Engineering	3
CMPT 371	Software Management	3
CMPT 470	Advanced Software Engineering	4
CMPT 481	Human-Computer Interfaces	4
CMPT	<i>Choose 2 of CMPT 300- or 400-level CMPT courses;</i>	3/4
CMPT	<i>BINF 300; CME 332, 341, 342, 433, 435, 451</i>	3/4

C7. Electives Requirement (24cu)

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

Business Science Note

If ECON 111 or 114 is used to meet requirement C3, the slot becomes a free elective. Otherwise, the slot becomes a Business Science Requirement from the following list: COMM 102, 105, 201, 203, 204, 205, 206, 210, 304; ECON 111, 114; AREC 230; ENT 210, 220, 230.