## FACULTY OF SCIENCE, APPLIED SCIENCE, & ENGINEERING

Degree Checklist—BScCS (Beginning Computer Science program Fall 2022 or later) Last updated March 2023



GENERAL INFORMATION TOTAL DEGREE CREDIT HOURS (CH): 14									
FIRST NAME:		LAST NAME:				STUDENT ID:			
REQUI	RED COURSES — 83 CH Honours: 85 CH								
	CS 1073 - Intro to Computer Prog I	(In Java)	4ch			CS 3403 - Operating Systems	4ch		
	CS 1083 - Intro to Computer Prog II (In Java)		4ch			CS 3619 - Programming Languages	4ch		
	CS1103 - Intro to Databases		4ch			CS 3813 - Comp. Architecture & Organization	4ch		
	CS 1303 - Discrete Structures		4ch			CS 3913 - Algorithmics	4ch		
	CS 2043 - Software Engineering I		4ch			CS 3983 - Professional Practice	4ch		
	CS 2253 - Machine Level Programming		4ch			CS 4982/4980 -Tech Report <b>OR</b> CS 4993 - Honours	4-6ch		
	CS 2263 - Systems Software Develo	pment	4ch			MATH 1003 - Intro Calculus I	3ch		
	CS 2333 - Computability & Formal L	anguagęs	4ch			MATH 1013 - Intro Calculus II	3ch		
	CS 2383 - Data Structures & Algorit	hms	4ch			MATH 1503 - Intro to Linear Algebra	3ch		
	CS 2803 - Logic Design <sup>2</sup>		4ch			STAT 1793 - Intro to Probability & Statistics I $^{4}$	3ch		
	ONE OF: CS 2704/ CS 3033/ CS 3893	3	4ch			STAT 2793 - Intro to Probability & Statistics II $^4$	3ch		
UPPER LEVEL COMPUTER SCIENCE ELECTIVES (3000-4000 LEVEL) -12 CH MINIMUM 1 COURSE MUST BE AT THE 4000 LEVEL									
BREAD	TH CORE ELECTIVES <sup>5, 6</sup> — 30 CH MIN 6 C	CH AT 2000-4000 L	LEVEL						
	HUM 1021 or ENGL/POLS/HIST COURSE	7	3ch						
FREE E	LECTIVES <sup>6</sup> — APPORXIMATELY 16 CH	THESE MUST BRIN	IG TOTAL	DEG	GREE	CH TO 141			
ADDIT	ONAL DEGREE REQUIREMENTS				_				
12 CH of ALL courses must have significant written requirement (indicated by [W] annotation in course calendar)									
Notes									
<ol> <li>CS 2263 may be replaced with CS 2617</li> <li>CS 2803 may be replaced with ECE 2214 + ECE 2215 - Digital Logic Design and Digital Logic Design Lab</li> <li>MATH 1503 can be replaced with MATH 2213</li> <li>STAT 1793 +2793 can be replaced with Stat 2593 Probability and Statistics for Engineers, however STAT 1793+2793 is mandatory for Data Analytics</li> </ol>									
5. There are select courses/types of courses that cannot count towards the Bread Core Electives, including: CMPE/CS/DA/MATH/STAT/SWE courses, BA 3129, BA 3623, BA 3624, BA 3672, BIOL 1605, CE 2913, ECON 3613, ECON 3665, ECON 4645, ECON 4665, ECE 2412, HEAL 2002, ME 2352, PSYC 2102, SOCI 3104									
b. There are select courses/types of courses that cannot count towards the program at all, including: BA 1605, BA 2606, CHEM 1813, CMPE 1003, CS 1003, CS 1023, CS 1063, IT 1703, IT 1713, IT 1803, IT 1813, IT 2773, MATH 1001, MATH 1853, MATH 1863, MATH 2853, MATH 2633, MATH 3633, Clinical/Practicum NURS courses, PSYC 2901, PSYC 3913, SCI 1001, SCI 1831, SCI 1862, SCI 1872, STAT 2263, STAT 2593, UNIV 1003, UNIV 1005, UNIV 2003, and no more than 9 ch of ED courses									

7. HUM 1021 or another course with a significant written component must be taken in years 1-2 prior to taking CS 3983.

A minimum grade of C is required in all required and core courses counting for credit towards the major, honours and specializations

ATTENTION: Students are responsible for their own academic choices and should always consult the Academic Calendar prior to academic decisions. This checklist is an informal guide to the major. Course selections should always be checked and approved with the academic advisor. If irregularities occur the Academic Calendar is the final source for decisions. Electives must include any general degree requirements. See UNB

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DATE	COMMENTS	DATE