

FACULTY OF SCIENCE, APPLIED SCIENCE, & ENGINEERING

Degree Evaluation – Computer Science



GENERAL INFORMATION

TOTAL: /141ch

Last Name:	First Name:	Student ID:
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REQUIRED COURSES

/86ch (min)

<input type="checkbox"/>	CS 1073 – Intro to Computer Prog I (in Java)	4ch Y1F	<input type="checkbox"/>	CS 3813 – Comp. Architecture & Organization	4ch Y3W
<input type="checkbox"/>	CS 1083 – Intro to Computer Prog II (in Java)	4ch Y1W	<input type="checkbox"/>	CS 3913 – Algorithmics	4ch Y3W
<input type="checkbox"/>	CS 1103 – Data and Information Management	4ch Y1W	<input type="checkbox"/>	CS 3983 ³ – Professional Practice	4ch Y3F
<input type="checkbox"/>	CS 1303 – Discrete Structures	4ch Y1F	<input type="checkbox"/>	CS 4980/4982 – Technical Report	4ch Y4F/W
<input type="checkbox"/>	CS 2043 – Software Engineering I	4ch Y2F		OR CS 4993 – Honours Project	6ch Y4F+W
<input type="checkbox"/>	CS 2253 – Machine Level Programming	4ch Y2W	<input type="checkbox"/>	ECE 2214 ¹ – Digital Logic Design	3ch Y2W
<input type="checkbox"/>	CS 2263 – Systems Software Development	4ch Y2F	<input type="checkbox"/>	ECE 2215 ¹ – Digital Logic Design Lab	1ch Y2W
<input type="checkbox"/>	CS 2333 – Computability and Formal Languages	4ch Y2W	<input type="checkbox"/>	Math 1003 – Intro Calculus I	3ch Y1F
<input type="checkbox"/>	CS 2383 – Data Structures and Algorithms	4ch Y2F	<input type="checkbox"/>	Math 1013 – Intro Calculus II	3ch Y1W
<input type="checkbox"/>	One of: CS 2704/3033/3893	4ch Y2/3	<input type="checkbox"/>	Math 1503 or 2213 – Linear Algebra	3ch Y1F
			<input type="checkbox"/>	Stat 1793 ² – Introduction to Probability and Statistics I	3ch Y1F
<input type="checkbox"/>	CS 3403 – Operating Systems	4ch Y3F	<input type="checkbox"/>	Stat 2793 ² – Introduction to Probability and Statistics II	3ch Y1W
<input type="checkbox"/>	CS 3619 – Programming Languages	4ch Y3W	<input type="checkbox"/>	HUM 1021/ENGL/POLS/HIST	3ch Y1/2/3

CS CORE UPPER LEVEL ELECTIVES

/12ch

<input type="checkbox"/>		Three upper level CS courses (4ch each) must be: - 3000 level or above - At least one at the 4000 level or above - can include courses counting towards specialization ⁴
<input type="checkbox"/>		
<input type="checkbox"/>		

BREADTH CORE ELECTIVES (BCE)⁵ min 6ch at 2-4XXX level

/27ch

Recommended that students take 4-5 courses in Arts (Humanities and Social Sciences) and Business Administration, and 4-5 in Engineering and Sciences. Cannot include courses in CS/CMPE/MATH/STAT/SWE.

<input type="checkbox"/>		<input type="checkbox"/>	
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<input type="checkbox"/>		<input type="checkbox"/>	

FREE ELECTIVES

/16ch

Approximately 16chs-these selections must bring the total ch to 141.

<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	

NOTES:

1. Can be replace with CS 2803 Logic Design.
2. Can be replace with Stat 2593 Probability and Statistics for Engineers, however STAT1793+2793 is mandatory for the Data Analytics.
3. HUM 1021 (BCE) must be taken in years 1-2 *prior* to taking CS 3983.
4. To complete a BScCS specialization and/or Honours, please see a Faculty Advisor *before* the start of your 3rd year.
5. Courses in other subjects that have substantial components of Mathematics, Statistics or CS (e.g. ECON 4645, PSYC 2102, SOCI 3104), **cannot count towards the Breadth Core Electives**. Please see course descriptions for details.
6. A **minimum grade of C is required** in all required and core courses counting for credit towards the major, honours and specializations.
7. There are **select courses that cannot count towards the program**: BA 1605, BA 2606, BA 3129, CHEM 1831, CS 1003, IT courses, MATH 1853, MATH 1863, MATH 2633, MATH 3633, PSYC 2901, PSYC 3913, SCI 1862, SCI 1872, and UNIV courses. Also, clinical/practicum or co-op courses will not count for credit.

This checklist is meant to be an informal guide to your major. Students are responsible for their own academic choices and should always consult the Undergraduate Academic Calendar for program information prior to academic decisions. If any irregularities occur – the Academic Calendar will be the final source for decisions. Electives must include any general degree requirements. See UNB Undergraduate Academic Calendar for UNB regulations and program descriptions.