FACULTY OF SCIENCE, APPLIED SCIENCE, \& ENGINEERING
Degree Checklist—BScCS (Beginning Computer Science program Fall 2022 or later) Last updated March 2023

REQUIRED COURSES - $\mathbf{8 3} \mathbf{C H}$ 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 OR CS 4993 - Honour | -6ch |
|  | CS 2263 - Systems Software Development | 4ch |  | MATH 1003 - Intro Calculus I | 3ch |
|  | CS 2333 - Computability \& Formal Languages | 4ch |  | MATH 1013 - Intro Calculus II | 3ch |
|  | CS 2383 - Data Structures \& Algorithms | 4ch |  | MATH 1503 - Intro to Linear Algebra | 3ch |
|  | CS 2803 - Logic Design ${ }^{2}$ | 4ch |  | STAT 1793 - Intro to Probability \& Statistics $1^{4}$ | 3ch |
|  | ONE OF: CS 2704/ CS 3033/ CS 3893 | 4ch |  | STAT 2793 - Intro to Probability \& Statistics II ${ }^{4}$ | 3ch |

## UPPER LEVEL COMPUTER SCIENCE ELECTIVES (3000-4000 LEVEL) $\mathbf{- 1 2} \mathbf{~ C H ~ M I N I M U M ~} 1$ COURSE MUST BE AT THE 4000 LEVEL



BREADTH CORE ELECTIVES ${ }^{\mathbf{5 , 6}} \mathbf{- 3 0} \mathbf{~ C H}$ MIN 6 CH AT 2000-4000 LEVEL


FREE ELECTIVES ${ }^{6}$ - APPORXIMATELY 16 CH THESE MUST BRING TOTAL DEGREE CH TO 141

| $\square$ |  | $\square$ |  |
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## ADDITIONAL DEGREE REQUIREMENTS

12 CH of ALL courses must have significant written requirement (indicated by [W] annotation in course calendar)

## Notes

1. CS 2263 may be replaced with CS 2617
2. CS 2803 may be replaced with ECE 2214 + ECE 2215 - Digital Logic Design and Digital Logic Design Lab
3. MATH 1503 can be replaced with MATH 2213
4. STAT $1793+2793$ can be replaced with Stat 2593 Probability and Statistics for Engineers, however STAT 1793+2793 is mandatory for Data Ana-
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
6. 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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