Bachelor of Science in Computer Science

Freshman Year
First Semester
3 – ENGL 1030 Accelerated Composition
4 – MATH 1060 Calculus of One Variable I
4 – Introduction to Computing Requirement¹
4 – Natural Science Requirement²
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Second Semester
4 – MATH 1080 Calculus of One Variable II
3 – Arts and Humanities (Non-Lit) Requirement³
4 – Introduction to Computing Requirement¹
4 – Natural Science Requirement²
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Sophomore Year
First Semester
3 – CPSC 2070 Discrete Structures for Computing⁴
4 – CPSC 2120 Algorithms and Data Structures
3 – Arts and Humanities (Literature) Requirement³
3 – Natural Science Requirement²
3 – Oral Communications Requirement⁵
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Second Semester
3 – CPSC 2150 Software Development Foundations
4 – CPSC 2310 Intro. to Computer Organization
1 – CPSC 2910 Seminar in Professional Issues I
3 – STAT 3090 Introductory Business Statistics⁶
3 – Natural Science Requirement²
2 – Elective
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Junior Year
First Semester
3 – CPSC 3300 Computer Systems Organization
3 – CPSC 3600 Networks and Network Programming
3 – CPSC 3720 Intro. to Software Engineering
3 – MATH 3110 Linear Algebra
3 – Social Science Requirement⁷
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Second Semester
3 – CPSC 3220 Introduction to Operating Systems
3 – CPSC 3500 Foundations of Computer Science
3 – CPSC 3620 Distributed and Cluster Computing
3 – Arts and Humanities Requirement⁷ or
3 – Social Science Requirement⁷
3 – Social Science Requirement³
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15

Senior Year
First Semester
3 – CPSC 3520 Programming Systems
6 – Computer Science Requirement⁸
3 – Writing Requirement⁹
3 – Elective
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Second Semester
3 – CPSC 4910 Seminar in Professional Issues II
3 – Arts and Humanities Requirement⁷ or
3 – Social Science Requirement⁷
6 – Computer Science Requirement⁸
3 – Elective
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15

122 Total Semester Hours

¹ Select either CPSC 1010 and 1020, or CPSC 1060 and 1070. CPSC 1110 and 1020 is also acceptable with one elective credit in the first semester.
² Two-semester sequence in the same physical or biological science, each including a laboratory is required. Select from BIOL 1030/1050, 1040/1060; 1100, 1110; CH 1010, 1020; GEOL 1010/1030 and 1020 or 1120/1140; PHYS 1220/1240, 2210/2230. The six remaining hours may be selected from BIOL, BCHM, CH, GEOL, MICR, PHYS; or ENSP 2000.
³ See General Education requirements.
⁴ MATH 1190 may be substituted.
⁵ One course of: COMM 1500, 2500, HON 2230; or the cluster of courses AS 3090, 3100, 4090, 4100; or ML 1010, 1020.
⁶ Or MATH 3020 or STAT 3300 or transfer credit for MATH 3010.
⁷ Select from courses in AAH, ANTH, ART, CHIN, COMM, DANC, EAS, ECON, ENGL, FR, GEOG, GER, HIST, HUM, ITAL, JAPN, MUSC, PA, PAS, PHIL, POSC, PSYC, REL, RUSS, SOC, SPAN, THEA, WS.
⁸ Select from 3000-level or higher CPSC courses or DPA 3070. No more than three credits of CPSC 3990 or 4810 may be used, and no more than six credits of CPSC 4820 may be used. Up to three credits of ECE 3000-level or higher; or MATH 3650; or MATH 4000-level may be used.
⁹ One course of: ENGL 3040, 3120, 3140, 3150, 3160, 3330; AS 3090, 3100, 4090, 4100; ML 3010, 3020, 4010, 4020.

Notes:
1. For graduation, a candidate for the BS degree in Computer Science must have earned a grade of C or better in each CPSC course applied to the non-elective requirements of the degree.
2. A grade of C or better must be earned in all prerequisite courses (including CPSC and MATH courses) before enrolling in the next CPSC course.
3. General Education Cross-Cultural Awareness and Science and Technology in Society requirements must be satisfied.

Consult the Undergraduate Announcements for official curriculum requirements