B.A. in Computer Science Curriculum
2014-2015 Academic Year

Computer Science
Bachelor of Arts

Freshman Year
First Semester
4 – CPSC 1010 Computer Science I
3 – ENGL 1030 Accelerated Composition
3 – MATH 1020 Introduction to Mathematical Analysis or
4 - MATH 1060 Calculus of One Variable I
4 – Foreign Language Requirement
1 – Elective
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15

Second Semester
4 – CPSC 1020 Computer Science II
3 – MATH 2070 Multivariable Calculus or
4 - MATH 1080 Calculus of One Variable II
3 – Arts and Humanities (Non-Lit.) Requirement
4 – Foreign Language Requirement
1 – Elective
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15

Sophomore Year
First Semester
3 – CPSC 2070 Discrete Structures for Computing
4 – CPSC 2120 Algorithms and Data Structures
3 – Arts and Humanities (Literature) Requirement
3 – Foreign Language Requirement
3 – Oral Communications Requirement
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16

Second Semester
3 – CPSC 2150 Software Development Foundations
4 – CPSC 2310 Intro. to Computer Organization
1 – CPSC 2910 Seminar in Professional Issues I
3 – Foreign Language Requirement
4 – Natural Science Requirement
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Junior Year
First Semester
6 – Computer Science Requirement
3 – Mathematical Sciences Requirement
3 – Minor Requirement
3 – Natural Science Requirement
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Second Semester
3 – Computer Science Requirement
6 – Minor Requirement
3 – Social Science Requirement
3 – Writing Requirement
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Senior Year
First Semester
6 – Computer Science Requirement
3 – Departmental Humanities Requirement
3 – Minor Requirement
3 – Social Science Requirement
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15

Second Semester
3 – CPSC 4910 Seminar in Professional Issues II
3 – Computer Science Requirement
3 – Fine Arts Requirement
3 – Minor Requirement
3 – Elective
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15

121 Total Semester Hours

1Select either the MATH 1020/2070, 1060/2070 or 1060/1080 sequence. Students who select the 1060/1080 sequence will have satisfied the elective credits in the freshman year. Students interested in computer graphics should select the 1060/1080 sequence.
2Four semesters (through 2020) in the same modern foreign language are required.
3See General Education Requirements.
4One course of: COMM 1500, 2500, HONS 2230; or the cluster of courses AS 3090, 3100, 4090, 4100; or ML 1010, 1020.
5Select from courses in BIOL, BCHM, CH, GEOL, MICR, PHYS; or ENSP 2000. At least one course must include a laboratory and satisfy the Natural Science General Education Requirement.
6Select from CPSC courses numbered 3000-level or higher. No more than three credits of CPSC 3990 or 4810 may be applied to this requirement, and no more than six credits of CPSC 4820 may be applied. Up to three credits of approved 3000-level or higher MATH or ECE courses may be substituted.
7MATH 2060 and 3020; or MATH 3110; or STAT 3090; or STAT 2300 and 3300. MATH 3110 is required for all graphics courses.
8One course of: ENGL 3040, 3120, 3140, 3150, 3160, 3330; AS 3090, 3100, 4090, 4100; ML 3010, 3020, 4010, 4020.
9Select from courses in AAH, ANTH, ART, CHIN, DANC, ENGL, FR, GER, HUM, ITAL, JAPN, MUSC, PA, PHIL, REL, RUSS, SPAN, THEA.
10MUSC 2100 or any course in AAH, ART, or THEA.

Notes:
1. For graduation, a candidate for the BA 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.