### Bachelor of Arts in Computer Science

#### Freshman Year

**First Semester**
- 3 – ENGL 1030 Accelerated Composition
- 3 – MATH 1020 Introduction to Mathematical Analysis\(^1\) or 4 - MATH 1060 Calculus of One Variable I\(^1\)
- 4 – Modern Language Requirement\(^2\)
- 4 – Introduction to Computing Requirement\(^3\)
  - 1 – Elective\(^5\)

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**Second Semester**
- 4 – Introduction to Computing Requirement\(^3\)
- 3 – MATH 2070 Multivariable Calculus\(^1\) or 4 - MATH 1080 Calculus of One Variable II\(^1\)
- 3 – Arts and Humanities (Non-Lit.) Requirement\(^4\)
- 4 – Foreign Language Requirement\(^7\)
  - 1 – Elective\(^5\)

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#### Sophomore Year

**First Semester**
- 3 – CPSC 2070 Discrete Structures for Computing\(^5\)
- 4 – CPSC 2120 Algorithms and Data Structures
- 3 – Arts and Humanities (Literature) Requirement\(^4\)
- 3 – Foreign Language Requirement\(^7\)
  - 3 – Oral Communications Requirement\(^6\)

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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 – Foreign Language Requirement\(^7\)
- 4 – Natural Science Requirement\(^1\)

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#### Junior Year

**First Semester**
- 6 – Computer Science Requirement\(^9\)
- 3 – STAT 3090 Introductory Business Statistics\(^8\)
- 3 – Minor Requirement
- 3 – Natural Science Requirement\(^7\)

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**Second Semester**
- 3 – Computer Science Requirement\(^9\)
- 6 – Minor Requirement
- 3 – Social Science Requirement\(^4\)
- 3 – Writing Requirement\(^10\)

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#### Senior Year

**First Semester**
- 6 – Computer Science Requirement\(^9\)
- 3 – Departmental Humanities Requirement\(^11\)
- 3 – Minor Requirement
- 3 – Social Science Requirement\(^4\)

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**Second Semester**
- 3 – CPSC 4910 Seminar in Professional Issues II
- 3 – Computer Science Requirement\(^9\)
- 3 – Fine Arts Requirement\(^12\)
- 3 – Minor Requirement
- 3 – Elective

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121 Total Semester Hours

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1. Select 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.

2. Four semesters (through 2020) in the same modern foreign language are required.

3. 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.

4. See General Education Requirements.

5. MATH 1190 may be substituted.

6. One course of: COMM 1500, 2500, HON 2230; or the cluster of courses AS 3090, 3100, 4090, 4100; or ML 1010, 1020.

7. Select 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.

8. Or MATH 3020, MATH 3110, STAT 3300, or transfer credit for MATH 3010. MATH 3110 is required for computer graphics courses.

9. 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.

10. One course of: ENGL 3040, 3120, 3140, 3150, 3160, 3330; AS 3090, 3100, 4090, 4100; ML 3010, 3020, 4010, 4020.

11. Select from courses in AAH, ANTH, ART, CHIN, DANC, ENGL, FR, GER, HUM, ITAL, JAPN, MUSC, PA, PHIL, REL, RUSS, SPAN, THEA.

12. MUSC 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.

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Consult the Undergraduate Announcements for official curriculum requirements