

B.S. in Computer Information Systems Curriculum

2014-2015 Academic Year

Computer Information Systems Bachelor of Science

Freshman Year

First Semester

4 – CPSC 1010 Computer Science I
 3 – ENGL 1030 Accelerated Composition
 3 – MATH 1020 Introduction to Mathematical Analysis¹ *or*
 4 – MATH 1060 Calculus of One Variable I¹
 4 – Natural Science Requirement²
 1 – Elective¹

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Second Semester

4 – CPSC 1020 Computer Science II
 3 – MATH 2070 Multivariable Calculus¹ *or*
 4 – MATH 1080 Calculus of One Variable II¹
 3 – Arts and Humanities (Non-lit.) Requirement³
 3 – Natural Science Requirement²
 3 – Social Science Requirement³
 1 – Elective¹

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Sophomore Year

First Semester

3 – CPSC 2070 Discrete Structures for Computing
 4 – CPSC 2120 Algorithms and Data Structures
 3 – Arts and Humanities (Literature) Requirement³
 3 – Oral Communications Requirement⁴
 3 – Social Science Requirement³

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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 – MGT 2010 Principles of Management
 3 – STAT 3090 Introductory Business Statistics⁵

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Junior Year

First Semester

3 – ACCT 2010 Financial Accounting Concepts
 3 – CPSC 2200 Microcomputer Applications
 3 – CPSC 3220 Intro. to Operating Systems
 3 – CPSC 3720 Intro. to Software Engineering
 3 – Writing Requirement⁶

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Second Semester

3 – ACCT 2020 Managerial Accounting Concepts
 3 – CPSC 3600 Networks and Network Programming
 3 – CPSC 3710 System Analysis *or*
 3 – MGT 4520 Systems Analysis and Design
 3 – ECON 2110 Principles of Microeconomics
 3 – Computer Science Requirement⁷

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Senior Year

First Semester

3 – CPSC 4200 Computer Security Principles *or*
 3 – CPSC 4240 System Admin. and Security
 3 – CPSC 4620 Database Management Systems
 3 – CPSC 4910 Seminar in Professional Issues II
 3 – Business Requirement⁸
 3 – Computer Science Requirement⁷

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Second Semester

3 – MGT 3120 Decision Models for Management
 3 – MKT 3010 Principles of Marketing
 3 – Business Requirement⁸
 3 – Computer Science Requirement⁷
 3 – Information Systems Requirement⁹

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122 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 two elective credits in the freshman year.

²Select 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.

³See General Education Requirements.

⁴Select from: COMM 1500, 2500, HONS 2230; or the cluster of courses AS 3090, 3100, 4090, 4100; or ML 1010, 1020.

⁵MATH 2060 and 3020, or STAT 2300 and 3300 may be substituted.

⁶Select from: ENGL 3040, 3120, 3140, 3150, 3160, 3330; AS 3090, 3100, 4090, 4100; ML 3010, 3020, 4010, 4020.

⁷Select from 3000-level or higher CPSC courses. 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.

⁸Select from MGT 3900, 4000 and FIN 3060.

⁹Select from MGT 4520, 4540, 4550, 4560, or any 4000-level CPSC course. CPSC 4810 may not be used.

Notes:

- For graduation, a candidate for the BS degree in Computer Information Systems must have earned a grade of C or better in each CPSC course applied to the non-elective requirements of the degree.
- 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.
- General Education Cross-Cultural Awareness and Science and Technology in Society requirements must be satisfied.