# Computer Information Systems
## 2016-2017 Curriculum

### Freshman Year

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

**Second Semester**
- Introduction to Computing Requirement\(^2\)
- MATH 2070 Multivariable Calculus\(^6\) or MATH 1080 Calculus of One Variable II\(^1\)
- Arts and Humanities (Literature) Requirement\(^4\)
- Natural Science Requirement\(^3\)
- Social Science Requirement\(^4\)
- Elective\(^5\)

### Sophomore Year

**First Semester**
- CPSC 2070 Discrete Structures for Computing\(^5\)
- CPSC 2120 Algorithms and Data Structures
- Arts and Humanities (Literature) Requirement\(^4\)
- Oral Communications Requirement\(^6\)
- Social Science Requirement\(^4\)

**Second Semester**
- CPSC 2150 Software Development Foundations
- CPSC 2310 Intro. to Computer Organization
- CPSC 2910 Seminar in Professional Issues I
- MGT 2010 Principles of Management
- STAT 3090 Introductory Business Statistics\(^7\)

### Junior Year

**First Semester**
- ACCT 2010 Financial Accounting Concepts
- CPSC 2200 Microcomputer Applications
- CPSC 3220 Introduction to Operating Systems
- CPSC 3720 Intro. to Software Engineering
- Writing Requirement\(^8\)

**Second Semester**
- ACCT 2020 Managerial Accounting Concepts
- CPSC 3600 Networks and Network Programming
- CPSC 3710 System Analysis or MGT 4520 Systems Analysis and Design
- Computer Science Requirement\(^9\)
- Economics Requirement\(^10\)

### Senior Year

**First Semester**
- CPSC 4200 Computer Security Principles or CPSC 4240 System Admin. and Security
- CPSC 4620 Database Management Systems
- CPSC 4910 Seminar in Professional Issues II
- Business Requirement\(^11\)
- Computer Science Requirement\(^9\)

**Second Semester**
- MGT 3120 Decision Models for Management
- MKT 3010 Principles of Marketing
- Business Requirement\(^11\)
- Computer Science Requirement\(^9\)
- Information Systems Requirement\(^12\)

122 Total Semester Hours

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1. Select either the MATH 1020/1070, 1060/1070 or 1060/1080 sequences. Students who select the 1060/1080 sequence will have satisfied the two elective credits in the freshman year.
2. 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.
3. Select from courses in BIOL, BCHM, CH, GEOL, MICR, PHYS; or ENSP 200. At least one course must include a laboratory and satisfy the Natural Science General Education requirement.
4. See General Education Requirements.
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. One course of: ENGL 3040, 3120, 3140, 3150, 3160, 3330; AS 3090, 3100, 4090, 4100; ML 3010, 3020, 4100, 4020.
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.
10. Select from MGT 3900, 4000 and FIN 3060.
11. Select from MGT 4520, 4540, 4550, 4560, or any 4000-level CPSC course. CPSC 4810 may not be used.

Notes:
1. 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.
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.