

B.S. in Computer Information Systems Curriculum

2010/2011-2011/2012 Academic Year

Computer Information Systems Bachelor of Science

Freshman Year

First Semester

- 4 – CP SC 101 Computer Science I
 3 – ENGL 103 Accelerated Composition
 3 – MTHSC 102 Intro. to Mathemat. Analysis¹ and
 1 – Elective¹ *or*
 4 – MTHSC 106 Calculus of One Variable I¹
 4 – Natural Science Requirement²

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Second Semester

- 4 – CP SC 102 Computer Science II
 3 – MTHSC 207 Multivariable Calculus¹ and
 1 – Elective¹ *or*
 4 – MTHSC 108 Calculus of One Variable II¹
 3 – Arts and Humanities (Non literature) Requirement²
 3 – Natural Science Requirement²
 3 – Social Science Requirement³

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Sophomore Year

First Semester

- 3 – CP SC 207 Discrete Structures for Computing
 4 – CP SC 212 Algorithms and Data Structures
 3 – Arts and Humanities (Literature) Requirement³
 3 – Oral Communications Requirement³
 3 – Social Science Requirement³

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Second Semester

- 3 – CP SC 215 Software Development Foundations
 4 – CP SC 231 Intro. to Computer Organization
 1 – CP SC 291 Seminar in Professional Issues I
 3 – Probability and Statistics Requirement⁴
 3 – MGT 201 Principles of Management

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Junior Year

First Semester

- 3 – ACCT 201 Accounting Concepts I
 3 – CP SC 322 Intro. to Operating Systems
 3 – CP SC 372 Intro. to Software Engineering
 3 – Writing Requirement⁵
 3 – MTHSC 311 Linear Algebra

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Second Semester

- 3 – ACCT 202 Accounting Concepts II
 3 – CP SC 360 Networks and Network Programming
 3 – CP SC 371 System Analysis *or*
 3 – MGT 452 Systems Analysis and Design
 3 – ECON 211 Principles of Microeconomics
 3 – Computer Science Requirement⁶

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Senior Year

First Semester

- 3 – CP SC 420 Computer Security Principles *or*
 3 – CP SC 424 System Admin. and Security
 3 – CP SC 462 Database Management Systems
 3 – CP SC 491 Seminar in Professional Issues II
 3 – Computer Science Requirement⁶
 3 – Business Requirement⁷

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Second Semester

- 3 – MGT 312 Decision Models for Management
 3 – MKT 301 Principles of Marketing
 3 – Business Requirement⁷
 3 – Computer Science Requirement⁶
 3 – Information Systems Requirement⁸

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122 Total Semester Hours

¹Select either the MTHSC 102/207 or MTHSC 106/108 sequence. Students who select the MTHSC 106/108 sequence will have satisfied the 2 elective credits in the freshman year.

²Select from courses in BIOL, BIOCH, BIOSC, CH, GEOL, MICRO, PHYS; or EN SP 200. At least one course must include laboratory and satisfy the Natural Science General Education requirement.

³See General Education Requirements.

⁴Select from courses in MTHSC 301, 302 or 309.

⁵Select from School-approved list.

⁶Select from 300-level or higher CP SC courses. No more than six credits of CP SC 481 may be used..

⁷Select from MGT 390, MGT 400 and FIN 306.

⁸Select from MGT 452, 454, 455, 456, or 400-level CP SC course. CP SC 481 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 "CP SC" designated course applied to the degree.
- A grade of C or better must be earned in all prerequisite courses (including CP SC and MTHSC courses) before enrolling in the next CP SC course.