

## B.A. in Computer Science Curriculum 2010/2011-2011/2012 Academic Year

### Computer Science Bachelor of Arts

#### Freshman Year

##### First Semester

4 – CP SC 101 Computer Science I  
 3 – ENGL 103 Accelerated Composition  
 3 – MTHSC 102 Intro. to Mathemat. Analysis<sup>1</sup> and  
     1 – Elective<sup>1</sup> *or*  
     4 – MTHSC 106 Calculus of One Variable I<sup>1</sup>  
 4 – Foreign Language Requirement<sup>2</sup>  
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##### Second Semester

4 – CP SC 102 Computer Science II  
 3 – MTHSC 207 Multivariable Calculus<sup>1</sup> and  
     1 – Elective<sup>1</sup> *or*  
     4 – MTHSC 108 Calculus of One Variable II<sup>1</sup>  
 3 – Arts and Humanities (Non-Lit.) Requirement<sup>3</sup>  
 4 – Foreign Language Requirement<sup>2</sup>  
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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) Requirement<sup>3</sup>  
 3 – Foreign Language Requirement<sup>2</sup>  
 3 – Oral Communications Requirement<sup>3</sup>  
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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 – Foreign Language Requirement<sup>2</sup>  
 4 – Natural Science Requirement<sup>4</sup>  
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#### Junior Year

##### First Semester

6 – Computer Science Requirement<sup>5</sup>  
 3 – Mathematical Sciences Requirement<sup>6</sup>  
 3 – Minor Requirement  
 3 – Natural Science Requirement<sup>4</sup>  
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##### Second Semester

3 – Computer Science Requirement<sup>5</sup>  
 6 – Minor Requirement  
 3 – Social Science Requirement<sup>3</sup>  
 3 – Writing Requirement<sup>7</sup>  
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#### Senior Year

##### First Semester

6 – Computer Science Requirement<sup>5</sup>  
 3 – Departmental Humanities Requirement<sup>8</sup>  
 3 – Minor Requirement  
 3 – Social Science Requirement<sup>3</sup>  
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##### Second Semester

3 – CP SC 491 Seminar in Prof. Issues II  
 3 – Computer Science Requirement<sup>5</sup>  
 3 – Fine Arts Requirement<sup>9</sup>  
 3 – Minor Requirement  
 3 – Elective  
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121 Total Semester Hours

<sup>1</sup>Select either the MTHSC 102/207 or MTHSC 106/108 sequence. Students who select the MTHSC 106/108 sequence will have satisfied the two elective credits in the freshman year. Students interested in computer graphics should select the 106/108 sequence.

<sup>2</sup>Four semesters (through 202) in the same modern foreign language are required.

<sup>3</sup>See General Education Requirements.

<sup>4</sup>Select from courses in BIOL, BIOCH, BIOSC, CH, GEOL, MICRO, PHYS; or EN SP 200. At least one course must include lab and satisfy the Natural Science General Education requirement.

<sup>5</sup>Select from CP SC courses numbered 300-level or higher. No more than six credits of CpSc 481 may be applied to this requirement. Up to 3 credits of approved 300-level or higher MTHSC or ECE courses may be substituted

<sup>6</sup>Select from MTHSC 301, 302, 309 or 311. MTHSC 311 is required for all graphics courses.

<sup>7</sup>Select from School-approved list.

<sup>8</sup>Select from courses in A A H, ANTH, ART, CHIN, DANCE, ENGL, FR, GER, HUM, ITAL, JAPN, MUSIC, P A, PHIL, REL, RUSS, SPAN, THEA.

<sup>9</sup>MUSIC 210 or any course in A A H, ART, or THEA.

##### Notes:

- For graduation, a candidate for the BA degree in Computer Science 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.