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

Computer Science
Bachelor of Science

Freshman Year
First Semester
4 – CP SC 101 Computer Science I
3 – ENGL 103 Accelerated Composition
4 – MTHSC 106 Calculus of One Variable I
4 – Natural Science Requirement[1]

15

Second Semester
4 – CP SC 102 Computer Science II
4 – MTHSC 108 Calculus of One Variable II
3 – Arts and Humanities (Non-Lit) Requirement[1]
4 – Natural Science Requirement[1]

15

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[2]
3 – Natural Science Requirement[1]
3 – Oral Communications Requirement[2]

16

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 Requirement[3]
3 – Natural Science Requirement[1]
2 – Elective

16

Junior Year
First Semester
3 – CP SC 330 Computer Systems Organization
3 – CP SC 360 Networks & Network Programming
3 – CP SC 372 Intro. to Software Engineering
3 – MTHSC 311 Linear Algebra
3 – Social Science Requirement[2]

15

Second Semester
3 – CP SC 322 Intro. to Operating Systems
3 – CP SC 350 Foundations of Computer Science
3 – CP SC 362 Distributed and Cluster Computing
3 – Social Science Requirement[2]
3 – Arts and Humanities Requirement[4] *or*
3 – Social Science Requirement[4]

15

Senior Year
First Semester
3 – CP SC 352 Programming Languages
3 – Writing Requirement[6]
6 – Computer Science Requirement[5]
3 – Elective

15

Second Semester
3 – CP SC 491 Seminar in Prof. Issues II
3 – Arts and Humanities Requirement[4] *or*
3 – Social Science Requirement[4]
6 – Computer Science Requirement[5]
3 – Elective

15

122 Total Semester Hours

[1]Two semester sequence in the same physical or biological science, each including lab, is required. Select from BIOL 103/105, 104/106; 110, 111; CH 101, 102; GEOL 101/103 and 102 or 112/114; PHYS 122/124, 221/223. The six remaining hours may be selected from BIOL, BIOCH, BIOSC, CH, GEOL, MICRO, PHYS; or EN SP 200.
[2]See General Education Requirements.
[3]Select from courses in MTHSC 301, 302 or 309.
[4]Select from courses in A A H, ANTH, ART, CHIN, COMM, DANCE, E A S, ECON, ENGL, FR, GEOG, GER, HIST, HUM, ITAL, JAPN, MUSIC, P A, P A S, PHIL, PO SC, PSYCH, REL, RUSS, SOC, SPAN, THEA, W S.
[5]Select from 300-level or higher CP SC courses. No more than six credits of CpSc 481 may be applied to this requirement. Up to three credits of approved 300-level or higher MTHSC or ECE courses may be substituted.
[6]Select from School-approved list.

Notes:
1. For graduation, a candidate for the BS degree in Computer Science must have earned a grade of C or better in each CP SC designated course applied to the degree.
2. 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.