BACHELOR OF SCIENCE IN COMPUTER SCIENCE (B235)

Summer 2013 through Spring 2014 – Total Credit Hours: 120-121

For old MATH Sequence

FRESHMAN

Fall 16 Hours
- MATH 1823 Calculus & Analytic Geometry I
- CS 1323 Intro to Computer Programming
- ENGL 1113 English Composition
- PHYS 1311 General Physics (Lab)
- PSC 1113 American Federal Government
- Approved Elective: Artistic Forms (Core IV)

Spring 15 Hours
- MATH 2423 Calculus & Analytic Geometry II
- CS 2244 Programming Structures & Abstractions
- ENGL 1213, or EXPO 1213
- Approved Elective: Social Science (Core III)

SOPHOMORE

Fall 13-14 Hours
- MATH 2433 Calculus & Analytic Geometry III
- CS 2603 Applied Logic for Hardware & Software
- PHYS 2813 Discrete Structures
- Approved Elective: Natural Science (Core II) 3-5 hours

Spring 17 Hours
- MATH 2443 Calculus & Analytic Geometry IV
- CS 2613 Computer Organization
- CS 2413 Data Structures
- Approved Elective: Natural Science (Core II) 3-5 hours

JUNIOR

Fall 14 Hours
- CS 2613 Intro to Operating Systems
- CS 3202 Software Requirements & Specifications
- MATH 3323 Linear Algebra
- 1 of the following 3 courses:
  - MATH 4753
  - MATH 4733 (SP)
  - MATH 3413 (FA)

Spring 15 Hours
- MATH 3313 Principles of Programming Languages
- CS 4513 Database Management Systems
- ENGL 3153 Technical Writing, or B C 2813 Business Communications
- 9 Honors College students may substitute CS 3960 for ENGL 3153 / BC 2813 and CS 3980 for an approved CS elective. Both CS 3960 and 3980 must be completed.

SENIOR

Fall 15 Hours
- CS 4263 Software Engineering II
- CS Elective
- CS Elective
- CS Elective
- HIST 1483, or HIST 1493

Spring 15 Hours
- CS 4273 Software Engineering II (Capstone)
- CS 4413 Algorithm Analysis
- CS Elective
- CS Elective
- Approved Elective: Non-Western Culture (Core IV)

Additional Prerequisites and Notes:

1. Prerequisite for CS 1323 = MATH 1523 or MATH 1823 concurrently
2. Prerequisite for A) MATH 3113 = MATH 2423 B) MATH 3413 = MATH 2443 or concurrent
3. Prerequisite for A) ENGL 3153 = call 325-5927 B) BC 2813 = ENGL / EXPO 1213 and COMM 2613
4. Prerequisite for A) MATH 4753 = MATH 2423 B) ISE 3293 = MATH 2433 C) MATH 4743 = MATH 4733 (FA)
5. Prerequisite for MATH 4073 = MATH 3113 or 3413
6. CS 2813 and 2413 are prerequisites for all 3000 and 4000-level CS courses.
7. The total of all credit hours for science and free open electives should be equal to at least 14 credit hours.

To be chosen from:
- CS 4013, 4023, 4033, 4053, 4073, 4113, 4133, 4233, 4433, 4613, 4743, 4823, and 4973.

Honors College students may substitute CS 3960 for ENGL 3153 / BC 2813 and CS 3980 for an approved CS elective. Both CS 3960 and 3980 must be completed.

Note: Shaded courses are only offered once a year.

Dashed lines indicate prerequisites that may be taken concurrently
Modified: 2013-0128/SR

This flowchart is not an official check sheet of degree requirements. It is meant to be used as a supplemental visual guide to be used along with the official University of Oklahoma degree check sheet http://checksheets.ou.edu/engrindx.htm