

Bachelor of Science in Computer Science (B235)

Summer 2018 through Spring 2019 – Total Credit Hours: 120

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.

FRESHMAN

SOPHOMORE

JUNIOR

SENIOR

Fall
12-15 Hours

Spring
14 Hours

Fall
15 Hours

Spring
14 Hours

Fall
18 Hours

Spring
13-16 Hours

Fall
15 Hours

Spring
15 Hours

MATH 1914
Calculus I

MATH 2924
Calculus II

MATH 2934
Calculus III

CS 3203
Software
Requirements &
Specifications

MATH 3333
Linear Algebra

Prereq:
MATH 1914/1823

CS 4263
Software Engr I

Additional Prereq:
ENGR 2002

CS 4273
Software
Engineering II

Must earn a B minimum in CS 1321/1323/1324 OR CS 2334 to continue in any remaining CS courses.

4-hour CS Programming:

CS 1321
Intro Java

or

CS 1323
Intro Comp. Programming

or

CS 1324
Intro Comp. Programming (Non-Programmers)

Co-req:
MATH 1523

CS 2334
Programming Structures and Abstractions

CS 2813
Discrete Structures or
MATH 2513*
Discrete Mathematics

**MATH 2513 prereq is MATH 2924/2423*

CS 2614
Computer Organization

CS 3113
Intro to Operating Systems

CS 3053
Human Interaction

CS 4000+ level Elective*

**excludes CS 4910 & 4970*

CS 3823
Theory of Computation

4-hours OPEN ELECTIVE
To reach 120 hours total

**Approved by CGoE Advisor*

CS 4413
Algorithm Analysis

CS 2413
Data Structures

Additional Prereq:
MATH 1914/1823

0-3 hours OPEN ELECTIVE
To meet 4-hour CS Programming requirement

**Approved by CGoE Advisor*

One of the Following Courses:

- MATH 4753 (MATH 2924/2423 prereq)
- ISE 3293 (MATH 2924/2433 prereq)
- MATH 4743 (MATH 4733 prereq)--fall only

CS 4513
Database Management Systems

CS 4000+ level Elective*

**excludes CS 4910 & 4970*

PSC 1113
American Federal Government

CS 3323
Principles of Prog. Languages

CS 4000+ level Elective*
or
MATH 4073
(MATH 3113 prereq)

**excludes CS 4910 & 4970*

HIST 1483 or 1493
US 1492-1865 or US 1865-present

ENGR 1411 / 3511
Freshman / Transfer Engr Experience

ENGR 2002
Professional Development

Additional Prereq:
Soph standing

PHYS 2514
Physics for Engr

Prereq:
MATH 1914/1823

3-hour 3000+ level MATH course
or
Completion of MINOR and 3-hour Open Elective

**Approved by CGoE Advisor*

OPEN ELECTIVE
To meet 14 hour Natural Science requirement

- PHYS 2514 required
- 14 hours minimum
- One Non-Physics course
- Natural Science LAB

**Approved by CGoE Advisor*

Approved Elective
Western Civilization & Culture

Approved Elective
Non-Western Culture

Approved Elective
Artistic Forms

Natural Science (Core I)

Approved Elective
Social Science

Natural Science (Core I)
Non-PHYS course

★ At least one of these Gen. Ed. courses must be 3000-4000 level.

Foreign Language: 2 semesters college level or 2 years of high school.

◇ CS placement survey must be taken. Link in classnav.ou.edu course description.

Note: Utilize flowcharts as a supplemental guide to OU Official check sheet <http://checksheets.ou.edu> and regular visits with your WSSC College Advisor

⊕ MATH minor can be completed in your CS degree by choosing MATH 4073 and MATH 4753 or 4743

←---→ Co-requisite.

←→ Prerequisite

Shaded courses offered once a year (fall or spring only)