Computer Science B.S. Degree
2017-2018 Curriculum Chart

CMPS 5J
Intro to Prog: Java

OR

CMPS 12A/L
Intro to Prog. (Accelerated)

OR

CMPS 11
Intermediate Programming

CMPE 13/L
Computer Systems and C Programming

CMPS 12B/M
Data Structures

**OR

**CMPS 13H/L
Intro to Prog. & Data Structures (Honors)

** Students may take CMPS 13/L in lieu of another introductory programming class + data structures.

Disciplinary Communication Requirement (DC)
Students of every major must satisfy that major’s upper-division Disciplinary Communication (DC) Requirement. The DC Requirement for the Computer Science B.S. is satisfied by completing one of the following courses:

- CMPS 115 Introduction to Software Engineering
- CMPS 132W** Computability and Computational Complexity
- CMPS 180W** Database Systems
- CMPS 185 Technical Writing and Communication in CS

Ψ CMPS 195 Senior Thesis
♦ CMPE 185 Technical Writing for CE

The DC and Capstone courses can count towards the 6 required upper division electives.

CMPS Upper Division Electives: 5 credit (or more than 5 credit) upper-division computer science (CMPS) courses with course number 190 or below, or CMPS 195.
Ψ CMPS 195 can satisfy both the DC and Capstone requirement, and 1 upper division elective.

Ψ Upper Division Electives: 5 credit (or more than 5 credit) upper-division computer science (CMPS) or computer engineering (CMPE) courses with course number 190 or below, or CMPS 195, or courses from the Computational Media electives on the back of this chart. Up to 2 of these electives may be replaced by upper-division mathematics electives listed on the back.

Comprehensive Requirement - Students have two options to fulfill the Computer Science exit requirement:

1. Pass one of the Capstone Courses
2. Successfully complete a Senior Thesis.

Disciplinary Communication Requirement – Students have two options to fulfill the DC requirement:

1. Pass one of the Disciplinary Communication Courses
2. Successfully complete a Senior Thesis

Upper Division
ELECTIVE

Upper Division
ELECTIVE

Upper Division
ELECTIVE

Upper Division
ELECTIVE

Upper Division
ELECTIVE

CMPS 130
Computational Models (recommended)

or

Upper Division
CMPS ELECTIVE

Upper Division
CMPS ELECTIVE

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Computer Science B.S. Degree
2017-2018 Curriculum Chart

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**Notes:**
- All students admitted to a School of Engineering major, or seeking admission to a major, must take all courses required for that major for a letter grade.
- Courses in which you receive a grade of C-, D+, D, or D- earn credit toward graduation, but cannot be used to satisfy a major requirement or a general education requirement, and cannot satisfy a prerequisite for another course.
- Shaded boxes represent major qualification courses. The full major qualification requirements for this major can be found at: [https://ua.soe.ucsc.edu/major-qualification](https://ua.soe.ucsc.edu/major-qualification)
- Many graduate courses can also be used to satisfy electives; however, students will need instructor and department approval.
- Students may not receive credit for both AMS 131 and CMPE 107.
- The School of Engineering has different major declaration deadlines than the UCSC Academic/Administrative calendar. Our deadlines and process can be found on: [http://ua.soe.ucsc.edu/declare](http://ua.soe.ucsc.edu/declare)

* Course has additional prerequisites. Please consult UCSC General Catalog course descriptions.
** In order for these courses to satisfy the DC requirement, the W section must be completed.
♦ Enrollment restricted to majors in Computer Engineering, Electrical Engineering, Bioengineering, Bioinformatics, Robotics Engineering, or Network and Digital Technology, or by permission of instructor.
Ω Only one course (Math 23A or AMS 10/Math 21) is required as a pre-requisite for CMPS 101 but both Math 23A and either AMS 10 or Math 21 must be taken to fulfill the major requirements.

Student Name:

Staff Advisor Signature:

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