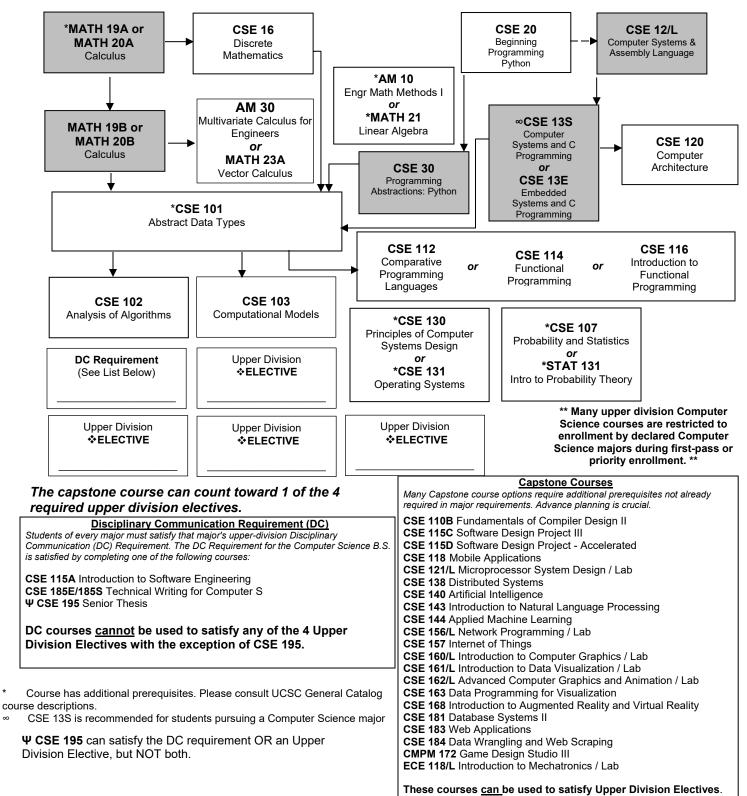
Computer Science B.S. Degree 2020-2021 Curriculum Chart



❖Upper Division Electives: 5 credit (or more than 5 credit) upper-division computer science or computer engineering (CSE) courses with a course number below 170, or between 180-189, or CSE 195, or courses from the Computational Media electives on the back of this chart. Up to two of these electives may be replaced by upper-division mathematics electives listed on the back. Courses from the Disciplinary Communication list cannot also be used to satisfy an Upper Division Elective

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.

<u>Disciplinary Communication Requirement</u> – Students have two options to fulfill the DC requirement:

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

Computer Science B.S. Degree 2020-2021 Curriculum Chart

Fall	Winter	Spring	Summer
Fall	Winter	Spring	Summer
Fall	Winter	Spring	Summer
Fall	Winter	Spring	Summer
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Mathematics Electives List			Computational Media Electives List
AM 114 Introduction to Dynamical Systems AM 147 Computational Methods and Applications MATH 110 Introduction to Number Theory MATH 115 Graph Theory MATH 116 Combinatorics MATH 117 Advanced Linear Algebra MATH 118 Advanced Number Theory MATH 134 Cryptography			CMPM 120 Game Development Experience CMPM 131 User Experience for Interactive Media CMPM 146 Game AI CMPM 163 Game Graphics and Real-Time Rendering CMPM 164/L Game Engines / Lab CMPM 171 Game Design Studio II CMPM 172 Game Design Studio III
MATH 145/L Introductory Chaos Theory / Lab MATH 145/L Introductory Chaos Theory / Lab MATH 148 Numerical Analysis MATH 160 Mathematical Logic I MATH 161 Mathematical Logic II One of the following combinations: [PHYS 5A and PHYS 5B] OR [PHYS 5A and PHYS 5C] OR [PHYS 6A and PHYS 6B] OR [PHYS 6A and PHYS 6C]*** STAT 132 Classical and Bayesian Inference			

- All courses being applied to requirements for the Computer Science major must be taken for a letter grade. Grades of P will not count toward major requirements.
- 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://undergrad.soe.ucsc.edu/major-qualification

- Many graduate courses can also be used to satisfy electives; however, students will need instructor and department approval.
- The School of Engineering has different major declaration deadlines than the UCSC Academic/Administrative calendar. Our deadlines and process can be found on: http://undergrad.soe.ucsc.edu/declare-your-major
- *** Physics courses have co-requisite labs required for enrollment. These associated labs are not part of the Computer Science B.S. major requirements.

Student Name:

Staff Advisor Signature: