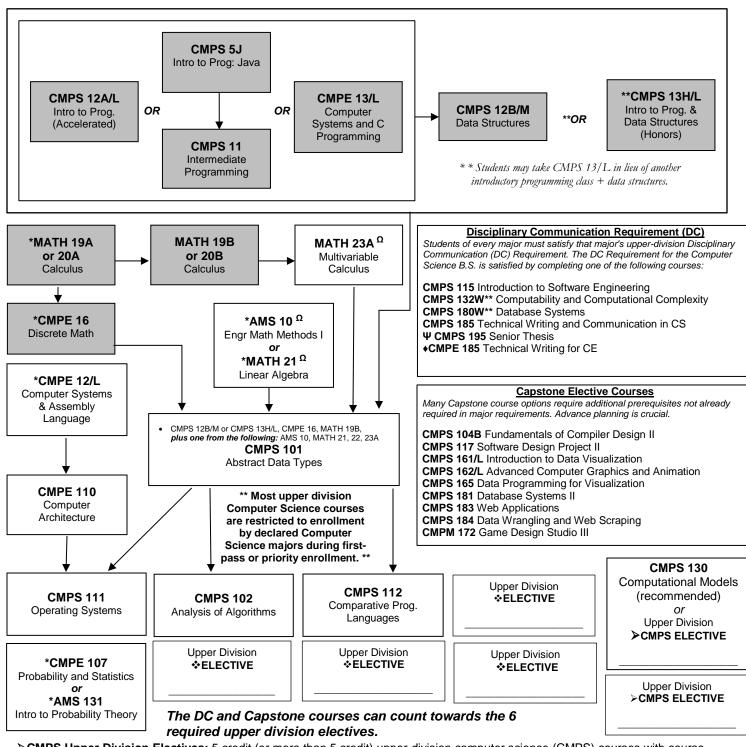
## Computer Science B.S. Degree 2017-2018 Curriculum Chart



**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.

**\*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 *two* of these electives may be replaced by upper-division mathematics electives listed on the back.

**<u>Comprehensive Requirement</u>** - 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

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

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer	
Mathematics Electives List		Computa	Computational Media Electives List	
AMS 114 Introduction to Dynamical Systems		CMPM 120 Game Dev	CMPM 120 Game Development Experience	
AMS 132 Classical and Bayesian Inference		CMPM 131 User Experience for Interactive Media		
AMS 147 Computational Methods and Applications		CMPM 146 Game Al		
MATH 115 Graph Theory			CMPM 164/L Game Engines Lab	
MATH 116 Combinatorics			CMPM 171 Game Design Studio II	
MATH 117 Advanced Linear Algebra		CMPM 172 Game Des	sign Studio III	
MATH 134 Cryptography				
MATH 148 Numerical Analysis				
MATH 160 Mathematical Logic I				
MATH 161 Mathematical Logic II				

## 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

- 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

- \* 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: