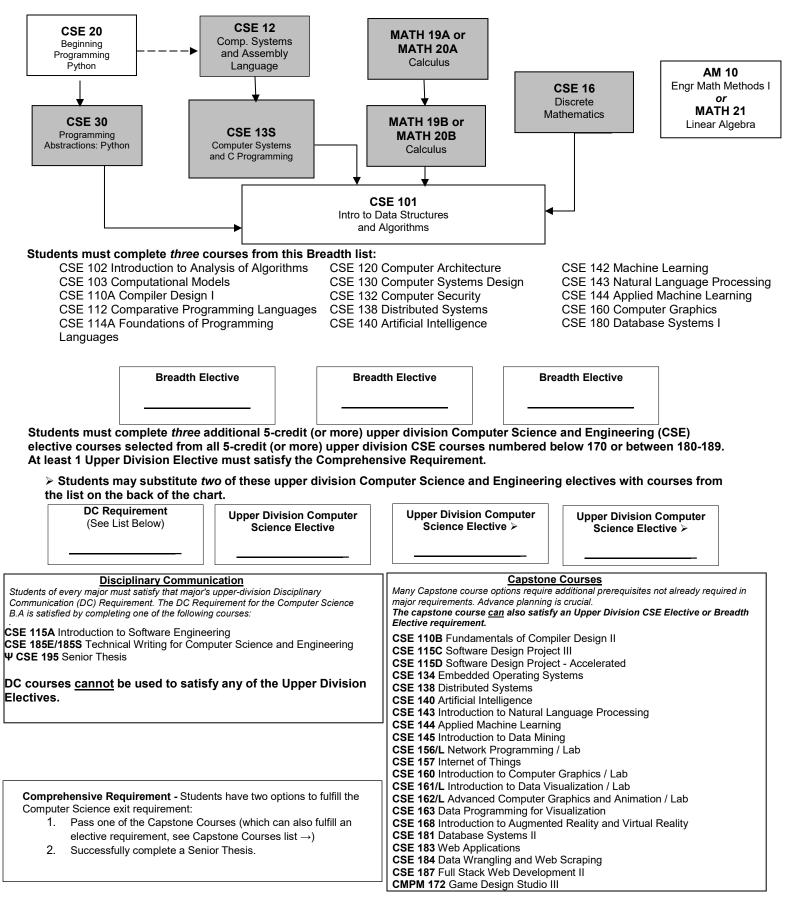
## Computer Science B.A. Degree 2022-2023 Curriculum Chart



## **Computer Science B.A. Degree** 2022-2023 Curriculum Chart

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

Fall	Winter	Spring	Summer

## Upper Division Elective List

Any 5-credit upper division course offered by Baskin Engineering except those numbered 191 through 194 and 196 through 199 and CSE courses numbered 185E, 185S, and 115A. (AM, CMPM, and STAT courses strongly recommended.)

◆ ARTG 118 Character Creation for Video Games

◆ EART 124 Modeling Earth's Climate

♦ EART 125 Statistics and Data Analysis in the Geosciences ◆ EART 172/OCEA 172 Geophysical Fluid Dynamics

◆ ECON 100M Intermediate Microeconomics, MathIntensive

◆ ECON 100N Intermediate Macroeconomics. MathIntensive

◆ ECON 101 Managerial Economics

◆ ENVS 115A/L Geographic Information Systems and Environmental Applications ◆ FILM 170A Fundamentals of Digital Media Production

◆ LING 112 Syntax I

◆ LING 113 Syntax II

◆ LING 118 Semantics III

◆ LING 125 Foundations of Linguistic Theory

♦ 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
- ◆ MATH 145/L Introductory Chaos Theory / Lab
- ◆ MATH 148 Numerical Analysis
- MATH 160 Mathematical Logic I
- ◆ MATH 161 Mathematical Logic II
- ◆ MUSC 123 Electronic Sound Synthesis
- ◆ MUSC 124 Intermediate Electronic Sound Synthesis
- MUSC 125 Advanced Electronic Sound Synthesis
- ◆ PHYS 115 Computational Physics

◆ PHYS 150 Quantum Computing

- All students admitted to a Baskin 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 foundation courses. Major qualification requirements for this major can be found at:

https://undergrad.soe.ucsc.edu/major-qualification-requirements

- Many graduate courses can also be used to satisfy electives; however, students will need instructor and department approval.

The Baskin Engineering major declaration process requires an earlier start than the deadline on the UCSC Academic/Administrative calendar. Our deadlines and process can be found on: