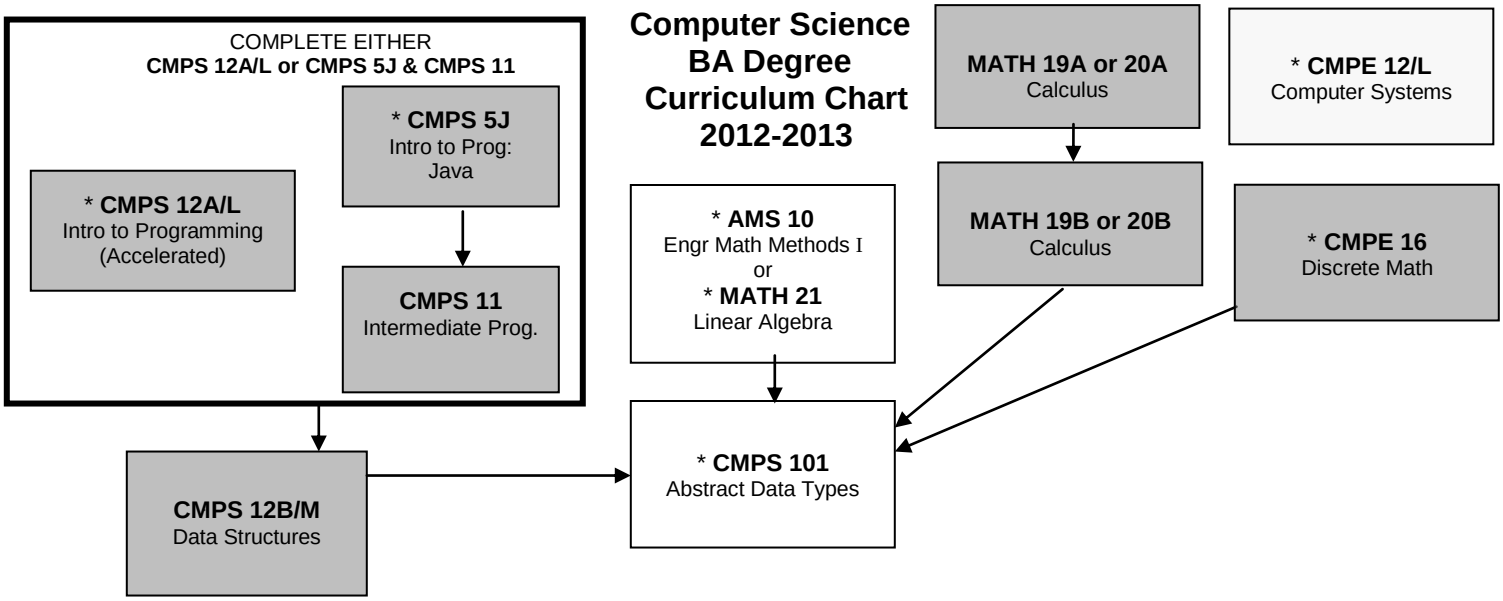
Computer Science BA Degree Curriculum Chart 2012-2013



1. **Students must complete 3 courses from this breadth list:**

CMPS 102 Introduction to Analysis of Algorithms	CMPS 122 Computer Security
CMPS 104A Compiler Design	CMPS 140 Artificial Intelligence
CMPS 111 Operating Systems	CMPS 160 Computer Graphics
CMPS 112 Comparative Programming Languages	CMPS 180 Database Systems
CMPS 115 Software Methodology	CMPE 110 Computer Architecture

2. **Students must complete 2 additional 5-unit (or more) upper division Computer Science courses selected from all upper division CMPS courses except those numbered 190 and above.**

3. **Students must complete 2 additional 5-unit (or more) upper division technical electives selected from the following:**

Any upper division BSOE courses except those numbered 190 and above.
Any upper division Physical and Biological Sciences Division except those numbered 190 and above.

ART 118 Computer Art: Theories, Methods, and Practices
ART 120/121 Advanced Projects in Computer Art I/II

ECON 100M Intermediate Microeconomics, Math Intensive
ECON 100N Intermediate Macroeconomics, Math Intensive
ECON 101 Managerial Economics

ENVS 115A/L Geographic Information Systems

FDM 170A Fundamentals of Introduction to Digital Media Production
FDM 177 Digital Media Workshop: Computer as Medium

LING 112/113/114 Syntax I/II/III
LING 116/118 Semantics II/III
LING 125 Foundations of Linguistic Theory

MUS 123 Electronic Sound Synthesis
MUS 124 Intermediate Electronic Sound Synthesis
MUS 125 Advanced Electronic Sound Synthesis

For additional choices for Technical Electives visit: http://ua.soe.ucsc.edu/cmpsBAtechnicalElectives

Exit Requirement - Students have three options to fulfill the Computer Science exit requirement:
1. Pass a Capstone Course (which can also fulfill an elective requirement, see ♣ on back for courses)
2. Receive a score of 600 or above on the GRE Computer Science Subject Test
3. Submit a Senior Thesis

● = Course Prerequisite
* = Check catalog/SOE course descriptions for additional prerequisites
♪ See reverse DC satisfying courses.
Shaded boxes represent foundation courses

COMPUTER SCIENCE BA
DEGREE CURRICULUM

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Disciplinary Communication

Count as upper division electives:
CMPS 115
CMPS132 & 132W
CMPS 180 &180W

Does not satisfy CS upper division elective:
CMPS 195
♦CMPE 185

Capstone Course
CMPS 104B ♣
CMPS 116 ♣
CMPS 161/L ♣
CMPS 181 ♣
CMPS 183 ♣

Many graduate courses can also be used to satisfy the electives; however students will need instructor and department approval.
♦= Enrollment restricted to majors in Computer Engineering, Electrical Engineering, Bioengineering, Bioinformatics, Robotics Engineering, or Network and Digital Technology, or by permission of instructor
♣ = Course Satisfies the CS Exit Requirement and an elective requirement

STUDENT'S NAME:

STAFF ADVISOR:

FACULTY ADVISOR