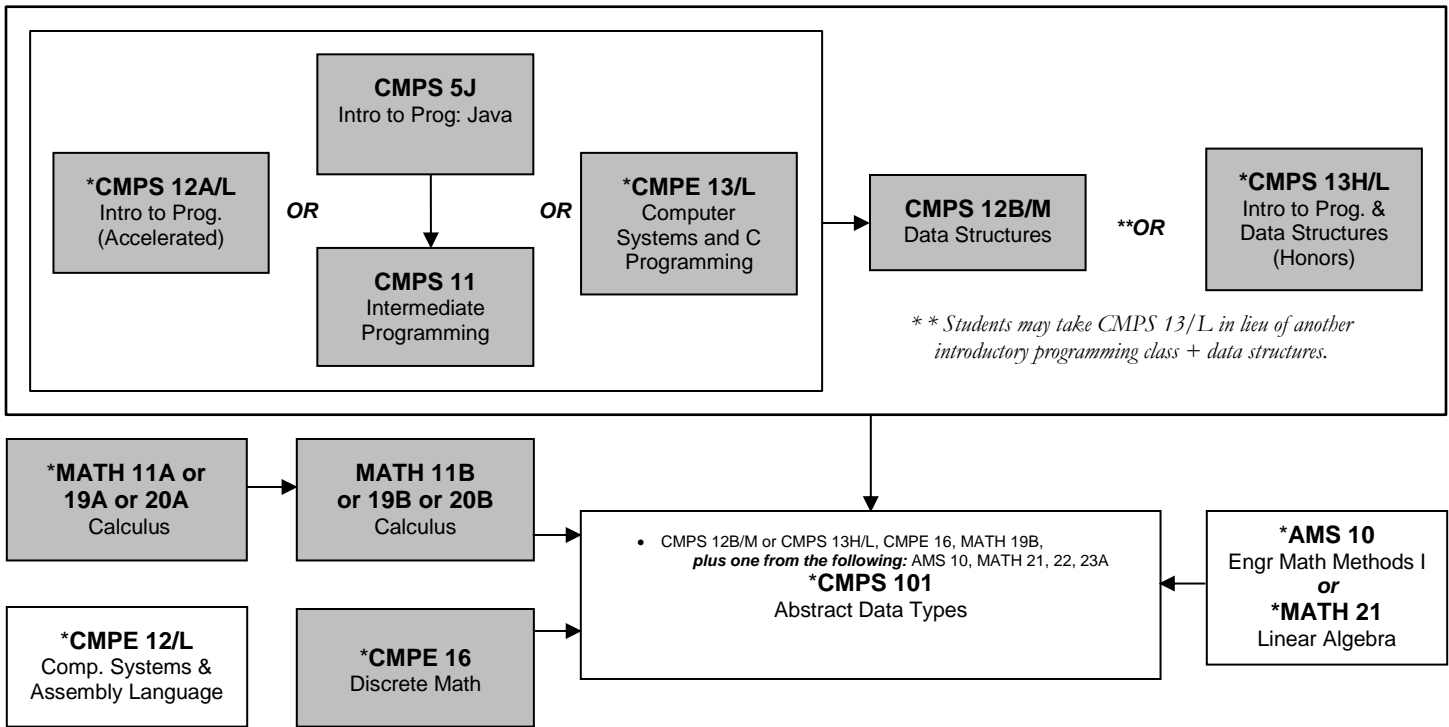


Computer Science B.A. Degree 2016-2017 Curriculum Chart



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

- | | |
|---|-------------------------------------|
| CMPE 110 Computer Architecture | CMPS 122 Computer Security |
| CMPS 102 Introduction to Analysis of Algorithms | CMPS 140 Artificial Intelligence |
| CMPS 104A Compiler Design | CMPS 142 Machine Learning |
| CMPS 111 Operating Systems | CMPS 160/L Computer Graphics |
| CMPS 112 Comparative Programming Languages | CMPS 180/CMPS 180W Database Systems |
| CMPS 115 Software Methodology | |

2. Students must complete *two* additional 5-unit (or more) upper division Computer Science courses selected from all upper division CMPS courses except those numbers 191-194 and 196-199.

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

Any 5-credit upper division course offered by the BSOE except those numbered 191 through 194 and 196 through 199.
Any 5-credit upper division course from the Division of Physical and Biological Sciences 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

Disciplinary Communication

The following courses also satisfy an upper division elective:

- CMPS 115
- CMPS 132 & 132W
- CMPS 180 & 180W
- CMPS 185
- CMPS 195
- ♦CMPE 185 (see back of the chart)

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

1. Pass one of the Capstone Courses (which can also fulfill an elective requirement, see ♣ on back for courses)
2. Successfully complete a Senior Thesis.

Computer Science B.A. Degree 2016-2017 Curriculum Chart

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Capstone Courses
CMPS 104B ♣
CMPS 117 ♣
CMPS 161/L ♣
CMPS 162/L ♣
CMPS 181 ♣

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 foundation courses. 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.
- 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 prerequisites.
 - * Check catalog/SOE course descriptions for additional prerequisites.
 - ◆ 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 Computer Science Comprehensive Requirement and an elective requirement.

Student Name: Staff Advisor: Faculty Advisor:
