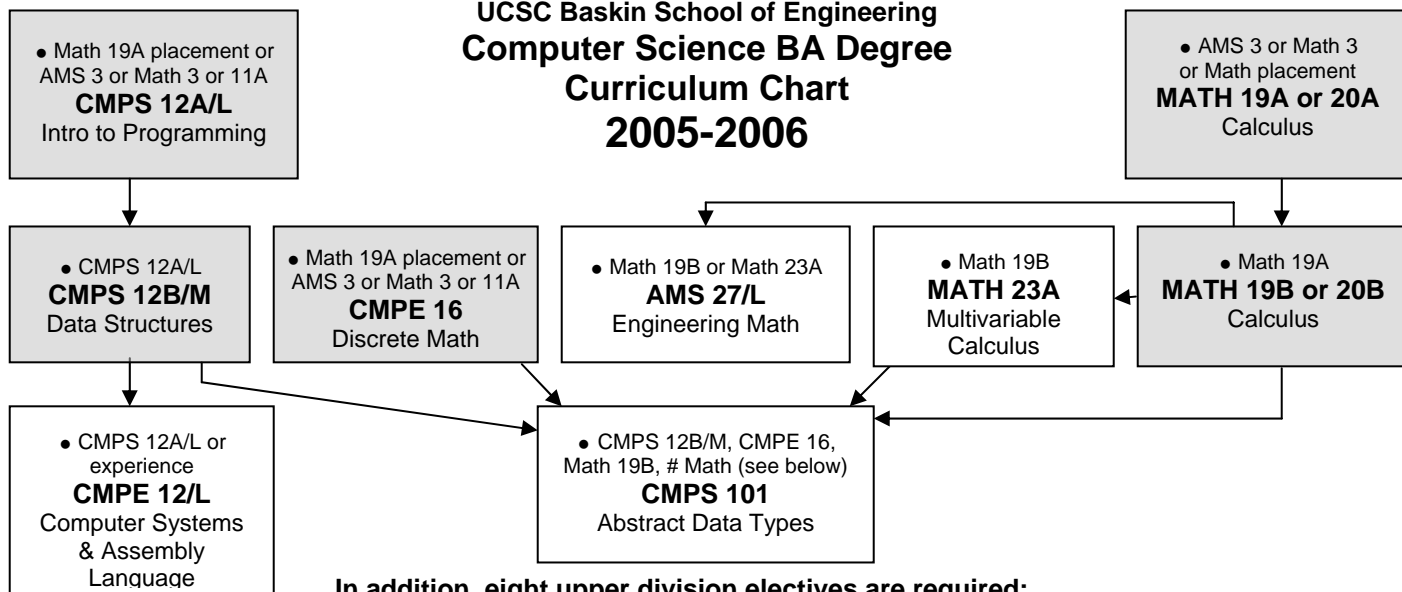


# UCSC Baskin School of Engineering Computer Science BA Degree Curriculum Chart 2005-2006



**In addition, eight upper division electives are required:**

- A) One upper division School of Engineering elective of your choice.
- B) Seven upper division courses from the Theory and Practice list as follows:
  - a) a minimum of 3 courses must be from the Theory List [T],
  - b) a minimum of 3 courses must be from the Practice List [P], and
  - c) they must include all 3 courses from one of the Depth Sequences listed below

Compilers & Lang. Theory	Oper. Syst. & Hardware	Theory	Graphics	Software Methodology	Databases
• CE 12/L, CS 101 <b>CMPS 104A [P]</b> Compiler Design I	• CMPE 12/L <b>CMPE 100/L [P]</b> Logic Design	• CMPS 101 <b>CMPS 102 [T]</b> Analysis of Algorithms	• CMPS 101, Math 21 or AMS 27/L <b>CMPS 160/L [P]</b> Intro to Computer Graphics	• CMPS 101 <b>CMPS 115 [P]</b> Software Methodology	• CMPS 101 <b>CMPS 180 [P]</b> Database Systems
• CMPS 104A <b>CMPS 112 [P]</b> Comp. Program. Languages	• CS 101, CE 110 <b>CMPS 111 [P]</b> Intro to Operating Systems	• CMPS 101 <b>CMPS 130 [T]</b> Computational Models	• CMPS 160 <b>CMPS 161/L* [P]</b> Visualization & Computer Animation	<b>And two of the following:</b> • CMPE 12/L, CMPS 101 <b>CMPS 104A [P]</b> Compiler Design I	• CMPS 180 <b>CMPS 181* [P]</b> Database Systems II
• CMPS 104A <b>CMPS 104B [P]</b> Compiler Design II or • CMPS 101 <b>CMPS 130 [T]</b> Computational Models	• CMPE 12/L, 16 <b>CMPE 110 [P]</b> Comp. Archit. or • CMPE 12/L, 100/L, & EE 70/L <b>CMPE 121/L [P]</b> Microproc. Sys. Design	• CMPS 130 <b>CMPS 132 [T]</b> Computability/Computational Complexity	• AMS 27/L or MATH 21 <b>AMS 147 [T]</b> Computational Methods & Applications	• CMPS 104A <b>CMPS 112 [P]</b> Comp. Prog. Langs. • CMPS 115 <b>CMPS 116* [P]</b> Software Design Project	• CMPS 180 <b>CMPS 183* [P]</b> Hypermedia and the Web
4. _____ [T]	4. _____ [T]	4. _____ [P]	4. _____ [T]	4. _____ [T]	4. _____ [T]
5. _____ [T]	5. _____ [T]	5. _____ [P]	5. _____ [T]	5. _____ [T]	5. _____ [T]
6. _____* [T/P]	6. _____ [T]	6. _____ [P]	6. _____ [P]	6. _____ [T]	6. _____ [T]
7. _____ [T/P]	7. _____ [T/P]	7. _____ [T/P]	7. _____ [T/P]	7. _____ [T/P]	7. _____ [T/P]
8. _____	8. _____	8. _____	8. _____	8. _____	8. _____

**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      ♣ = Satisfies Exit & Elective Requirement      # = Any 5-unit math course numbered in the 20s  
 \*Depends on choice      See reverse side for theory and practice lists.      Shaded boxes represent foundation courses

UCSC BASKIN SCHOOL OF ENGINEERING  
COMPUTER SCIENCE BA  
DEGREE CURRICULUM  
2005-2006

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

**Theory List**

AMS 131  
AMS 146  
AMS 147  
AMS 156  
AMS 162  
CMPE 107  
CMPE 108  
\*CMPE 154  
CMPE 177  
CMPS 102  
CMPS 130  
CMPS 132  
\*EE 103  
\*EE 153  
MATH 115  
MATH 117  
MATH 126  
MATH 148

**Practice List**

CMPE 100/L  
CMPE 110  
CMPE 113  
CMPE 117/L  
CMPE 118/L  
\*CMPE 121/L  
\*CMPE 123A & 123B  
\*CMPE 125/L  
\*CMPE 126/L  
CMPE 150  
\*CMPE 152  
\*CMPE 155/L  
\*CMPE 163/L  
CMPS 104A  
CMPS 104B  
CMPS 105  
CMPS 109 (as of '00-'01)

CMPS 111  
CMPS 112  
CMPS 115  
CMPS 116♣  
CMPS 122  
CMPS 128  
CMPS 129  
CMPS 140♣  
CMPS 160/L  
CMPS 161/L♣  
CMPS 180  
CMPS 181♣  
CMPS 183♣  
CMPS 190X  
CMPS 204  
\*EE 130/L

\*This course has pre-requisites that CS majors are not required to take in their regular course of study.

**NOTE:** Students may not receive credit for both AMS 131 and CMPE 107.

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

♣ = Course Satisfies the CS Exit Requirement and an elective requirement

**STUDENT'S NAME:**

**STAFF ADVISOR:**

**FACULTY ADVISOR:**