UCSC Baskin School of Engineering
Computer Science BS Degree
Curriculum Chart
2006-2007

Math 19A placement or AMS 3 or Math 11A or 3
CMPS 12A/L
Intro to Programming

CMPS 12A/L
CMPS 12B/M
Data Structures

CMPE 12/L
Computer Systems & Assembly Language

Math 19A placement or AMS 3 or Math 11A or 3
CMPS 16
Discrete Math

CMPS 12A/L
CMPS 16
CMPE 110
Computer Architecture

AMS 3 or Math 3
or Math placement
MATH 19A or 20A
Calculus

Math 19A
MATH 19B or 20B
Calculus

Math 19B
MATH 23A
Multivariable Calculus

Math 19B or Math
23A
AM 27/L
Engineering Math

CMPE 16, CMPS 12B/M,
Math 19B, # Math (see below)
CMPS 101
Abstract Data Types

CMPE 16, CMPS 12B/M,
CMPS 101, CMPS 110
CMPS 104A
CMPS 111
CMPS 112
CMPS 130

• CMPS 101
• CMPS 102
• CMPS 12/L, CMPS 101
• CMPS 104A
• CMPS 101, CMPS 110
• CMPS 104A
• CMPS 111
• CMPS 112
• CMPS 130

COMPLETE EITHER
2 PHYS & Labs
or
2 CHEM & Labs

• Chem 1A/L
CHEM 1B/1M
General Chemistry

• Chem 1B/M
CHEM 1C/1N
General Chemistry

Math 19A placement or
AMS 3 or Math 1
1A or 3
CMPS 12A/L
Intro to Programming

CMPS 12A/L
CMPS 12B/M
Data Structures

CMPE 12/L
Computer Systems & Assembly Language

Math 19A placement or
AMS 3 or Math 11A or 3
CMPS 16
Discrete Math

CMPS 12A/L
CMPS 16
CMPE 110
Computer Architecture

AMS 3 or Math 3
or Math placement
MATH 19A or 20A
Calculus

Math 19A
MATH 19B or 20B
Calculus

Math 19B
MATH 23A
Multivariable Calculus

Math 19B or Math
23A
AM 27/L
Engineering Math

CMPE 16, CMPS 12B/M,
Math 19B, # Math (see below)
CMPS 101
Abstract Data Types

CMPE 16, CMPS 12B/M,
CMPS 101, CMPS 110
CMPS 104A
CMPS 111
CMPS 112
CMPS 130

COMPLETE EITHER
2 PHYS & Labs
or
2 CHEM & Labs

• Chem 1A/L
CHEM 1B/1M
General Chemistry

• Chem 1B/M
CHEM 1C/1N
General Chemistry

Select 4 CMPE/CMPS electives from the Theory and Practice course lists.

At most, only one elective may be substituted by an upper-division Math course from the Theory course list.

Upper Division
ELECTIVE

Upper Division
ELECTIVE

Upper Division
ELECTIVE

Upper Division
ELECTIVE

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
** = Physics 5 series (intended for Physics majors) can be substituted
# = Any 5-unit math course numbered in the 20s

Shaded boxes represent foundation courses

www.soe.ucsc.edu/advising/undergraduate :: advising@soe.ucsc.edu :: (831) 459-5840 :: 9/25/2006
### Theory List

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<th>Course</th>
<th>Practice List</th>
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<td>AMS 146</td>
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<td>CMPS 102</td>
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</table>

*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: