Computer Science BS Degree
Curriculum Chart
2009-2010

COMPLETE EITHER
CMPS 12A/L or CMPS 5J & CMPS 11

* CMPS 12A/L
Intro to Programming (Accelerated)

* CMPS 5J
Intro to Prog: Java

CMPS 11
Intermediate Prog.

COMPLETE EITHER
2 PHYS & Labs or 2 CHEM & Labs

* MATH 19A or
20A
Calculus

MATH 19B or
20B
Calculus

* CHEM 1B/1M
Intro to Physics I

CHEM 1C/1N
General Chemistry

** PHYS 6A/6L
Intro to Physics I

PHYS 6B/6M
Intro to Physics II

OR

PHYS 6C/6N
Intro to Physics III

MATH 23
Multivariate
Calculus

CMPS 101
Abstract Data Type

* AMS 10
Engr Math Methods I

* MATH 21
Linear Algebra

* CMPE 16
Discrete Math

CMPE 110
Computer Architecture

CMPE 112
Computer & Game
Architecture

CMPS 102
Analysis of
Algorithms

CMPS 104A
Compiler Design I

CMPS 111
Operating Systems

CMPS 112
Comparative Programming
Languages

CMPS 130
Computational Models

Select 4 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.

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

Shaded boxes represent foundation courses

* = Check catalog and SoE prerequisite chart for additional prerequisites
** = Physics 5 series (intended for Physics majors) can be substituted

www.soe.ucsc.edu/advising/undergraduate :: advising@soe.ucsc.edu :: (831) 459-5840 :: 6/24/2009
COMPUTER SCIENCE BS
DEGREE CURRICULUM

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<th>Practice List</th>
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*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: