**Computer Science B.A. Degree Curriculum Chart: 2013-2014**

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

   - CMPS 102 Introduction to Analysis of Algorithms
   - CMPS 104A Compiler Design
   - CMPS 111 Operating Systems
   - CMPS 112 Comparative Programming Languages
   - CMPS 115 Software Methodology
   - CMPS 122 Computer Security
   - CMPS 140 Artificial Intelligence
   - CMPS 160 Computer Graphics
   - CMPS 180 Database Systems
   - 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 103 Physical Computing: Installation and Sculpture
   - 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 195
   - CMPE 185 (see back of chart)

**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

Shaded boxes represent foundation courses.

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

http://ua.soe.ucsc.edu • advising@soe.ucsc.edu • (831) 459-5840 • 03/13/2014
Computer Science B.A. Degree  
Curriculum Chart: 2013-2014

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### Capstone Course
- CMPS 104B 🔧
- CMPS 117 🔧
- CMPS 161/L 🔧
- CMPS 181 🔧
- CMPS 183 🔧

- 🔧 = Course Satisfies the CS Exit Requirement and an elective requirement
- 🔧 = Enrollment restricted to majors in Computer Engineering, Electrical Engineering, Bioengineering, Bioinformatics, Robotics Engineering, or Network and Digital Technology, or by permission of instructor.

**STUDENT'S NAME:**

**STAFF ADVISOR:**

**FACULTY ADVISOR**