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 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

For additional choices for Technical Electives visit: http://ua.soe.ucsc.edu/cmspsBAtechnicalElectives

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
♫ See reverse DC satisfying courses.
* = Check catalog/SOE course descriptions for additional prerequisites
Shaded boxes represent foundation courses
## COMPUTER SCIENCE BA
### DEGREE CURRICULUM

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Capstone Course
- CMPS 104B ♦
- CMPS 116 ♦
- CMPS 161/L ♦
- CMPS 181 ♦
- CMPS 183 ♦

### Disciplinary Communication
*Count as upper division electives:*
- CMPS 115
- CMPS 132 & 132W
- CMPS 180 & 180W

*Does not satisfy CS upper division elective:*
- CMPS 195
- CMPE 185

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

♦ = 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 CS Exit Requirement and an elective requirement

### STUDENT'S NAME:

### STAFF ADVISOR:

### FACULTY ADVISOR:

http://ua.soe.ucsc.edu :: advising@soe.ucsc.edu :: (831) 459-5840 :: 6/01/2011