1. Students must complete 3 courses from this breadth list:
   - CMPS 102 Introduction to Analysis of Algorithms
   - CMPS 104 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.

   ACT 118 Computer Art: Theories, Methods, and Practices
   ACT 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/cmpsBAtechnicalElectives

**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 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