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 130 Computer Systems & Assembly Language
   - CMPS 132 & 132W
   - CMPS 13H/L Intro to Prog. & Data Structures (Honors)
   - CMPS 140 Artificial Intelligence
   - CMPS 145 Computer Graphics
   - CMPS 160 Computer Graphics

2. Students must complete 2 additional 5-unit (or more) upper division Computer Science courses selected from all upper division CMPS courses except those numbers 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 I/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
   - MATH 11A or 19A or 20A Calculus
   - MATH 11B or 19B or 20B Calculus
   - MATH 115 Engr Math Methods I
   - MATH 12B/M or CMPS 13H/L Intro to Prog. & Data Structures (Honors)
   - MATH 19B
   - MATH 21

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

Disciplinary Communication
Can count as upper division electives:
CMPS 115
CMPS 132 & 132W
CMPS 180 & 180W
Does not count towards upper division electives:
CMPS 195
CMPE 185
Computer Science BA Degree  
Curriculum Chart: 2013-2014

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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