Computer Science B.A. Degree
2014-2015 Curriculum Chart

CMPS 12A/L
Intro to Prog. (Accelerated)

CMPS 13H/L
Intro to Prog. & Data Structures (Honors)

CMPS 12B/M
Data Structures

CMPS 12C

CMPS 12B/M or CMPS 13H/L, CMPE 16, MATH 19B, plus one from the following: AMS 10, 27, MATH 21, 22, 23A, 24

CMPS 101
Abstract Data Types

*CMPS 12A/L Intro to Prog. (Accelerated)

MATH 11B or 19B or 20B
Calculus

MATH 11B or 19B or 20B
Calculus

*MATH 11A or 19A or 20A
Calculus

CMPE 13/L
Intro to Prog. & Data Structures

CMPE 12/L
Comp. Systems & Assembly Language

CMPE 16
Discrete Math

*CMPE 16
Discrete Math

1. Students must complete three 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
   - CMPS 185 Technical Writing & Communication in Computer Science
   - CMPE 110 Computer Architecture

2. Students must complete two additional 5-unit (or more) upper division Computer Science courses selected from all upper division CMPS courses except those numbers 191-194 and 196-199.

3. Students must complete two additional 5-unit (or more) upper division technical electives selected from the following:
   - Any upper division BSOE courses except those numbered 191-194 and 196-199.
   - Any upper division Physical and Biological Sciences Division except those numbered 191-194 and 196-199.
   - 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

Disciplinary Communication

The following courses also satisfy an upper division elective:
   - CMPS 115
   - CMPS 132 & 132W
   - CMPS 180 & 180W
   - CMPS 185
   - CMPS 195
   - CMPE 185 (see back of chart)

Comprehensive Requirement - Students have two options to fulfill the Computer Science exit requirement:
   1. Pass one of the Capstone Courses (which can also fulfill an elective requirement, see ♦ on back for courses)
   2. Successfully complete a Senior Thesis.

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Computer Science B.A. Degree  
2014-2015 Curriculum Chart

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Capstone Courses

CMPS 104B ♦
CMPS 117 ♦
CMPS 161/L ♦
CMPS 181 ♦
CMPS 183 ♦

Notes:
- Shaded boxes represent foundation courses.
- Many graduate courses can also be used to satisfy electives; however, students will need instructor and department approval.

- Course prerequisites.
- Check catalog/SOE course descriptions for additional prerequisites.
♦ 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 Computer Science Comprehensive Requirement and an elective requirement.

Student Name:

Staff Advisor:

Faculty Advisor: