Network & Digital Technology B.A. Degree
2014-2015 Curriculum Chart

Math Courses

- **MATH 19A**
  - Calculus I

- **MATH 19B**
  - Calculus II

- **MATH 21**
  - Linear Algebra

- **MATH 22**
  - Linear Algebra for Engineers

- **MATH 23A**
  - Vector Calculus

- **AMS 10**
  - Engr. Math Methods I

- **AMS 20**
  - Engr. Math Methods II

- **MATH 24**
  - Differential Equations

* AMS 10 & 20 are strongly preferred. Students who complete Math 21 & 24 (or the equivalents) in lieu of AMS 10 & 20 are strongly encouraged to either take the MATLAB self-paced tutorial: [http://matlab-training.soe.ucsc.edu](http://matlab-training.soe.ucsc.edu), or CMPE 8, prior to enrolling into EE 101/L.

Science Courses

- **PHYS 5A/L or 6A/L**
  - Mechanics

- **PHYS 5C/N or 6C/N**
  - Electricity & Magnetism

Core Courses

- **CMPE 12/L**
  - Computer Systems & Assembly Lang.

- **CMPE 13/L**
  - Computer Systems & C Programming

- **CMPE 100/L**
  - Logic Design

- **CMPE 150/L**
  - Intro to Computer Networks

- **CMPS 101**
  - Algorithms & Abstract Data Types

- **CMPS 12B/M**
  - Data Structures

- **EE 101/L**
  - Electronic Circuits

- **CMPE 185#**
  - Technical Writing

Electives

Choose from Approved List of Upper Division Electives from the back.

1. ___________________________
2. ___________________________
3. ___________________________

Capstone

Students must pass one of the capstone courses (listed below), in addition to the three upper-division electives.

- **CMPS 115**
  - Software Engineering

- **CMPE 118/L**
  - Intro to Mechatronics

- **CMPE 125/L**
  - Logic Design with Verilog

- **CMPE 151/L**
  - Advanced Networks

- **CMPE 156/L**
  - Network Programming

Exit Requirements

1. Portfolio
   [https://www.soe.ucsc.edu/departments/computer-engineering/undergraduate/undergraduate-portfolio](https://www.soe.ucsc.edu/departments/computer-engineering/undergraduate/undergraduate-portfolio)

2. Exit Survey
   [https://ua.soe.ucsc.edu/exit-survey](https://ua.soe.ucsc.edu/exit-survey)
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2014-2015 Curriculum Chart

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Approved List of Upper Division Electives:

- **AMS 114**
- **AMS 118**
- **AMS 131**
- **AMS 147**
- **CMPE 107**
- **CMPE 108**
- **CMPE 110**
- **CMPE 113**
- **CMPE 115**
- **CMPE 118/L**
- **CMPE 121/L**
- **CMPE 122**
- **CMPS 102**
- **CMPS 104A**
- **CMPS 104B**
- **CMPS 109**
- **CMPS 111**
- **CMPS 112**
- **CMPS 121**
- **CMPS 122**
- **CMPS 128**
- **CMPS 129**
- **CMPS 130**
- **CMPS 140**
- **CMPS 142**
- **CMPS 146**
- **CMPS 160/L**
- **CMPS 161/L**
- **CMPS 190X**
- **EE 136**
- **EE 145/L**
- **EE 151**
- **EE 152**
- **EE 171/L**
- **EE 172**
- **EE 173/L**
- **EE 175/L**
- **TIM 206**
- **EE 103/L**
- **EE 130/L**
- **EE 135/L**

Notes:
- Requires prior approval and/or may depend on other courses completed.
- In addition to this list, any 5-unit CE, CS, or EE graduate course (200+) may also be used as an elective.
- At most, only one elective may be substituted by an upper-division individual or field study (CMPE, CMPS, EE 193 or 198) with approval.
- A single course may not satisfy multiple major requirements.

Student Name:

Staff Advisor:

Faculty Advisor: