Network & Digital Technology B.A. Degree
2018-2019 Curriculum Chart

Math Courses

MATH 19A
Calculus I

AMS 10*
Engr. Math Methods I

AMS 20*
Engr. Math Methods II

MATH 19B
Calculus II

or

MATH 21
Linear Algebra

or

MATH 24
Differential Equations

MATH 23A
Vector Calculus

CMPE 16
Discrete Math

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, 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

CMPS 12B/M
Data Structures

CMPE 100/L
Logic Design

CMPE 150/L
Intro to Computer Networks

CMPE 185#
Technical Writing

CMPS 101
Algorithms & Abstract Data Types

EE 101/L
Electronic Circuits

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

1. 

2. 

3. 

Capstone

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

CMPS 115
Software Engineering

CMPE 118/L
Intro to Mechatronics

CMPE 121/L
Microprocessor System Design

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
2. Exit Survey
   https://undergrad.soe.ucsc.edu/exit-survey

# Satisfies the DC requirement.
## Network & Digital Technology B.A. Degree

### 2018-2019 Curriculum Chart

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## Elective Choices

[https://undergrad.soe.ucsc.edu/curriculum-charts/ndt-electives](https://undergrad.soe.ucsc.edu/curriculum-charts/ndt-electives)

Students wishing to focus on digital technology should consider including among their courses: EE 101/L, CMPE 110, CMPE 118/L, CMPE 121/L, and CMPE 125/L.

Students wishing to focus on network technology should consider including among their courses: CMPS 101, CMPE 151/L, CMPE 156/L, and CMPS 111.

In all cases, students should discuss their interests and elective choices with a faculty adviser.

## Notes:

- The School of Engineering has different major declaration deadlines than the UCSC Academic/Administrative calendar. Our deadlines and process can be found on: [https://ua.soe.ucsc.edu/declare-your-major](https://ua.soe.ucsc.edu/declare-your-major)
- All students admitted to a School of Engineering major, or seeking admission to a major, must take all courses required for that major for a letter grade.
- Courses in which you receive a grade of C-, D+, D, or D- earn credit toward graduation, but cannot be used to satisfy a major requirement or a general education requirement, and cannot satisfy a prerequisite for another course.
- 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: