Network & Digital Technology B.A. Degree
2017-2018 Curriculum Chart

Math Courses

MATH 19A
Calculus I

MATH 19B
Calculus II

AMS 10*
Engr. Math Methods I

or

MATH 21
Linear Algebra

AMS 20*
Engr. Math Methods II

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

or

EE 101/L
Electronic Circuits

 # Satisfies the DC requirement.

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 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://ua.soe.ucsc.edu/exit-survey

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Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Elective Choices (we can also provide URL for list of approved electives for CMPE majors)

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**
- 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: