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

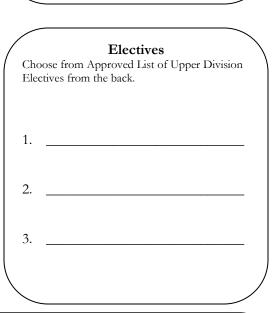
### **Math Courses** AMS 20\* AMS 10\* **MATH 19A** Engr. Math Methods Engr. Math Methods Calculus I or or **MATH 19B MATH 24** Calculus II **MATH 21** Differential Linear Algebra Equations MATH 23A **CMPE 16** Discrete Math Vector Calculus \* AMS 10 & 20 are strongly preferred. Students who complete Math 21 & 24 (or the

equivalents) in lieu of AMS 10 & 20 are strongly encouraged to either take the MATLAB self-paced tutorial: <a href="http://matlab-training.soe.ucsc.edu">http://matlab-training.soe.ucsc.edu</a>, or CMPE 8,

prior to enrolling into EE 101/L.

# PHYS 5A/L or 6A/L Mechanics PHYS 5C/N or 6C/N Electricity & Magnetism

### **Core Courses** CMPE 12/L CMPE 13/L CMPS 12B/M Computer Computer Systems & Systems & C **Data Structures** Assembly Lang. Programming **CMPE 150/L CMPE 100/L CMPE 185#** Intro to Computer Logic Design **Technical Writing** Networks **CMPS 101 EE 101/L** Algorithms & **Electronic Circuits** Abstract Data Types # Satisfies the DC requirement.



# 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 151/L Advanced Networks

# CMPE 121/L

Microprocessor System Design

CMPE 156/L Network Programming

# CMPE 125/L

Logic Design with Verilog

# **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

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

Fall	Winter	Spring	Summer
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Fall	Winter	Spring	Summer
Fall	Winter	Spring	Summer
		1 0	
Fall	Winter	Spring	Summer
		-1 0	

Elective Choices 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
- 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:	