Network & Digital Technology B.A. Degree
2014-2015 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 _____

Approved List of Upper Division Electives:

AMS 114	CMPE 125/L	CMPS 102	CMPS 140	EE 136
AMS 118	CMPE 131	CMPS 104A	CMPS 142	EE 145/L
AMS 131 ♦	CMPE 141/EE 154	CMPS 104B	CMPS 146	EE 151
AMS 147	CMPE 151/L	CMPS 109	CMPS 160/L	EE 152
CMPE 107	CMPE 153/ EE 153	CMPS 111	CMPS 161/L	EE 171/L
CMPE 108	CMPE 156/L	CMPS 112	CMPS 180	EE 172
CMPE 110	CMPE 161	CMPS 115	CMPS 181	EE 173/L
CMPE 113	CMPE 167/L	CMPS 121	CMPS 183	EE 175/L
CMPE 115	CMPE 177	CMPS 122	CMPS 190X	TIM 206
CMPE 118/L	CMPE 193 ♦	CMPS 128	EE 103/L	
CMPE 121/L	CMPE 198 ♦	CMPS 129	EE 130/L	
CMPE 122	CMPS 101 ♦	CMPS 130	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: