Computer Engineering B.S. Degree
2018-2019 Curriculum Chart

Math Courses
- MATH 19A Calculus I
- MATH 19B Calculus II
- MATH 23A Multivariable Calculus
- EE 103/L Signals & Systems
- AMS 10* Engr. Math Methods I
- AMS 20 Engr. Math Methods II
- CMPE 9* Statics, Dynamics, & Biomechanics
- CMPE 107 Probability & Statistics
* Strongly recommended

Science Courses
- PHYS 5A/L Mechanics
- PHYS 5B/M Waves & Optics or CMPE 9*
- PHYS 5C/N Electricity & Magnetism
* CMPE 9 is recommended for the Robotics & Control concentration

Core Courses
- CMPE 12/L Computer Systems & Assembly Lang.
- CMPE 121/L Microprocessor System Design
- CMPE 13/L Computer Systems & C Programming
- CMPE 100/L Logic Design
- CMPE 110 Computer Architecture
- CMPE 107 Probability & Statistics
# Satisfies the DC requirement

Concentrations (choose one)
- Systems Programming
  - CMPS 111 or CMPE 105
  - CMPS 109 or CMPS 115 or CMPE 114
  - CMPE 150/L
  One of the following:
  - CMPE 113
  - CMPE 156/L
  - CMPE 104A
- Robotics & Control
  - Two of the following:
    - CMPE 118/L
    - CMPE 141
    - CMPE 167/L
  - Third course from above or any course from Approved List on the UA website
- Computer Systems
  - CMPS 111 or CMPE 105
  - CMPE 125/L or CMPE 122***
- Networks
  - CMPS 111 or CMPE 105
  - CMPE 151/L Advanced Networks or Elective*
- Digital Hardware
  - CMPS 125/L
  - EE 171/L or CMPE 122***
  One of the following:
  - CMPE 122 (if not satisfied above)
  - EE 171/L (if not satisfied above)
  - EE 173/L**
  - CMPE 202
  - CMPE 222
  Elective*

Electives can be an upper division or graduate course from Approved List on the UA website
** EE 173 requires the prerequisite EE 174
*** CMPE 222 (with department approval)

Capstone (choose one option)
- CMPE 123A, 123B Capstone Project I & II
- CMPE 129A, 129B & 129C Capstone Project I, II, & III
- CMPS 115, 116, & 117 Software Capstone Project I, II, & III
- CMPE 195 Senior Thesis

Exit Requirements
1. Portfolio
2. Exit Survey
3. Exit Interview
See back for more info

https://undergrad.soe.ucsc.edu/ • advising@soe.ucsc.edu • (831) 459-5840 • 07/20/2018
## Computer Engineering B.S. Degree
### 2018-2019 Curriculum Chart

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### Approved List of Upper Division Electives
Please refer to the Undergraduate Advising website for the list of approved electives

### 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://undergrad.soe.ucsc.edu/exit-survey](https://undergrad.soe.ucsc.edu/exit-survey)
3. Exit Interview

### 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.

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**Student Name:**

**Staff Advisor:**

**Faculty Advisor:**

☐ I have discussed the BS/MS program with my advisor.