Computer Engineering B.S. Degree 2016-2017 Curriculum Chart

Math Courses Core Courses **CMPE 16 MATH 19A** CMPE 12/L **CMPE 121/L** CMPS 12B/M Calculus I Discrete Math Computer Microprocessor **Data Structures** Systems & System Design Assembly Lang. AMS 10* **MATH 19B CMPS 101** Engr. Math **CMPE 185 #** Calculus II CMPE 13/L Algorithms & Methods I **Technical Writing** Computer Abstract Data Systems & C Types **MATH 21** Programming **MATH 23A** Linear Algebra Multivariable **CMPE 110** Calculus EE 101/L **AMS 20** CMPE 100/L **Electronic Circuits** Computer Engr. Math Architecture Logic Design EE 103/L Methods II Signals & Systems **CMPE 107** Probability & * Strongly recommended Statistics

Science Courses

PHYS 5B/M

Waves & Optics

or
CMPE 9*
Statics, Dynamics, &

Biomechanics Robotics & Control concentration Concentrations (choose one) **Systems Programming** Networks Digital Hardware Robotics & Control Computer Systems **CMPS 111 CMPS 111** Two of the following: **CMPE 150/L CMPE 125/L Operating Systems** Operating Systems CMPE 118/L Intro to Comp. Networks Logic Design w/ Verilog **CMPE 141 CMPS 109 CMPE 125/L CMPE 167/L** Advanced Programming Logic Design w/ Verilog **CMPE 156/L** EE 171/L or or Analog Electronics Network Programming Third course from above **CMPE 122 CMPS 115** or an Software Engineering Intro to VLSI Digital Approved Robotics System Design One of the following: **CMPS 111** Elective (see back) **CMPE 150/L** Operating Systems **CMPE 122 CMPS 109** Intro to Comp. Networks CMPE 202 Advanced Programming **CMPE 222** or **CMPE 151/L** EE 173/L** One of the following: **CMPS 115** Advanced Networks CMPS 104A Software Engineering Elective* **CMPE 113** Elective* Elective* CMPE 156/L Elective* 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 129A, 129B, & 129C Capstone Project I, II, & III or

CMPS 115, 116, & 117 Software Capstone Project I, II, & III

Capstone

PHYS 5A/L

Mechanics

or CMPE 195: Senior Thesis & Submission of approved thesis

CMPE 129A

Exit Requirements

1. Portfolio

PHYS 5C/N

Electricity & Magnetism

* CMPE 9 is recommended for the

- Portfolio
 Exit Survey
- 3. Exit Interview

See back for more info

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Fall	Winter	Spring	Summer
Fall	Winter	Spring	Summer
Fall	Winter	Spring	Summer
Fall	Winter	Spring	Summer
oved List of Upper	Division Electives		
refer to the Undergrad	luate Advising website for the list o	f approved electives	
Requirements			
ortfolio	/departments/computer-engineering/u	ndergraduate/undergraduate-portfolio	
	/ ucparunchis/ computer-chyfficeillig/ u	nucieiauuaic/ unucieiauuaic-DOHIOHO	

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.

Student Name:	
Staff Advisor:	
Faculty Advisor:	
☐ I have discussed the BS/MS program with my advisor.	