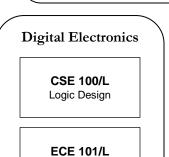
Robotics Engineering B.S. Degree 2019-2020 Curriculum Chart

Math Courses **Programming CSE 20 CSE 107 CSE 12/L MATH 19A CSE 16** Beginning Probability & Computer Systems Calculus I Discrete Math Programming in & Assembly Statistics Python Language **MATH 19B ECE 103/L** AM 10* Calculus II Signals & Engr. Math **CSE 30 CSE 13E** Systems Methods I Embedded Systems Programming Abstractions: Python & C Programming **MATH 23A MATH 21** Vector Linear Algebra Calculus or **AM 30 CSE 101** Multivariate **AM 20** Algorithms & Abstract Calculus for Engr. Math Data Types Engineers Methods II * Strongly recommended **Science Courses ECE 10** ECE 9 PHYS 5C/N PHYS 5A/L Fundamentals of Intro. to Statics, Electricity & Mechanics Dynamics & Robot Kinematics & Magnetism **Dynamics Biomechanics Digital Electronics Electives**



CSE 121/L Microprocessor System Design

Electronic Circuits

Robotics **ECE 118/L** Intro to Mechatronics

ECE 141 Feedback Control Systems

ECE 167/L Sensing & Sensor Technologies

Advanced Robotics Elective*

Elective**

- * Please refer to the UA website for the list of approved courses for the Adv. Robotics elective
- **Please refer to the UA website for the list of approved courses for this elective

Capstone (choose one option)

ECE 129A, 129B, & 129C Capstone Project I, II, & III

ECE 129A

CMPE 195: Senior Thesis (10 credits)

The Disciplinary Communication requirement (DC) is satisfied by completing one of the capstone options.

Exit Requirements

- 1. Portfolio https://www.soe.ucsc.edu/departments/computerengineering/undergraduate/undergraduate-portfolio Exit Survey https://ua.soe.ucsc.edu/exit-survey
- Exit Interview

Robotics Engineering B.S. Degree 2019-2020 Curriculum Chart

Fall	Winter	Spring	Summer
Fall	Winter	Spring	Summer
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Fall	Winter	Spring	Summer
Fall	Winter	Spring	Summer
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Non Advanced Robotics Engineering Electives: https://undergrad.soe.ucsc.edu/non-advanced-robotics-engineering-electives Advanced Robotics Electives: https://undergrad.soe.ucsc.edu/advanced-robotics-electives

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 CSE or ECE 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 (CSE, ECE 193 or 198) with approval
 from the undergraduate director.

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