Math Courses

**MATH 19A**  
Calculus I

**AM 10**  
Engr. Math Methods I

**AM 20**  
Engr. Math Methods II

**MATH 19B**  
Calculus II

**MATH 21**  
Linear Algebra

**MATH 24**  
Differential Equations

**MATH 23A**  
Vector Calculus

**AM 30**  
Multivariate Calculus for Engineers

*AM 10 & 20 are strongly preferred. Students who complete MATH 21 & MATH 24 (or the equivalents) in lieu of AM 10 & 20 are strongly encouraged to take the MATLAB self-paced tutorial: http://matlab-training.soe.ucsc.edu.

Science Courses

**PHYS 5A/L or 6A/L**  
Mechanics

**PHYS 5C/N or 6C/N**  
Electricity & Magnetism

Electives

Choose from Approved List of Upper Division Electives that can be found at:  

1. ____________________________
2. ____________________________
3. ____________________________

* Check catalog course descriptions for prerequisites

Core Courses

**CSE 20**  
Intro to Prog. Python

**CSE 12**  
Computer Systems & Assembly Lang.

**CSE 135 or ECE 13**  
Computer Systems & C Programming

**CSE 30**  
Prog. Abstractions: Python

**CSE 101**  
Introduction to Data Structures & Algorithms

**CSE 150**  
Intro to Computer Networks

**CSE 100/L**  
Logic Design

**ECE 101/L**  
Introduction to Electronic Circuits

**CSE 185E**  
Technical Writing for Computer Science and Engineering

* Satisfies the DC requirement.

Capstone

Students must pass one of the below capstone courses, in addition to the three upper-division electives.

**CSE 115A**  
Software Engineering

**ECE 118/L**  
Intro to Mechatronics

**CSE 121**  
Embedded System Design

**CSE 125**  
Logic Design with Verilog

**CSE 156/L**  
Network Programming

Students wishing to focus on digital technology should consider including among their courses: CSE 120, CSE 121, CSE 125, ECE 101/L, ECE 118

Students wishing to focus on network technology should consider including among their courses: CSE 101, CSE 130, CSE 151/L, and CSE 156/L

Notes:
- Baskin Engineering has different major declaration deadlines than the UCSC Academic/Administrative calendar. Our deadlines and process can be found on: https://undergrad.soe.ucsc.edu/current-students/declare-your-major
- All students admitted to a Baskin 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.
- At most, only one elective may be substituted by an upper-division individual or field study (CSE, ECE 193 or 198) with approval. Approval is determined by the department via Course Substitution Petition.
- A single course may not satisfy multiple major requirements.

Student Name:

Staff Advisor: