

**UNIVERSITY OF CALIFORNIA, SANTA CRUZ**  
**NEW STUDENT MAJOR ADVISING SUMMARY FOR 2018-2019 FROSH**

Students are admitted to UCSC with a "proposed major" in most cases, and later petition to officially declare the major. Admission to UCSC does not guarantee acceptance into a particular major. Students must be declared in a major by the end of the second year (or equivalent), so learning about and preparing for a major is a primary goal for first-year students.

**Major: COMPUTER ENGINEERING**

Importance of an early start:

This is a course-intensive and/or highly sequential program, and students who intend to pursue this major must begin taking classes for the major in their first term at UCSC.

Qualification requirements and/or prerequisites for the major:

Admission to this major is selective. In order to declare this major, students must meet the BSOE's Proposed Major Status policy. Students will be accepted to the major based on their grade point average in selected introductory courses.

Detailed information about admission to this major will be available to students in the 2018-2019 General Catalog and also on the BSOE Undergraduate Major Qualification website (<http://ua.soe.ucsc.edu/major-qualification/>) in the fall.

Frosh who intend to pursue this major should do the following things prior to the beginning of fall term...

- Attend summer orientation and review degree requirements.
- Determine your math placement by completing an assessment in ALEKS as soon as possible, and by July 16 at the very latest. See <https://mathcoach.sites.ucsc.edu> for information about ALEKS. If you completed a college-level math course, or scored 3 or better on an AP calculus exam, or 5 or better on an IBH mathematics exam, you may be able to use that for placement instead of the ALEKS assessment. See <https://mathcoach.sites.ucsc.edu/courses/course-credit/> for information on placement based on college courses or AP/IBH.
- Students with college-level transferable courses must mail or email a copy of the transcript to Baskin School of Engineering Undergraduate Advising by July 1, in addition to providing the official transcript to the UCSC Admissions Office.

...and should take these courses their first term:

**Depending on Math placement:**

**Option 1)**

- MATH 3: *Precalculus* or MATH 19A: *Calculus for Sci, Eng, Math AND*
- CMPE 12 and CMPE 12L *Computer Systems and Assembly Language/Lab* (programming exp. strongly recommended), **OR** CMPS 5J, *Intro. to Programming in Java* (if you have little or no programming exp.).

**Option 2)**

- MATH 19B: *Calculus for Sci, Eng, & Math AND*
- PHYS 5A and 5L: *Intro. to Physics I/Lab*

Skills important for success in this major:

Skills in mathematics, abstract thinking, attention to detail, logical reasoning, and an interest in how things work and making them work.

Other information:

Be sure to attend a BSOE orientation. Come to summer orientation, fall orientation during Fall Welcome Week, or both!

Links to More Information:

<http://admissions.ucsc.edu/academics/majors/> (general info)  
<http://registrar.ucsc.edu/catalog/programs-courses/> (major requirements, course descriptions, etc.)  
<https://www.soe.ucsc.edu/departments/computer-engineering/undergraduate/bs-computer-engineering> (program website)

Questions? Contact an Adviser!

Baskin School of Engineering Undergraduate Advising  
 459-5840 or [advising@soe.ucsc.edu](mailto:advising@soe.ucsc.edu)