

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: BIOCHEMISTRY AND MOLECULAR BIOLOGY B.S.

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: To qualify to declare students must achieve a cumulative GPA of 2.5 or greater in the following courses:

CHEM 1B: *General Chemistry*
CHEM 1C: *General Chemistry*
CHEM 8A: *Organic Chemistry*
BIOL 20A: *Cell and Molecular Biology*

and one of the following calculus courses

MATH 11A: *Calculus with Applications*
MATH 19A: *Calculus for Science, Engineering and Mathematics*

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

- ❑ 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 who have taken college-level transferable classes that may apply to the requirements of this major should submit an unofficial transcript to the department prior to July 1. This transcript is in addition to the official transcript that is required by the UCSC Admissions Office.

...and should take these courses their first term: The appropriate Mathematics class based on placement and Chemistry 1A or 1B

Sample first year plan:

Fall: MATH 11A: *Calculus*
CHEM 1A: *General Chemistry*

Winter: MATH 11B: *Calculus*
CHEM 1B/M: *General Chemistry* with lab

Spring: MATH 22: *Introduction To Calculus Of Several Variables*
CHEM 1C/N: *General Chemistry* with lab

Skills important for success in this major: Critical and logical thought, complex problem solving using scientific rules and methods, deductive and inductive reasoning.

Links to More Information: <http://admissions.ucsc.edu/academics/majors/> (general info)
<http://registrar.ucsc.edu/catalog/programs-courses/> (major requirements, course descriptions, etc.)
<http://www.chemistry.ucsc.edu/academics/undergraduates/> (program website)

Questions? Contact an Adviser! Justyn Vanderplas
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