

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Santa Cruz
2022-2023 General Catalog, Quarter

From: De Anza College
2022-2023 General Catalog, Quarter

Bioinformatics Minor

GENERAL INFORMATION FOR ALL MINORS

UC Santa Cruz students have the option to complete one or more minors, provided they complete all of the required coursework for the minor(s). The sponsoring department establishes the course requirements for a minor. The minor involves substantial work in the discipline and requires no fewer than 25 upper-division or graduate credits. The minor appears on the student's official transcript but not on the diploma.

Students do not apply for admission into a minor when applying to UC Santa Cruz. If interested in completing a minor, transfer students must contact the department sponsoring the minor after enrolling at UCSC.

BIOINFORMATICS MINOR

The bioinformatics minor is intended primarily for bioinformatics tool users who are majoring in a biological or chemical specialty. The bioinformatics minor is also appropriate for computer science or computer engineering majors who are considering graduate work in bioinformatics. The bioinformatics minor cannot be combined with the biomolecular engineering and bioinformatics major.

Please visit the department's website to learn more about this minor: <https://www.soe.ucsc.edu/departments/biomolecular-engineering>

PREPARATION FOR THE MINOR

BIOL 20A: Cell and Molecular Biology

CHEM 1A: General Chemistry

One of the following series:

MATH 19A: Calculus for Science, Engineering, and Mathematics **AND** MATH 19B: Calculus for Science, Engineering, and Mathematics

OR

MATH 11A: Calculus with Applications **AND** MATH 11B: Calculus with Applications

One of the following courses:

BME 80G/PHIL 80G: Bioethics in the 21st Century: Science, Business, and Society

BME 18: Scientific Principles of Life

PREPARATION FOR THE MINOR

BIOL 20A - Cell and Molecular Biology (5.00)



BIOL 6B - Cell and Molecular Biology (6.00)

CHEM 1A - General Chemistry (5.00)



CHEM 1A - General Chemistry (5.00)

--- And ---

CHEM 1B - General Chemistry (5.00)

--- And ---

CHEM 1C - General Chemistry and Qualitative Analysis (5.00)

--- Or ---

CHEM 1AH - General Chemistry - HONORS (5.00)

--- And ---

CHEM 1BH - General Chemistry - HONORS (5.00)

--- And ---

CHEM 1CH - General Chemistry and Qualitative Analysis - HONORS (5.00)

MATH 19A - Calculus for Science, Engineering, and Mathematics (5.00)

- *Preferred course*



MATH 1A - Calculus (5.00)

--- Or ---

MATH 1AH - Calculus - HONORS (5.00)

--- And ---

MATH 19B - Calculus for Science, Engineering, and Mathematics (5.00)

- *Preferred course*



MATH 1B - Calculus (5.00)

--- And ---

MATH 1C - Calculus (5.00)

--- Or ---

MATH 1BH - Calculus - HONORS (5.00)

--- And ---

MATH 1CH - Calculus - HONORS (5.00)

--- Or ---

MATH 11A - Calculus with Applications (5.00)



MATH 1A - Calculus (5.00)

--- Or ---

MATH 1AH - Calculus - HONORS (5.00)

--- And ---

MATH 11B - Calculus with Applications (5.00)



MATH 1B - Calculus (5.00)

--- And ---

MATH 1C - Calculus (5.00)

--- Or ---

MATH 1BH - Calculus - HONORS (5.00)

--- And ---

MATH 1CH - Calculus - HONORS (5.00)

BME 80G - Bioethics in the 21st Century: Science, Business, and Society (5.00)
Same-As: PHIL 80G



No Course Articulated

--- Or ---

BME 18 - Scientific Principles of Life (5.00)



No Course Articulated

END OF AGREEMENT