

# 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

## Science Education B.S.

### GENERAL INFORMATION FOR ALL MAJORS

All transfer applicants must satisfy University of California admissions eligibility requirements as well as meet campus selection criteria. All admission requirements must be completed by the end of spring prior to transfer. For more information on UC admissions eligibility requirements and admission to UC Santa Cruz, please visit the Admissions website:

<https://admissions.ucsc.edu/attend-ucsc/transfer-students>.

This articulation agreement lists course-to-course, sequence-to-sequence or requirement substitutions for preparation in the major. **Transfer students are strongly encouraged to complete as many major preparatory courses as possible prior to enrolling at UCSC. Completion of all major preparatory courses is not an admissions requirement, but some majors require certain courses to be completed prior to transfer with a specified GPA, and completion or near completion of major preparatory courses will help students move more efficiently toward graduation after transfer.**

UC Santa Cruz Advanced Placement (AP) and International Baccalaureate (IB) credit policies are detailed in the link below:

[UC Santa Cruz AP/IB Chart 2022-2023](#)

### SCIENCE EDUCATION B.S.

Please visit the department's website to learn more about this major: <https://www.physics.ucsc.edu>

#### ADMISSION SELECTION CRITERIA

To be considered for admission to the Science Education B.S. major, transfer students must complete six of the following courses or their equivalents by the end of spring term for students planning to enter in the fall, with a grade of C (2.0) or better in each course:

BIOE 20B: Development and Physiology

BIOE 20C: Ecology and Evolution

BIOL 20A: Cell and Molecular Biology

CHEM 1A: General Chemistry

CHEM 1B/1M: General Chemistry and General Chemistry Laboratory

CHEM 1C/1N: General Chemistry and General Chemistry Laboratory

MATH 11A: Calculus with Applications

MATH 11B: Calculus with Applications

PHYS 6A: Introductory Physics I

PHYS 6B: Introductory Physics II

PHYS 6C: Introductory Physics III

STAT 5: Statistics

In addition, students are strongly recommended to complete four additional courses from the above course list prior to transfer to ensure timely graduation.

Prospective students are encouraged to prioritize required and recommended major preparation, and may additionally complete courses that articulate to UC Santa Cruz general education requirements as time allows.

**THIS IS A SCREENING MAJOR.** For more information on screening major requirements please visit the admissions website: <https://admissions.ucsc.edu/posts/screening-major-selection-criteria>

### MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

**BIOL 20A** - Cell and Molecular Biology (5.00)

← **BIOL 6B** - Cell and Molecular Biology (6.00)

**BIOE 20B** - Development and Physiology (5.00)



**BIOL 6A** - Form and Function in the Biological World (6.00)

--- Or ---

**BIOL 6AH** - Form and Function in the Biological World - HONORS (6.00)

**BIOE 20C** - Ecology and Evolution (5.00)



**BIOL 6C** - Ecology and Evolution (6.00)

--- Or ---

**BIOL 6CH** - Ecology and Evolution - HONORS (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)

**CHEM 1B** - General Chemistry (5.00)

--- And ---

**CHEM 1M** - General Chemistry Laboratory (2.00)



**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)

**CHEM 1C** - General Chemistry (5.00)

--- And ---

**CHEM 1N** - General Chemistry Laboratory (2.00)



**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 11A** - Calculus with Applications (5.00)



**MATH 1A** - Calculus (5.00)

--- Or ---

**MATH 1AH** - Calculus - HONORS (5.00)

<b>MATH 11B</b> - Calculus with Applications (5.00)	←	<div> <b>MATH 1B</b> - Calculus (5.00)         </div> <div>           --- And ---         </div> <div> <b>MATH 1C</b> - Calculus (5.00)         </div> <div>           --- Or ---         </div> <div> <b>MATH 1BH</b> - Calculus - HONORS (5.00)         </div> <div>           --- And ---         </div> <div> <b>MATH 1CH</b> - Calculus - HONORS (5.00)         </div>
<b>PHYS 6A</b> - Introductory Physics I (5.00)	←	<b>PHYS 4A</b> - Physics for Scientists and Engineers: Mechanics (6.00) <div>             --- Or ---           </div> <b>PHYS 2A</b> - General Introductory Physics (5.00)
<b>PHYS 6B</b> - Introductory Physics II (5.00)	←	<b>PHYS 4C</b> - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00) <div>             --- Or ---           </div> <b>PHYS 2C</b> - General Introductory Physics (5.00)
<b>PHYS 6C</b> - Introductory Physics III (5.00)	←	<b>PHYS 4B</b> - Physics for Scientists and Engineers: Electricity and Magnetism (6.00) <div>             --- Or ---           </div> <b>PHYS 2B</b> - General Introductory Physics (5.00)
<b>STAT 5</b> - Statistics (5.00)	←	<b>MATH 10</b> - Introductory Statistics (5.00) <div>             --- Or ---           </div> <b>MATH 10H</b> - Introductory Statistics - HONORS (5.00) <div>             --- Or ---           </div> <b>PSYC 15</b> - Statistics and Research Methods in Social Science (4.00) Same-As: SOC 15 <div>             --- Or ---           </div> <b>SOC 15</b> - Statistics and Research Methods in Social Science (4.00) Same-As: PSYC 15

ADDITIONAL MAJOR PREPARATION COURSES

<b>ASTR 2</b> - Overview of the Universe (5.00)	←	No Course Articulated
<b>EDUC 50C</b> - CAL Teach 1: Science (2.00)	←	No Course Articulated
<b>MATH 22</b> - Introduction to Calculus of Several Variables (5.00)	←	<div> <b>MATH 1C</b> - Calculus (5.00)         </div> <div>           --- And ---         </div> <div> <b>MATH 1D</b> - Calculus (5.00)         </div> <div>           --- Or ---         </div> <div> <b>MATH 1CH</b> - Calculus - HONORS (5.00)         </div> <div>           --- And ---         </div> <div> <b>MATH 1DH</b> - Calculus - HONORS (5.00)         </div>

Select 1 Series from the following

<b>EART 5</b> - California Geology (5.00)	←	No Course Articulated
--- And ---		
<b>EART 5L</b> - California Geology Laboratory (1.00)	←	No Course Articulated
--- Or ---		
<b>EART 10</b> - Geologic Principles (5.00)	←	<b>GEOL 10</b> - Introductory Geology (5.00)
--- And ---		
<b>EART 10L</b> - Geologic Principles Laboratory (1.00)	←	<b>GEOL 10</b> - Introductory Geology (5.00)
--- Or ---		

**EART 20** - Environmental Geology (5.00)



No Course Articulated

--- And ---

**EART 20L** - Environmental Geology Laboratory (1.00)



No Course Articulated

**END OF AGREEMENT**