

# 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

## Marine Biology 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](#)

### MARINE BIOLOGY B.S.

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

#### ADMISSION SELECTION CRITERIA

To be considered for admission to the Marine Biology B.S. major, transfer students must pass equivalents of the following preparatory courses with a C (2.0) or better, by the end of spring term for students planning to enter in the fall:

BIOL 20A: Cell and Molecular Biology

BIOE 20B: Development and Physiology

BIOE 20C: Ecology and Evolution

CHEM 1A: General Chemistry

CHEM 1B: General Chemistry

#### Plus one of the following courses:

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

#### In addition, the following courses are strongly recommended prior to transfer to ensure timely graduation:

CHEM 1C: General Chemistry **AND** CHEM 1N: General Chemistry Laboratory

PHYS 6A: Introductory Physics I **AND** PHYS 6L: Introductory Physics I Laboratory

PHYS 6B: Introductory Physics II **AND** PHYS 6M: Introductory Physics II Laboratory **OR**

PHYS 6C: Introductory Physics III **AND** PHYS 6N: Introductory Physics III Laboratory

#### Plus one of the following:

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

**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)

<b>BIOE 20C</b> - Ecology and Evolution (5.00)	←	<b>BIOL 6C</b> - Ecology and Evolution (6.00) --- Or --- <b>BIOL 6CH</b> - Ecology and Evolution - HONORS (6.00)
<b>CHEM 1A</b> - General Chemistry (5.00)	←	<div> <b>CHEM 1A</b> - General Chemistry (5.00) --- And ---  <b>CHEM 1B</b> - General Chemistry (5.00) --- And ---  <b>CHEM 1C</b> - General Chemistry and Qualitative Analysis (5.00) </div> <div>--- Or ---</div> <div> <b>CHEM 1AH</b> - General Chemistry - HONORS (5.00) --- And ---  <b>CHEM 1BH</b> - General Chemistry - HONORS (5.00) --- And ---  <b>CHEM 1CH</b> - General Chemistry and Qualitative Analysis - HONORS (5.00) </div>
<b>CHEM 1B</b> - General Chemistry (5.00)	←	<div> <b>CHEM 1A</b> - General Chemistry (5.00) --- And ---  <b>CHEM 1B</b> - General Chemistry (5.00) --- And ---  <b>CHEM 1C</b> - General Chemistry and Qualitative Analysis (5.00) </div> <div>--- Or ---</div> <div> <b>CHEM 1AH</b> - General Chemistry - HONORS (5.00) --- And ---  <b>CHEM 1BH</b> - General Chemistry - HONORS (5.00) --- And ---  <b>CHEM 1CH</b> - General Chemistry and Qualitative Analysis - HONORS (5.00) </div>

Select 1 Course from the following

<b>MATH 11A</b> - Calculus with Applications (5.00)	←	<b>MATH 1A</b> - Calculus (5.00) --- Or --- <b>MATH 1AH</b> - Calculus - HONORS (5.00)
--- Or ---		
<b>MATH 19A</b> - Calculus for Science, Engineering, and Mathematics (5.00)	←	<b>MATH 1A</b> - Calculus (5.00) --- Or --- <b>MATH 1AH</b> - Calculus - HONORS (5.00)

STRONGLY RECOMMENDED ADVANCED PREPARATION COURSES

**CHEM 1C** - 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)

--- 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 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)

--- Or ---

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

**PHYS 6A** - Introductory Physics I (5.00)



**PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)

--- Or ---

**PHYS 2A** - General Introductory Physics (5.00)

--- And ---

**PHYS 6L** - Introductory Physics I Laboratory (1.00)



**PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)

--- Or ---

**PHYS 2A** - General Introductory Physics (5.00)

**PHYS 6B** - Introductory Physics II (5.00)



**PHYS 4C** - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)

--- Or ---

**PHYS 2C** - General Introductory Physics (5.00)

--- And ---

**PHYS 6M** - INTRODUCTORY PHYSICS II LABORATORY (1.00)



**PHYS 4C** - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)

--- Or ---

**PHYS 2C** - General Introductory Physics (5.00)

--- Or ---

**PHYS 6C** - Introductory Physics III (5.00)



**PHYS 4B** - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)

--- Or ---

**PHYS 2B** - General Introductory Physics (5.00)

--- And ---

**PHYS 6N** - INTRODUCTORY PHYSICS III LABORATORY (1.00)



**PHYS 4B** - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)

--- Or ---

**PHYS 2B** - General Introductory Physics (5.00)

## ADDITIONAL MAJOR PREPARATION COURSES

**STAT 7** - Statistical Methods for the Biological, Environmental, and Health Sciences (5.00)

--- And ---

**STAT 7L** - Statistical Methods for the Biological, Environmental, and Health Sciences Laboratory (2.00)



No Course Articulated

**END OF AGREEMENT**