

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

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](#)

BIOLOGY B.S.

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

ADMISSION SELECTION CRITERIA

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

CHEM 1A: General Chemistry

CHEM 1B: General Chemistry

CHEM 1C: General Chemistry

CHEM 8A: Organic Chemistry

BIOL 20A: Cell and Molecular Biology

BIOE 20B: Development and Physiology

Plus one of the following options:

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

In addition to the coursework required for admission, the following courses are strongly recommended prior to transfer to ensure timely graduation:

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

STAT 5: Statistics **OR** STAT 7/7L: Statistical Methods for the Biological, Environmental, and Health Sciences and Statistical Methods for the Biological, Environmental, and Health Sciences Laboratory

CHEM 8B: Organic Chemistry **AND** CHEM 8L: Organic Chemistry Laboratory

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

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)



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)



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 8A - Organic Chemistry (5.00)



CHEM 12A - Organic Chemistry (5.00)

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)

MATH 11A - Calculus with Applications (5.00)



MATH 1A - Calculus (5.00)

--- Or ---

MATH 1AH - Calculus - HONORS (5.00)

--- Or ---

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



MATH 1A - Calculus (5.00)

--- Or ---

MATH 1AH - Calculus - HONORS (5.00)

STRONGLY RECOMMENDED ADVANCED PREPARATION COURSES

MATH 11B - Calculus with Applications (5.00)	<div>←</div> <div> MATH 1B - Calculus (5.00) </div> <div> --- And --- </div> <div> MATH 1C - Calculus (5.00) </div> <div> --- Or --- </div> <div> MATH 1BH - Calculus - HONORS (5.00) </div> <div> --- And --- </div> <div> MATH 1CH - Calculus - HONORS (5.00) </div>
--- Or ---	
MATH 19B - Calculus for Science, Engineering, and Mathematics (5.00)	<div>←</div> <div> MATH 1B - Calculus (5.00) </div> <div> --- And --- </div> <div> MATH 1C - Calculus (5.00) </div> <div> --- Or --- </div> <div> MATH 1BH - Calculus - HONORS (5.00) </div> <div> --- And --- </div> <div> MATH 1CH - Calculus - HONORS (5.00) </div>
STAT 5 - Statistics (5.00)	<div>←</div> <div> MATH 10 - Introductory Statistics (5.00) </div> <div> --- Or --- </div> <div> MATH 10H - Introductory Statistics - HONORS (5.00) </div> <div> --- Or --- </div> <div> PSYC 15 - Statistics and Research Methods in Social Science (4.00) Same-As: SOC 15 </div> <div> --- Or --- </div> <div> SOC 15 - Statistics and Research Methods in Social Science (4.00) Same-As: PSYC 15 </div>
--- Or ---	
<div> STAT 7 - Statistical Methods for the Biological, Environmental, and Health Sciences (5.00) </div> <div> --- And --- </div> <div> STAT 7L - Statistical Methods for the Biological, Environmental, and Health Sciences Laboratory (2.00) </div>	<div>←</div> <div> No Course Articulated </div>
CHEM 8B - Organic Chemistry (5.00)	<div>←</div> <div> CHEM 12B - Organic Chemistry (5.00) </div>
--- And ---	
CHEM 8L - Organic Chemistry Laboratory (2.00)	<div>←</div> <div> CHEM 12A - Organic Chemistry (5.00) </div>

ADDITIONAL MAJOR PREPARATION COURSES

CHEM 1M - General Chemistry Laboratory (2.00)	←	<div> CHEM 1A - General Chemistry (5.00) <div>--- And ---</div> CHEM 1B - General Chemistry (5.00) <div>--- And ---</div> CHEM 1C - General Chemistry and Qualitative Analysis (5.00) </div> <div>--- Or ---</div> <div> CHEM 1AH - General Chemistry - HONORS (5.00) <div>--- And ---</div> CHEM 1BH - General Chemistry - HONORS (5.00) <div>--- And ---</div> CHEM 1CH - General Chemistry and Qualitative Analysis - HONORS (5.00) </div>
CHEM 1N - General Chemistry Laboratory (2.00)	←	<div> CHEM 1A - General Chemistry (5.00) <div>--- And ---</div> CHEM 1B - General Chemistry (5.00) <div>--- And ---</div> CHEM 1C - General Chemistry and Qualitative Analysis (5.00) </div> <div>--- Or ---</div> <div> CHEM 1AH - General Chemistry - HONORS (5.00) <div>--- And ---</div> CHEM 1BH - General Chemistry - HONORS (5.00) <div>--- And ---</div> CHEM 1CH - General Chemistry and Qualitative Analysis - HONORS (5.00) </div>

PHYS 6A - Introductory Physics I (5.00)	←	<div> PHYS 4A - Physics for Scientists and Engineers: Mechanics (6.00) <div>--- Or ---</div> PHYS 2A - General Introductory Physics (5.00) </div>
<div>--- And ---</div>		
PHYS 6L - Introductory Physics I Laboratory (1.00)	←	<div> PHYS 4A - Physics for Scientists and Engineers: Mechanics (6.00) <div>--- Or ---</div> PHYS 2A - General Introductory Physics (5.00) </div>
<div>--- And ---</div>		
PHYS 6B - Introductory Physics II (5.00)	←	<div> PHYS 4C - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00) <div>--- Or ---</div> PHYS 2C - General Introductory Physics (5.00) </div>
<div>--- Or ---</div>		
PHYS 6C - Introductory Physics III (5.00)	←	<div> PHYS 4B - Physics for Scientists and Engineers: Electricity and Magnetism (6.00) <div>--- Or ---</div> PHYS 2B - General Introductory Physics (5.00) </div>
<div>--- Or ---</div>		

<div> PHYS 7A - Elementary Physics I (5.00) <div>--- And ---</div> PHYS 6L - Introductory Physics I Laboratory (1.00) </div>	← No Course Articulated
<div>--- And ---</div>	



END OF AGREEMENT