

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

Molecular, Cell, and Developmental 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](#)

MOLECULAR, CELL, AND DEVELOPMENTAL BIOLOGY B.S.

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

ADMISSION SELECTION CRITERIA

To be considered for admission to the Molecular, Cell, and Developmental Biology B.S. major, transfer students must complete courses equivalent to the following 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:

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

*BIOL 20L: Experimental Biology Laboratory

Plus one of the following courses:

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

*BIOL 20L is not required for students who have completed BIOL 20A and BIOE 20B at California Community Colleges.

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

One of the following courses:

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

Plus one of the following options:

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

Plus both of the following courses:

CHEM 8B: Organic Chemistry

CHEM 8L: Organic Chemistry Laboratory

Prospective students are encouraged to prioritize required and recommended transfer preparation, and may additionally complete courses articulated 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:

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

CHEM 1A - General Chemistry (5.00) <div>--- And ---</div> CHEM 1B - General Chemistry (5.00) <div>--- And ---</div> CHEM 1C - General Chemistry (5.00) <div>--- And ---</div> CHEM 1M - General Chemistry Laboratory (2.00) <div>--- And ---</div> CHEM 1N - General Chemistry Laboratory (2.00)	←	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>--- Or ---</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)
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) <div>--- Or ---</div> BIOL 6AH - Form and Function in the Biological World - HONORS (6.00)
BIOL 20L - Experimental Biology Laboratory (2.00) • <i>Petition department after transfer</i>	←	No Course Articulated
MATH 11A - Calculus with Applications (5.00)	←	MATH 1A - Calculus (5.00) <div>--- Or ---</div> MATH 1AH - Calculus - HONORS (5.00)
MATH 19A - Calculus for Science, Engineering, and Mathematics (5.00)	←	MATH 1A - Calculus (5.00) <div>--- Or ---</div> MATH 1AH - Calculus - HONORS (5.00)

STRONGLY RECOMMENDED ADVANCED PREPARATION COURSES

MATH 11B - Calculus with Applications (5.00)	←	MATH 1B - Calculus (5.00) <div>--- And ---</div> MATH 1C - Calculus (5.00) <div>--- Or ---</div> MATH 1BH - Calculus - HONORS (5.00) <div>--- And ---</div> MATH 1CH - Calculus - HONORS (5.00)
MATH 19B - Calculus for Science, Engineering, and Mathematics (5.00)	←	MATH 1B - Calculus (5.00) <div>--- And ---</div> MATH 1C - Calculus (5.00) <div>--- Or ---</div> MATH 1BH - Calculus - HONORS (5.00) <div>--- And ---</div> MATH 1CH - Calculus - HONORS (5.00)

STAT 5 - Statistics (5.00)	<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>← No Course Articulated</div>

CHEM 8B - Organic Chemistry (5.00)	<div>← CHEM 12B - Organic Chemistry (5.00)</div>
--- And ---	
CHEM 8L - Organic Chemistry Laboratory (2.00)	<div>← CHEM 12A - Organic Chemistry (5.00)</div>

END OF AGREEMENT