

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

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

Systems & Synthetic Biology B.S.

INFORMATION AND ADVISORIES

Special Advising Note:

Transfer students are strongly advised to complete as many preparatory courses as possible for their major before enrolling at UC Davis. Preparing well for the major helps students move efficiently toward graduation and significantly reduces time to degree.

Transfer students also must meet UC transfer admission requirements. UC Davis requires that students complete the minimum transfer admission requirements by the end of Spring term prior to Fall enrollment. See the [UC Davis Transfer Admission website](#). In order to receive priority consideration it is strongly recommended that transfer students complete UC transfer admission requirements in English and Mathematics by the end of Fall term prior to enrollment.

REQUIREMENTS FOR ADMISSION:

The Systems & Synthetic Biology major is selective and requires preparatory coursework for admission. Any required courses that are offered at your current campus must be completed by the close of Spring term prior to Fall enrollment at UC Davis. If required courses are not offered at your college, you must complete them after enrolling at UC Davis.

Transfer students must earn an overall transfer GPA of 2.80 or higher to be competitive candidates for admission to this major. Candidates must complete courses comparable to the following UC Davis courses with a GPA of at least 2.50 for each of the three course groups. It is recommended that candidates have already achieved the minimum required GPAs for the courses in the groups below that have been completed by the time of application and maintain them through the transfer academic update filing period. Courses must be taken for a letter grade, with no grade less than C. (Advanced Placement (AP) or International Baccalaureate (IB) Higher Level examinations may satisfy UC Davis course equivalents).

-Biological Sciences 002A/B/C (if only one Biological Science course is completed at the time of TAG, you must have a B- or higher)

-Chemistry 002A/B/C

-Mathematics 017A/B/C or 021A/B

It is also recommended that transfer students complete courses comparable to the following UC Davis courses. Completion of these courses will help you move more efficiently toward graduation. Courses should be taken for a letter grade, with no grade less than C:

-Organic Chemistry 008A/B or 118A/B/C

-Physics 007A/B/C

Transfer Admission Guarantee (TAG) Note:

GPA and other requirements to obtain a UC Davis TAG may differ from those stated here for general transfer admission to the major. Visit <http://tag.ucdavis.edu> for details regarding UC Davis TAG.

Intersegmental General Education Transfer Curriculum (IGETC)/UC Davis General Education (GE) Note:

Students have two choices for selection of a GE pattern: IGETC or UC Davis GE. IGETC is available only at California Community Colleges and works well for students planning to complete undergraduate degrees at UC Davis. See additional details about IGETC in ASSIST. UC Davis accepts partial IGETC certification and IGETC for STEM. Students not planning to complete IGETC should see important information about the UC Davis GE pattern. Students not planning to complete IGETC should contact the Dean's Office of your undergraduate college at UC Davis who determines whether you have satisfied the GE requirement. See a UC Davis academic advisor to understand how to complete all of the GE components.

College Foreign Language Requirement Note:

There is no foreign language requirement for the BS degree.

Advanced Placement (AP) and International Baccalaureate (IB) Examination Note:

AP and IB examination credit policies are detailed in the UC Davis [General Catalog](#). Quick reference charts for AP and IB are also available [here](#).

MAJOR PREPARATION

- Please carefully review Information and Advisories and Course Articulation Details.

COURSE ARTICULATION DETAILS

- **Important note:** Due to the limitations of the ASSIST platform at this time, it is important to view both the department and major agreements for a complete picture of the articulation arrangements. [Please refer to the appropriate department agreements in conjunction with the major agreement below.](#)
- Please check the UC Transferability Lists on ASSIST for information on any credit limitations.
- **Attention:** Articulation agreements are California Community College *specific*. Lower division courses that are taken at multiple California Community Colleges, including those from a shared district, may articulate differently from what is indicated in the department or major agreements. It is recommended that series courses be completed at the same California Community College. Please contact your California Community College counselor for more information.

PREPARATION COURSES FOR THE MAJOR

Select courses in consultation with an advisor
Highly recommended to complete the entire series
Complete entire sequence at same institution prior to transfer

If the entire sequence is not completed prior to transfer, students must consult an advisor prior to enrollment

BIS 002A - Introduction to Biology: Essentials of Life on Earth (5.00)	←	BIOL 6B - Cell and Molecular Biology (6.00)
BIS 002B - Introduction to Biology: Principles of Ecology & Evolution (5.00)	←	BIOL 6C - Ecology and Evolution (6.00) --- Or --- BIOL 6CH - Ecology and Evolution - HONORS (6.00)
BIS 002C - Introduction to Biology: Biodiversity & the Tree of Life (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)

BIS 015L - Introduction to Data Science for Biologists (2.00)	←	No Course Articulated
--	---	-----------------------

Select 1 Series from the following

Select courses in consultation with an advisor
Highly recommended to complete the entire series

Complete entire sequence at same institution prior to transfer

If the entire sequence is not completed prior to transfer, students must consult an advisor prior to enrollment

CHE 002A - General Chemistry (5.00)	←	CHEM 1A - General Chemistry (5.00) <ul style="list-style-type: none"> Effective next fall, this articulation will be revised --- Or --- CHEM 1AH - General Chemistry - HONORS (5.00) <ul style="list-style-type: none"> Course is articulated in more than one agreement but credit can only apply to one Effective next fall, this articulation will be revised
CHE 002B - General Chemistry (5.00)	←	CHEM 1B - General Chemistry (5.00) <ul style="list-style-type: none"> Effective next fall, this articulation will be revised --- Or --- CHEM 1BH - General Chemistry - HONORS (5.00) <ul style="list-style-type: none"> Course is articulated in more than one agreement but credit can only apply to one Effective next fall, this articulation will be revised
CHE 002C - General Chemistry (5.00)	←	CHEM 1C - General Chemistry and Qualitative Analysis (5.00) --- Or --- CHEM 1CH - General Chemistry and Qualitative Analysis - HONORS (5.00) <ul style="list-style-type: none"> Course is articulated in more than one agreement but credit can only apply to one

--- Or ---

CHE 004A - General Chemistry for the Physical Sciences & Engineering (5.00)	←	CHEM 1AH - General Chemistry - HONORS (5.00) <ul style="list-style-type: none"> Course is articulated in more than one agreement but credit can only apply to one
--	---	---

CHE 004B - General Chemistry for the Physical Sciences & Engineering (5.00)	←	CHEM 1BH - General Chemistry - HONORS (5.00) <ul style="list-style-type: none"> Course is articulated in more than one agreement but credit can only apply to one
CHE 004C - General Chemistry for the Physical Sciences & Engineering (5.00)	←	CHEM 1CH - General Chemistry and Qualitative Analysis - HONORS (5.00) <ul style="list-style-type: none"> Course is articulated in more than one agreement but credit can only apply to one

Select 1 Series from the following		
Select courses in consultation with an advisor		
Highly recommended to complete the entire series		
Complete entire sequence at same institution prior to transfer		
If the entire sequence is not completed prior to transfer, students must consult an advisor prior to enrollment		
CHE 008A - Organic Chemistry: Brief Course (2.00)	←	No Course Articulated
CHE 008B - Organic Chemistry: Brief Course (4.00)	←	No Course Articulated

--- Or ---		
CHE 118A - Organic Chemistry for Health & Life Sciences (4.00)	←	CHEM 12A - Organic Chemistry (5.00) <ul style="list-style-type: none"> Articulation applies to one series only, or one series plus labs Lower division credit only
CHE 118B - Organic Chemistry for Health & Life Sciences (4.00)	←	CHEM 12B - Organic Chemistry (5.00) <ul style="list-style-type: none"> Articulation applies to one series only, or one series plus labs Lower division credit only
CHE 118C - Organic Chemistry for Health & Life Sciences (4.00)	←	CHEM 12C - Organic Chemistry (5.00) <ul style="list-style-type: none"> Articulation applies to one series only, or one series plus labs Lower division credit only

Select 1 Series from the following		
Select courses in consultation with an advisor		
Highly recommended to complete the entire series		
Complete entire sequence at same institution prior to transfer		
If the entire sequence is not completed prior to transfer, students must consult an advisor prior to enrollment		
MAT 017A - Calculus for Biology & Medicine (4.00)	←	No Course Articulated
MAT 017B - Calculus for Biology & Medicine (4.00)	←	No Course Articulated
MAT 017C - Calculus for Biology & Medicine (4.00)	←	No Course Articulated

--- Or ---		
MAT 021A - Calculus (4.00)	←	MATH 1A - Calculus (5.00) <ul style="list-style-type: none"> Credit for articulated courses in one series only <div>--- Or ---</div> MATH 1AH - Calculus - HONORS (5.00) <ul style="list-style-type: none"> Credit for articulated courses in one series only
MAT 021B - Calculus (4.00)	←	MATH 1B - Calculus (5.00) <ul style="list-style-type: none"> Credit for articulated courses in one series only <div>--- Or ---</div> MATH 1BH - Calculus - HONORS (5.00) <ul style="list-style-type: none"> Credit for articulated courses in one series only
MAT 021C - Calculus (4.00) <ul style="list-style-type: none"> Recommended; Not required for the major 	←	MATH 1C - Calculus (5.00) <ul style="list-style-type: none"> Credit for articulated courses in one series only <div>--- Or ---</div> MATH 1CH - Calculus - HONORS (5.00) <ul style="list-style-type: none"> Credit for articulated courses in one series only

Select courses in consultation with an advisor
Highly recommended to complete the entire series
Complete entire sequence at same institution prior to transfer
If the entire sequence is not completed prior to transfer, students must consult an advisor prior to enrollment

PHY 007A - General Physics (4.00)



PHYS 2B - General Introductory Physics (5.00)

--- And ---

PHYS 2C - General Introductory Physics (5.00)

- Complete entire sequence at same institution prior to transfer

PHY 007B - General Physics (4.00)



PHYS 2B - General Introductory Physics (5.00)

--- And ---

PHYS 2C - General Introductory Physics (5.00)

- Complete entire sequence at same institution prior to transfer

PHY 007C - General Physics (4.00)



PHYS 2B - General Introductory Physics (5.00)

--- And ---

PHYS 2C - General Introductory Physics (5.00)

- Complete entire sequence at same institution prior to transfer

END OF AGREEMENT