

COMPUTATIONAL BIOLOGY (COMP BIO) MAJOR CURRICULUM *(effective FALL 2026 and forward)*

LOWER DIVISION REQUIREMENTS:

Computational and Systems Biology 10
Chemistry 14A, 14B OR Chemistry 20A, 20B
Computer Science (COM SCI) 31 OR Program in Computing (COMPTNG) 10A
Life Sciences 7A, 7B, 7C
Calculus & Statistics Series – Option #1: Life Sciences 30A, 30B, C&S BIO M32, Mathematics 33A, 33B
Calculus & Statistics Series – Option #2: Mathematics 31A, 31B, 33A, 33B
Statistics – Statistics 10 OR Statistics 13 OR Life Sciences 40
Physics 5A, 5B, 5C OR 1A, 1B, 1C
ADDITIONAL PREP: Bioinformatics Track: must also complete Computer Science 32 OR Program in Computing 10B and 10C; AND STATS 100A, but these do not have to be completed prior to admission into the major. Biological Data Sciences Track: must also complete Computer Science 32, but this does not have to be completed prior to admission into the major. MATH 61, MATH 115A, and/or STATS 100A are also recommended pre-reqs for this track depending on chosen track courses. Dynamical Modeling Track: MATH 32A is a recommended pre-req depending on chosen track courses. All Tracks: LIFESCI 23L and/or CHEM 14C/30A are recommended pre-reqs depending on chosen Life Science courses. **NOTE: Additional pre-reqs (beyond the required and recommended courses above) may be required for certain track courses. Students should check pre-reqs on the Schedule of Classes.**

METHODOLOGY CORE UPPER DIVISION REQUIREMENTS: (6 courses total)

CORE I – Intro & Survey – C&S BIO/COM SCI/BIOENGR M184 OR C&S BIO 183*
CORE II – Research Topics – C&S BIO 185
CORE III – Data Science and Statistics for Life Scientists – Pathway #1: C&S BIO 100; OR Pathway #2: STATS 100A OR MATH 170E AND STATS 100B OR MATH 170S
Biological Modeling – C&S BIO M150
Capstone Series (2 courses, pick one series) – Option #1: C&S BIO 199 and M187; Option #2: C&S BIO 198A and 198B**;
Option #3: C&S BIO 195 and M187

*C&S BIO 183 can be taken but will not automatically be applied to the DARS.

**Students admitted to the *major* prior to Fall 2020 are required to complete just one course: C&S BIO M187

TRACK REQUIREMENTS: Five(5) upper division(UD) courses; one track must be declared when admitted to the major

Anything highlighted in green REQUIRES Chem 14C and/or CHEM 14D

Courses that require STATS 100A

IMPORTANT NOTE: Courses listed in a track category are courses a student can enroll in to satisfy the requirement. However, enrollment in courses is not guaranteed. CaSB does not offer enrollment assistance for any courses listed outside of the CaSB IDP. If CaSB offers enrollment assistance for any course, an announcement will be made via Bruin Learn. Otherwise, a student must abide by the enrollment rules set by the home department.

Bioinformatics Track	1 UD COM SCI Course from COM SCI C121, C122, C124 2 Additional UD Courses from C&S BIO M130, M178; COM SCI C121, C122, C124, EE BIOL C135, MCD BIO CM156, 187AL, PHYSCI 125, STATS M254 2 UD LIFE SCI Courses from the list of Life Science courses (see below)
Biological Data Sciences Track	3 UD Courses from C&S BIO M130, M178; COM SCI C121, C122, C124 OR COM SCI M226, M146 OR MATH 156 OR STATS C161; COM SCI 161, 168, 180 OR MATH 182; EC ENGR C143A, C147A, MATH 155, 164, STATS 101A, 101C, C161 At most two courses may be from Mathematics 2 UD LIFE SCI Courses from the list of Life Science courses (see below)

Dynamical Modeling Track	3 UD Courses from C&S BIO M130, M178, M186 OR COM SCI M182, EC ENGR 102, 113, EE BIOL C119A, C119B, MATH 134 OR 135, 136, 142, 146, 168, 171 At most two courses may be from Mathematics 2 UD LIFE SCI Courses from the list of Life Science courses (see below)
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Life Science Courses (select any two; courses can be from different areas)	
Biochemistry	CHEM 153A; CHEM 153B
Ecology	EE BIOL 100; EE BIOL 116; EE BIOL 120; EE BIOL 129; EE BIOL 161; EE BIOL C172; EE BIOL C174
Epidemiology	EPIDEM 100; MIMG 101; MIMG 102; MIMG 168; MIMG C185A
Genetics & Molecular Biology	MCD Bio 100; LIFESCI 107; MCD BIO 138; MCD BIO 140; MCD BIO 144; MCD BIO 165A
Neurosystems	NEUROSC M101A OR PSYCH 115 ; NEUROSC M101B ; NEUROSC 102 ; NEURO 205; NEURO 260; PHYSICI C144 ; PHYSICS C186 ; PSYCH 119M
Physiology	BIOENGR C102; BIOMATH 206; EE BIOL 170 OR PHYSICI 166 ; PHYSICI 149

Admission to the Pre-Major:

- Current UCLA students who were admitted as Freshmen or Transfer Students* can request to declare the pre-major once they have met the following requirements:
 - Completed one quarter at UCLA
 - Are in good academic standing
 - Have a cumulative GPA of a 2.0 or better
 - Have established a minimum pre-major GPA of a 2.7 by taking at least one pre-major course at UCLA for a letter grade
- *Transfer students: must have been admitted to UCLA under the Division of Life Sciences.
- All requests to declare the pre-major must be sent to the C&S BIO Undergraduate Office via [MyUCLA Forms](#).
- NOTE:
 - Please allow 10 – 15 business days for review. If a student does not meet the requirements to declare the pre- major, there will not be an option to petition the decision.
 - All courses for the pre-major must be completed with a grade of C or better.
 - Students are allowed to repeat up to two pre-major courses. Those who receive 3 grades of a C- or below in pre-major courses (either different courses or multiple repeats of the same course) are dismissed from the program.

Admission to the Major:

- Once students have completed all of the pre-major coursework, they must submit an [application](#) to be entered into the major.
- Students must submit the completed application to the C&S BIO Undergraduate Office via [MyUCLA Forms](#). Please allow 10-15 business days for review. If a student does not meet all of the minimum grade/GPA requirements to officially be entered into the major, they will need to [petition](#) by attaching a written statement addressing the circumstances that led to not being able to meet the minimum grade/GPA requirements. If you have not completed a pre-major requirement(I.E. any of the Physics courses), please do not reach out requesting to be added to the major. Students will be notified via Message Center of the decision.
- Effective Fall 2020, students will need to meet the following eligibility requirements to be admitted to the major:
 - Minimum 2.7 GPA in all pre-major courses **AND** Minimum grade of C or better in all pre-major courses
 - Have a cumulative GPA of a 2.0 or better
 - Completion of all pre-major courses with a C or better

Departmental Honors:

- Students with a grade-point average of 3.5 or better in required major courses and a 3.0 cumulative GPA may apply for departmental honors. Honors or highest honors may be granted at the discretion of the faculty sponsor and the faculty committee to students demonstrating exceptional ability on the senior research thesis.
- Departmental Honors can be changed at the department's discretion on a quarterly basis.

IT IS YOUR RESPONSIBILITY TO BE AWARE OF THE REQUIREMENTS LISTED ON YOUR DEGREE AUDIT REPORT (DAR) AND TO VERIFY THAT IT IS UP TO DATE.

REVISED 09/02/26

FOR FURTHER ASSISTANCE, PLEASE CONTACT THE COMP BIO DEPARTMENT VIA [MESSAGE CENTER](#)