

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

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

Cell, Molecular and Developmental Biology, B.A. or B.S.

GENERAL REQUIREMENTS

Applicants to majors in the College of Natural and Agricultural Sciences are selected on the basis of academic preparation, as assessed by their GPA and the strength of preparation for the intended major. A GPA of at least 2.70 is required (This is a baseline GPA for consideration and not a guarantee of admission). Courses must be completed with a letter grade, with no grade lower than a "C". To be best prepared for upper division course work at UCR, students are advised to complete as many as possible of the lower division major requirements listed below prior to transfer, and to prioritize this course work above completion of breadth/general education courses.

Effective Fall 2024 transfer students must complete all Chemistry lab courses in-person to receive articulation to UCR's equivalent Chemistry lab courses. Completing Chemistry lab courses online will not impact your ability to transfer. Transfer students who complete Chemistry lab courses online will be required to retake the lab courses at UCR.

In addition, complete community college courses comparable to **at least three** of the following UCR year-long sequences in order to meet selection criteria for this major. All courses must be completed with "C" grades or better. First year calculus and general chemistry are required, the *third* sequence can be chosen from the options listed under Potential Course Sequences.

Potential Course Sequences

Chemistry CHEM 1A/LA, CHEM 1B/LB, CHEM 1C/LC (**mandatory**)

Math 9A, MATH 9B **or** MATH 7A, MATH 7B (**mandatory**)

Biology BIOL 5A/5LA, BIOL 5B (and BIOL 5C, if articulated)

Organic Chemistry CHEM 8A/LA, CHEM 8B/LB, CHEM 8C/LC

Physics PHYS 40A, PHYS 40B, PHYS 40C **or** PHYS 2A/LA, PHY 2B/LB, PHYS 2C/2LC

AP Exam - Satisfy Course Requirement Section

Mathematics: AB Exam or AB Subscore from BC Exam

Minimum score of 3 satisfies MATH 9A **or** MATH 7A

Mathematics: BC Exam

Minimum score of 3 satisfies MATH 9A and MATH 9B **or** MATH 7A and MATH 7B

Minimum score of 4 satisfies MATH 9A, MATH 9B, MATH 9C **or** MATH 7A, MATH 7B, MATH 9C

Physics: C Exam - Mechanics

Minimum score of 4 satisfies PHYS 2A and 2LA

If sending institution offers honors courses, the articulation for the same course number will be used.

For additional information about this major, please visit [Cell, Molecular, and Developmental Biology](#).

For information about the UC Transfer Admission Guarantee (TAG) program, please visit [Transfer Admission Guarantee](#).

IGETC and General Education/Breadth Information

IGETC is not accepted for majors housed in the College of Natural and Agricultural Sciences. Courses taken for IGETC will be applied to the College's breadth pattern as appropriate. Transfer students who wish to supplement their math and science preparation with humanities or social science courses are encouraged to follow the College of Natural and Agricultural Sciences breadth pattern. You may view the breadth requirements for College of Natural and Agricultural Sciences by visiting the [2022-23 Catalog](#), pages 87-89.

Note: Students pursuing a B.A. degree in Cell, Developmental and Molecular Biology will also need to complete the equivalent of 4th quarter proficiency (generally third semester) in a language other than English, as part of the breadth requirements for this degree.

LOWER DIVISION MAJOR REQUIREMENTS

Required for admission

All courses in this section are required
Minimum grade required: C or better

BIOL 5A - Intro to Cell and Molecular Biology (4.00)

--- And ---

BIOL 5B - Intro to Organismal Biology (4.00)

--- And ---

BIOL 5C - Introductory Evolution and Ecology (4.00)

--- And ---

BIOL 5LA - Intro to Cell and Molecular Biology Lab (1.00)

BIOL 6A - Form and Function in the Biological World (6.00)

--- And ---

BIOL 6B - Cell and Molecular Biology (6.00)

--- And ---

BIOL 6C - Ecology and Evolution (6.00)

CHEM 1A - General Chemistry (4.00)

--- And ---

CHEM 1B - General Chemistry (4.00)

--- And ---

CHEM 1C - General Chemistry (4.00)

--- And ---

CHEM 1LA - General Chemistry Lab (1.00)

--- And ---

CHEM 1LB - General Chemistry Lab (1.00)

--- And ---

CHEM 1LC - General Chemistry Lab (1.00)



CHEM 1A - General Chemistry (5.00)

--- And ---

CHEM 1B - General Chemistry (5.00)

--- And ---

CHEM 1C - General Chemistry and Qualitative Analysis (5.00)

MATH 9A - First-Year Calculus (4.00)

--- And ---

MATH 9B - First-Year Calculus (4.00)

- An AP exam may be used to satisfy this course requirement



MATH 1A - Calculus (5.00)

--- And ---

MATH 1B - Calculus (5.00)

MATH 7A - Calculus for Life Sciences (4.00)

- An AP exam may be used to satisfy this course requirement



No Course Articulated

--- And ---

MATH 7B - Calculus for Life Sciences (4.00)

- An AP exam may be used to satisfy this course requirement



No Course Articulated

Select 1 Sequence(s) from the following

Required for admission

Minimum grade required: C or better

CHEM 8A - ORGANIC CHEMISTRY (3.00)

--- And ---

CHEM 8B - ORGANIC CHEMISTRY (3.00)

--- And ---

CHEM 8C - ORGANIC CHEMISTRY (3.00)

--- And ---

CHEM 8LA - ORGANIC CHEMISTRY LABORATORY (1.00)

--- And ---

CHEM 8LB - ORGANIC CHEMISTRY LABORATORY (1.00)

--- And ---

CHEM 8LC - ORGANIC CHEMISTRY LABORATORY (1.00)



CHEM 12A - Organic Chemistry (5.00)

--- And ---

CHEM 12B - Organic Chemistry (5.00)

--- And ---

CHEM 12C - Organic Chemistry (5.00)

PHYS 40A - General Physics (5.00)

--- And ---

PHYS 40B - General Physics (5.00)

--- And ---

PHYS 40C - General Physics (5.00)



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

--- And ---

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

--- And ---

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

PHYS 2A - General Physics (4.00)

--- And ---

PHYS 2B - General Physics (4.00)

--- And ---

PHYS 2C - General Physics (4.00)

--- And ---

PHYS 2LA - General Physics Laboratory (1.00)

--- And ---

PHYS 2LB - General Physics Laboratory (1.00)

--- And ---

PHYS 2LC - General Physics Laboratory (1.00)

- *An AP exam may be used to satisfy this course requirement*



PHYS 2A - General Introductory Physics (5.00)

--- And ---

PHYS 2B - General Introductory Physics (5.00)

--- And ---

PHYS 2C - General Introductory Physics (5.00)

END OF AGREEMENT