



# CHEMISTRY MAJOR

## Transfer Requirements

The following requirements for the major are subject to change without notice. To assure that this information is current, you should consult with a STEM counselor, or review articulation agreements at [www.assist.org](http://www.assist.org)

**NOTE:** The BS Degree is typically more science subject intensive. The BA Degree may be more cross-disciplinary and allow for more elective choices/flexibility.

**NOTE:** Students who have a strong chemistry background, or have taken high school chemistry may take the chemistry placement exam to waive Chemistry 4, Beginning Chemistry. Although organic chemistry is generally an upper division course, some universities allow students to take it at a community college. Our Chemistry 7A, 7B is transferable, but the university may require a proficiency examination and additional upper division chemistry units.

### CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS (CSUDH) (2023-2024)

**BA Chemistry (General Chemistry Option):** Chemistry 1A, 1B; Math 190, 191; Physics 1A, 1B, 1C, 1D

**BA Chemistry (Biochemistry Option):** Chemistry 1A, 1B; Math 190, 191; Physics 1A, 1B, 1C, 1D **or** 2A, 2B **or** 3A, 3B

**BS Chemistry:** Chemistry 1A, 1B; Math 190, 191, 220; Physics 1A, 1B, 1C, 1D

**Note:** Physics 1A, 1B, 1C, 1D articulates as a sequence only

### CALIFORNIA STATE UNIVERSITY, FULLERTON (CSUF) (2022-2023)

**BA Chemistry:** Chemistry 1A, 1B, 7A\*, 7B\*; Physics 1A, 1B, 1C **or** 2A, 2B **or** 3A, 3B; Math 190, 191

**BS Chemistry:** Chemistry 1A, 1B, 7A\*, 7B\*; Physics 1A, 1B, 1C, 1D; Math 190, 191, 220, 270

**BS Biochemistry:** Chemistry 1A, 1B, 7A\*, 7B\*; Physics 2A, 2B **or** 3A, 3B; Math 190, 191, 220, Biology 110 & 120

\* **Note:** no upper division credit will be given for Chemistry 7A, 7B, subject credit only

### CALIFORNIA STATE UNIVERSITY, LONG BEACH (CSULB) (2023-2024)

**BA Chemistry:** Chemistry 1A, 1B, 7A, 7B; Math 190, 191; Physics 1A, 1B, 1C

**BS Chemistry:** Chemistry 1A, 1B, 7A, 7B; Math 190, 191, 220, 270; Physics 1A, 1B, 1C; Complete One from the following: Biology 120, **or** Biology 8 & 11, **or** Biology 110, **or** Biology 10, **or** Anatomy 30, **or** Physiology 31 **or** Anatomy and Physiology 34A & 34B

**BA Biochemistry:** Chemistry 1A, 1B, 7A, 7B; Biology 110 and 120 **or** Biology 8 & 11; Math 165 **or** 190, 191; Physics 1A, 1B, 1C **or** 2A, 2B **or** 3A, 3B

**BS Biochemistry:** Chemistry 1A, 1B, 7A, 7B; Biology 110 and 120 **or** Biology 8 & 11; Math 190, 191; Physics 1A, 1B, 1C

**Note:** Major specific admissions requirements, please visit: <https://www.csulb.edu/admissions/transfer-admission-eligibility>

### CALIFORNIA STATE UNIVERSITY, LOS ANGELES (CSULA) (2023-2024)

**BS Chemistry:** Chemistry 1A, 1B, 7A; Math 190, 191, 220, 270; Physics 1A, 1C

**BS Biochemistry:** Chemistry 1A, 1B, 7A; Biology 110, 120; Math 190, 191; Physics 1A, 1C

**Note:** Major specific admissions requirements, please visit: <https://www.calstatela.edu/admissions/major->

[specific-criteria](#)

**CALIFORNIA STATE UNIVERSITY, NORTHRIDGE (CSUN) (2023-2024)**

**BA Chemistry:** Chemistry 1A, 1B; Math 190 **or** \*165, 191; Physics 1A, 1C

**BS Chemistry:** Chemistry 1A, 1B; Math 190, 191, 220, 270; Physics 1A, 1C

**BS Biochemistry:** Chemistry 1A, 1B; Biology 110, 120; Math \*165 **or** 190, 191; Physics 1A, 1C

\* Note: If you take Math 165 at ECC, you will have to take Calculus II at CSUN, if admitted

**UNIVERSITY OF CALIFORNIA, IRVINE (UCI) (2023-2024)**

**BS Pharmaceutical Sciences:** Chemistry 1A, 1B, 7A, 7B, 21B; Biology 110, 120, 130; Genetics course required (no articulated course at ECC); additional courses approved for major: Physics 1A, 1C **or** Physics 3A, 3B; Mathematics 190, 191 and one additional course: Mathematics 220 **or** 270 **or** 150 **or** Psychology 109A **or** Sociology 109A;

**BS Chemistry:** Chemistry 1A, 1B; Math 190, 191; additional courses approved for major: Chemistry 7A, 7B; Math 220; Physics 1A, 1C; additional electives: Chemistry 21B; Biology 130

**BS Biochemistry and Molecular Biology:** Chemistry 1A, 1B, 7A, 7B; Biology 110, 120; additional courses approved for major: Chemistry 21B; Biology 130; Complete either: Physics 3A, 3B **or** Physics 1A, 1C; Mathematics requirement: Math 190 & 150 **or** Math 190 & 191 **or** Math 190 & 220 **or** Math 190 & Sociology 109A **or** Psychology 109A (Students interested in this major follow the required and recommended courses for BS Biological Sciences)

**Note:** Major specific admissions requirements, please visit:

<https://www.admissions.uci.edu/apply/transfer/requirements.php>

**UNIVERSITY OF CALIFORNIA, DAVIS (UCD) (2023-2024)**

**BS Chemical Physics:** Chemistry 1A, 1B, 7A, 7B; Math 190, 191, 220, 270; Physics 1A, 1B, 1C, 1D

**BS Pharmaceutical Chemistry:** Chemistry 1A, 1B, 7A, 7B; Biology 110, 120; Math 165 **or** 190, 191, 220; Physics 2A, 2B **or** 3A, 3B **or** 1A, 1B, 1C, 1D

**AB Chemistry:** Chemistry 1A, 1B, 7A, 7B; Math 165 **or** 190, 191, 220; Physics 2A, 2B **or** 3A, 3B **or** 1A, 1B, 1C, 1D

**BS Chemistry:** Chemistry 1A, 1B, 7A, 7B; Math 190, 191, 220, 270; Physics 1A, 1B, 1C, 1D

**B.S. Applied Chemistry:** Chemistry 1A, 1B, 7A, 7B; Biology 110; Math 165 **or** 190, 191, 220; Physics 2A, 2B **or** 3A, 3B **or** 1A, 1B, 1C, 1D; Math 150 **or** Psychology 109A **or** Sociology 109A

**Note:** Selective major requirements, please visit:

<https://www.ucdavis.edu/admissions/undergraduate/transfer/selective-major-requirements/>

**UNIVERSITY OF CALIFORNIA, BERKELEY (UCB) (2023-2024)**

**NOTE:** IGETC or UCB's L&S requirements in Reading and Composition, Quantitative Reasoning, and Foreign Language, **MUST** be completed by the spring semester prior to fall transfer for the major below

**Lower Division B.A./B.S. Chemistry:** Chemistry 1A, 1B, 7A, 7B; Math 190, 191, 220, 270; Physics 1A, 1B, 1C, 1D

**NOTE:** the majors below are offered by the College of Chemistry. You must complete either: The requirements in Reading and Composition **OR** IGETC by the end of the spring term that precedes fall enrollment at Berkeley. Language Other Than English (LOTE) may be satisfied after transfer. You must also prepare to do upper division work in your major.

**B.S. Chemistry:** English 1A and 1B; Chemistry 1A, 1B, 7A, 7B; Math 190, 191, 220, 270; Physics 1A, 1B, 1C; Physics 1D

**B.S. Chemical Biology:** English 1A and 1B; Chemistry 1A, 1B, 7A, 7B; Math 190, 191, 220, 270; Physics 1A, 1B, 1C **or** 3A, 3B; Biology 110, 120, 130

**UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA) (2023-2024)**

**B.S. Chemistry:** Chemistry 1A, 1B, 7A, 7B; Math 190, 191, 220, 270; Physics 1A, 1C, 1D

**B.S. Chemistry/Material Science:** Chemistry 1A, 1B, 7A; Math 190, 191, 220, 270; Physics 1A, 1C, 1D

**B.S. Biochemistry:** Chemistry 1A, 1B, 7A, 7B; Math 190, 191, 220, Recommended Math 270; Biology 110, 120; Physics 1A, 1C, 1D **or** Physics 3A, 3B

**Note:** UCLA Transfer Admission Guide: [http://www.admission.ucla.edu/Prospect/Adm\\_tr/tradms.htm](http://www.admission.ucla.edu/Prospect/Adm_tr/tradms.htm)

**UNIVERSITY OF CALIFORNIA, RIVERSIDE (UCR) (2023-2024)**

**B.A./B.S. Chemistry:** Chemistry 1A, 1B; Math 190, 191; Select one sequence: Chem 7A, 7B **or** Physics 1A, 1B, 1C **and** Math 220, 270

**B.A./B.S. Biochemistry:** Chemistry 1A, 1B 7A, 7B; Biology 110; Math 190, 191; Strongly Recommend: Biology 120; Math 270; Physics 1A, 1B, 1C **or** 3A, 3B

**Note:** Major specific admissions requirements, please visit: <https://admissions.ucr.edu/transfer/majors-preparation-guide> \*\*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. Students are encouraged to follow the College of Natural and Agricultural Sciences breadth pattern [https://studentdocs.ucr.edu/registrar/UCR\\_Catalog\\_2023-24.pdf](https://studentdocs.ucr.edu/registrar/UCR_Catalog_2023-24.pdf)

**UNIVERSITY OF CALIFORNIA, SAN DIEGO (UCSD) (2023-2024)**

**B.S. Biochemistry:** Chemistry 1A, 1B, 7A, 7B; Biology 110, 120; Math 190, 191, 150 **or** Math 190, 191, 220, 270; Physics 3A, 3B **or** Physics 1A, 1B, 1C **or** Physics 1A, 1B, 1C, 1D

**B.S. Chemistry:** Chemistry 1A, 1B, 7A, 7B; Math 190, 191, 220, 270; Physics 1A, 1C; Physics 1B or 1D

**B.S. Pharmacological Chemistry:** Chemistry 1A, 1B, 7A, 7B; Biology 110, 120; Physics 1A, 1C, 1D **or** 3A, 3B; Math 190, 191, 150 **or** Math 190, 191, 220, 270

**B.S. Molecular Synthesis:** Chemistry 1A, 1B, 7A, 7B; Math 190, 191, 220, 270; Physics 1A, 1C; Physics 1B or 1D

**B.S. Environmental Chemistry:** Chemistry 1A, 1B, 7A, 7B; Math 190, 191, 220, 270; Physics 1A, 1C; Physics 1B or 1D

**Note:** Major specific admissions requirements, please visit: <https://admissions.ucsd.edu/transfer/transfer-major-preparation.html>

**UNIVERSITY OF SOUTHERN CALIFORNIA (USC) (2023-2024)**

**BA Chemistry:** Chemistry 1A; Math 190, 191, 220 **or** 270; Physics 1A, 1B, 1C, 1D

**BS Chemistry:** Chemistry 1A; Math 190, 191, 220 **or** 270; Physics 1A, 1B, 1C, 1D

Option: **BS Chemical Biology:** add Biology 110, 120; does not require Physics 1D

**BS Chemical Nanoscience:** no additional coursework

**BS Research:** no additional coursework

**Useful Links:**

USC Transfer Planning Guide <https://atweb.usc.edu/TPG/default.aspx>

USC Articulation Agreements: <https://atweb.usc.edu/articagrmt/artic.aspx>

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