



# 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) (2021-2022)

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

**BS Biochemistry:** Biology 101, 102; Chemistry 1A, 1B; Math 190, 191; Physics 1A, 1B, 1C, 1D

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

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

### CALIFORNIA STATE UNIVERSITY, FULLERTON (CSUF) (2021-2022)

**BA Chemistry:** Chemistry 1A, 1B, 7A, 7B\*; Physics 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 and 191, Biology 101, 102

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

### CALIFORNIA STATE UNIVERSITY, LONG BEACH (CSULB) (2021-2022)

**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; Physics 1A, 1B, 1C; Either Complete: Biology 101, 102 or Biology 8 & 11, 102; Choose from: Biology 10 or Anatomy 30 or Physiology 31 or Anatomy and Physiology 34A & 34B

**BA Biochemistry:** Chemistry 1A, 1B 7A, 7B; Biology 101, 102 or Biology 8 & 11, 102; Math 190, 191; Physics 1A, 1B, 1C or 2A, 2B or 3A, 3B

**BS Biochemistry:** Chemistry 1A, 1B, 7A, 7B; Biology 101, 102 or Biology 8 & 11, 102; 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) (2021-2022)

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

**BS Biochemistry:** Chemistry 1A, 1B, 7A, 7B\*; Biology 101, 102; Math 190, 191; Physics 1A, 1C

**Note:** Chem 7B only articulates as CSULA's organic chemistry lab II;

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

#### **CALIFORNIA STATE UNIVERSITY, NORTHRIDGE (CSUN) (2021-2022)**

**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:** Biology 101, 102; Chemistry 1A, 1B; Math 165 or 190, 191; Physics 1A, 1C

#### **UNIVERSITY OF CALIFORNIA, IRVINE (UCI) (2021-2022)**

**BS Pharmaceutical Sciences:** Biology 101, 102, 103; Chemistry 1A, 1B, 7A, 7B, 21B; Genetics required (no articulated course at El Camino); Two semesters of Calculus: Mathematics 190, 191 and one additional approved course in mathematics: Mathematics 220, 270, 150 or Psychology 109A or Sociology 109A; additional courses approved for major: Physics 1A, 1C or Physics 3A, 3B

**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 103

**BS Biochemistry and Molecular Biology:** Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; additional courses approved for major: Chemistry 21B; Biology 103; 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 (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) (2021-2022)**

**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; Math 165 or 190, 191, 220; Biology 101, 102; 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; Physics 1A, 1B, 1C, 1D; Math 190, 191, 220, 270

**B.S. Applied Chemistry:** Chemistry 1A, 1B, 7A, 7B; Physics 2A, 2B or 3A, 3B or 1A, 1B, 1C, 1D; Biology 102; Math 165 or 190, 191, 220; Math 150 or Psychology 109A or Sociology 109A

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

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

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

#### **UNIVERSITY OF CALIFORNIA, BERKELEY (UCB) (2021-2022)**

**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 101, 102, 103

**UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA) (2021-2022)**

**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; Physics 1A, 1C, 1D or Physics 3A, 3B; Biology 101, 102

**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) (2020-2021)**

**B.A./B.S. Biochemistry:** Chemistry 1A, 1B; Math 190, 191; Select one sequence: Biology 101, 102 or Chem 7A, 7B or Physics 1A, 1B, 1C or Physics 3A, 3B

**B.A./B.S. Biochemistry:** Chemistry 1A, 1B 7A, 7B; Math 190, 191; Select on Sequence: Physics 1A, 1CB 1C or Math 220, 270

**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.

**UNIVERSITY OF CALIFORNIA, SAN DIEGO (UCSD) (2021-2022)**

**B.S. Biochemistry:** Chemistry 1A, 1B, 7A, 7B; Biology 101, 102; Math 190, 191, 150 or Math 190, 191, 220, 270; Physics 3A, 3B or Physics 1A, 1C; Physics 1B or 1D

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

**B.S. Pharmacological Chemistry:** Biology 101, 102; Chemistry 1A, 1B, 7A, 7B; Math 190, 191, 220, 270; Physics 1A, 1C; Physics 1B or 1D

**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

**B.S. 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) (2021-2022)**

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

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

Option: **BS Chemical Biology:** add Biology 101, 102; does not require Physics 1D

**BS Chemical Nanoscience:** no additional coursework

**Useful Links:**

Transfer Planning Guide <https://camel2.usc.edu/TPG/SelctPgAgrmnt.aspx>

Articulation Agreements: <https://camel2.usc.edu/articagrmt/artic.aspx>

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