

### **Bachelor of Arts in Biochemistry (120 units)**

This new state-supported program was recommended by the Academic Senate on February 15, 2018 and concurred by the President on February 27, 2018.

All students must achieve at least a 2.0 grade-point average in (1) the entire college record, (2) all units attempted at CSULB, and (3) all courses in the major. In addition, students must achieve a grade of “C” or better in all courses in the major.

#### **Lower Division**

Take all the following courses with a grade of C or better:

BIOL 211 Introduction to Evolution and Diversity (4)

Prerequisite/Corequisite: CHEM 111A with a grade of “C” or better.

BIOL 212 Introduction to Cell and Molecular Biology (4)

Prerequisites: BIOL 211, CHEM 111A with grades of “C” or better.

Prerequisite/Corequisite: CHEM 111B

Take either Option 1 or Option 2:

#### Option 1 with a grade of C or better

CHEM 111A General Chemistry (5)

Prerequisite(s)/Corequisite(s): MATH 112A with a grade of “C” or better, or MATH 112B or higher (may be taken concurrently).

Prerequisite(s)/Corequisite(s): Appropriate score on the chemistry placement test or other measures, or department consent. Students in need of additional support will be required to enroll concurrently in CHEM 95.

CHEM 111B General Chemistry (5)

Prerequisites: CHEM 111A and MATH 112B or higher both with a grade of “C” or better.

#### Option 2

CHEM 112A Advanced General Chemistry (5)

C or better required

Prerequisite: Department consent.

CHEM 112B Advanced General Chemistry (5)

Prerequisite: CHEM 112A with a grade of “C” or better.

Option 1

MATH 119A Survey of Calculus 1 (3)

C or better required

Prerequisite: A grade of "C" or better in MATH 112B or MATH 113, or appropriate CSULB

either Tm(Option 1)Tj/Tus 1 (3)

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C or better required

Prerequisites: CHEM 220B and either CHEM 320L or CHEM 223B all with a grade of "C" or better; a biology or microbiology course is recommended.

CHEM 441B Biological Chemistry (3)

Prerequisite: CHEM 441A with a grade of "C" or better.

CHEM 442 Methods in Biochemistry (2)

Prerequisites: CHEM 361 and CHEM 441A both with grades of C or better.

CHEM 461 Chemistry Capstone (1)

Prerequisite/Corequisite: Department consent.

Take at least 3 units of upper division electives chosen from:

BIOL 342, BIOL 342L, BIOL 370, BIOL 416, BIOL 430, BIOL 431, BIOL 432, BIOL 433, BIOL 443, BIOL 445, BIOL 473; CHEM 331, CHEM 332, CHEM 420, CHEM 480, CHEM 496, CHEM 498, CHEM 498H, CHEM 499; RSCH 496A

**EFFECTIVE: Fall 2019**

Campus Code: CHEMBA03U1

College: 65

Career: GD

CIP Code: 26.0202

CSU Code: 04141

Department Owner: Department of Chemistry and Biochemistry