CSUEB Degree Roadmap

Bachelor of Science in Biochemistry

		TOTAL UNITS TO DEGREE:	120
	Course	Course Title	Units
First Semester (suggested timeline for GE; adjust as needed for major)			
E	GS 101	Freshman Studies	1
A1			3
LD Major	CHEM 111	General Chemistry I	5
B4	MATH 130	Calculus I	4
D1/CODE 1			3
		TOTAL:	16
Second Semester (suggested timeline for GE; adjust as needed for major)			
E	GS 102	Freshman Studies	1
A2			3
C1			3
LD Major	MATH 131	Calculus II	3
LD Major	CHEM 112	General Chemistry II	5
		TOTAL:	15
Third Semester (suggested timeline for GE; adjust as needed for major)			
E	LIB 101	Information Literacy	1
A3			3
UD Major	CHEM 331	Organic Chemistry I	5
B2	BIOL 140A	Principles of Cell and Molecular Biology	5
LD Major	MATH 230	Calculus III	3
		TOTAL:	17
Fourth Semester (suggested timeline for GE; adjust as needed for major)			
2nd Comp	ENGL 200 or PHYS 230		3
LD Major	BIOL 140B	Principles of Organismal Biology	5
LD Major	CHEM 220	Quantitative Analysis	4
UD Major	CHEM 332	Organic Chemistry II	5
		TOTAL:	17
Fifth Semester (suggested timeline for GE; adjust as needed for major)			
C2			3
D2			3
UD Major	CHEM 441	Biochemistry I	4
B1/B3	PHYS 135	Physics for Scientists and Engineers I	4
		TOTAL:	14
Sixth Semester (suggested timeline for GE; adjust as needed for major)			
UD Major	CHEM 442	Biochemistry II	4
B6			3
LD Major	PHYS 136	Physics for Scientists and Engineers I	4
C3			3
		TOTAL:	14
Seventh Semester (suggested timeline for GE; adjust as needed for major)			
Code 2			3
UD Major	CHEM 443	Biochemistry Laboratory I	3
UD Major		Biochemistry elective	3
UD Major	CHEM 351	Physical Chemistry I	3
D3			3
		TOTAL:	15
Eighth Semester			
UD Major	CHEM 352	Physical Chemistry II	3
UD Major	CHEM 444	Biochemistry Laboratory II	3
C4			3
D4			3
		TOTAL:	12

3 units Code may be double-counted with LD GE; and 3 units Writing II may be double-counted with Major.

Please enter all courses required for the major, including any prerequisites. If there are any General Education courses that are recommended to complement the major they should be included in the table below, and listed in the road map.

General Education and University Requirements-Suggested Courses

- A1. first semester
- A2. second semester
- A3. third semester
- B1. PHYS 135
- B2. BIOL 140 A
- B3. PHYS 135
- B4. MATH 130
- C1. second semester
- C2. fifth semester
- C3. sixth semester
- D1. first semester
- D2. fifth semester
- D3. seventh semester
- E. GS 101, GS 102, LIB 101
- Code 1. should also satisfy D1
- Code 2. seventh semester
- 2nd Comp ENGL 200 or PHYS 230
- B6. sixth semester
- C4. eighth semester
- D4. eighth semester