

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

NAME _____

Building 232—PHONE: 893-5675

Date _____ Perm # _____

<http://www.chem.ucsb.edu>

College of Letters and Science

University of California, Santa Barbara

CHEMISTRY MAJOR, B.S. – 2020-2021

A UC GPA of 2.00 or above in each of the six sequences of courses, listed in Area I, is required for admission to the full Chemistry major. Acceptance into the pre-major does not guarantee admission to full major status. Upon satisfactory completion of the pre-major courses, students must complete a change of major petition, available in the Department of Chemistry and Biochemistry Student Affairs Office.

I. PRE-MAJOR REQUIREMENTS**UNITS YET TO COMPLETE**

Chemistry 1A or 2A, 1B or 2B, 1C or 2C.....	9
Chemistry 1AL, 1BL or 2BC, 1CL or 2CC	6
Chemistry 6AL <u>and</u> 6BL or 6BH.....	6
Chemistry 109A or 109AH, 109B or 109BH, 109C (or W 109C) or 109CH	12
Math 2A or 3A, 2B or 3B, <u>and</u> 4A.....	12-14
Physics 1-2-3-4	14

II. PREPARATION FOR THE MAJOR

The following courses are not required to be admitted into the Chemistry B.S. major, but are required to complete the major.

Chemistry 6CL or 6CH.....	3
Math 4B and 6A	8
Physics 3L-4L	2

UPPER-DIVISION MAJOR

45 UD Chemistry units are required, distributed as follows:

Note: Transfer students receiving subject credit for Chemistry 150 *must* complete a minimum of 45 UD units in the Department of Chemistry and Biochemistry.

A. Chemistry 113A-B-C, 142A (or W 142A), 150, and 173A-B	21-24
B. Chemistry 116AL-BL-CL	9
C. UD Chemistry electives, with no more than one course from Chemistry 110, 123 and 149	12-15

The following courses **will not** apply toward the major: Chemistry 101, 102, 183, 184, 192, 193, 196, 198 and 199

Courses taken: _____

Note: By petition, some of the Area C elective units may be taken in other related departments.

MAJOR REGULATIONS

PREREQUISITES..... Check the *General Catalog* for the prerequisites to all listed courses. Completion of the Pre-Chemistry major is required to enroll in upper-division courses required for the major.

P/NP GRADING OPTION Not allowed for any major course (Prep or UD major), including courses applied to the major from other departments.

SUBSTITUTIONS..... In the major requirements permissible only by petition to the department chair and dean.

RESIDENCE REQUIREMENTS At least 20 UD units in major while in residence at UCSB.

G.P.A REQUIREMENTS..... At least 2.0 overall UC average in **all** upper-division major courses and all courses (Prep and UD) for the major.

DOUBLE MAJORS With the approval of each department chairperson, up to a total of 8 units may be applied simultaneously to both UD majors.

Sample Curriculum for B.S. Chemistry

2020-2021

Fall		Winter		Spring	
Course	(Units)	Course	(Units)	Course	(Units)
Year 1					
Chem 1A/2A	(3)	Chem 1B/2B	(3)	Chem 1C/2C	(3)
Chem 1AL/2AC	(2)	Chem 1BL/2BC	(2)	Chem 1CL/2CC	(2)
Math 2A/3A	(4-5)	Math 2B/3B	(4-5)	Math 4A	(4)
GEs	(4+)	Phys 1	(4)	Phys 2	(4)
GEs	(4+)	GEs	(4+)	GEs	(4+)
Year 2					
Chem 109A/109AH	(4)	Chem 109B/109BH	(4)	Chem 109C/109CH	(4)
Phys 3	(3)	Chem 6AL	(3)	Chem 6BL	(3)
Phys 3L	(1)	Phys 4	(3)	GEs/UD Electives	(4+)
Math 4B	(4)	Phys 4L	(1)	GEs/UD Electives	(4+)
		Math 6A	(4)		
Year 3					
★Chem 113A	(4)	★Chem 113B	(4)	★Chem 113C	(4)
★Chem 142A	(3)	★Chem 116AL	(3)	★Chem 116BL	(3)
★Chem 150	(3)	GEs/UD Electives	(4+)	GEs/UD Electives	(4+)
Chem 6CL	(3)	GEs/UD Electives	(4+)	GEs/UD Electives	(4+)
GEs/UD Electives					
Year 4					
★Chem 173A	(3)	★Chem 173B	(3)	GEs/UD Electives	(4+)
★Chem 116CL	(3)	GEs/UD Electives	(4+)	GEs/UD Electives	(4+)
GEs/UD Electives	(4+)	GEs/UD Electives	(4+)	GEs/UD Electives	(4+)
GEs/UD Electives	(4+)	GEs/UD Electives	(4+)	GEs/UD Electives	(4+)

★ Only offered in the quarter listed. 150 and 173A are also generally offered in the summer.

✦ All Math and Physics courses from the preparation for the major need to be completed before 113A.

✦ 150 is a prerequisite to 116AL.

✦ 113B is a prerequisite to 116AL, but may be taken concurrently.

✦ 113ABC are prerequisites to 173A.

✦ Must be enrolled in a minimum of 12 units per quarter to be considered a full time student.

✦ This is a sample curriculum. In order to guarantee that you are on track for graduation, be sure to see the undergraduate advisor. Also please note that there are College and University Requirements not listed here.

GE: General Education Requirement

UD: Upper Division