

# UCLA CHEMISTRY MAJOR 2016-2017

**CHEMISTRY MAJOR (B.S.):** This major is designed primarily for students who are interested in attending graduate school in Chemistry or related areas. It also satisfies some of the requirements of pre-medical and pre-professional schools. Refer to the UCLA General Catalog ([www.registrar.ucla.edu/catalog](http://www.registrar.ucla.edu/catalog)) for course descriptions and requisites.

For more details about this major and others offered in the Department of Chemistry and Biochemistry, consult the Undergraduate Office in 4006 Young Hall.

Preparation for the Major	
<b>General Chemistry (CHEM)</b>	Chem 20A(H), 20B(H), 20L, 30AL
<b>Organic Chemistry (CHEM)</b>	Chem 30A(H), 30B, 30BL, 30C, 30CL
<b>Math (MATH)</b>	Math 31A, 31B, 32A, 32B, 33B (33A highly recommended)
<b>Physics (PHYSICS)</b>	Physics 1A(H), 1B(H), 1C(H), 4BL

Upper Division Major Requirements	
<b>Chemistry (CHEM)</b>	Chem 110A, 113A, [110B <u>OR</u> C113B], 114(H), [136 <sup>+</sup> <u>OR</u> 144 <sup>+</sup> ], 171, 172
<b>Biochemistry (CHEM)</b>	Chem 153A(H), 153L
<b>One Chemistry Elective (Choose One)</b>	Chem 103, C107, C115A, C115B, C123A, C123B, 125, C126A, 136 <sup>+</sup> , C140, C143A, C143B, 144 <sup>+</sup> , C145, 153B(H), 153C(H), 154 <sup>+</sup> , 156, CM160A, C160B, C161A, C164, C174 <sup>+</sup> , C175, C176, C179, C180, C181, 184 <sup>+</sup> , 185 <sup>+</sup>
<b>Chemistry Laboratory (Choose One)</b>	Chem 136 <sup>+</sup> , 144 <sup>+</sup> , 154 <sup>+</sup> , C174 <sup>+</sup> , 184 <sup>+</sup> , 185 <sup>+</sup>

+ Course may only be applied once to the major  
 [ ] Choose one course enclosed in brackets

\*Because these courses may be used to fulfill other Upper Division Major requirements, space in these courses may be limited. We encourage you to use one of the other listed courses to fulfill the Upper Division Chemistry Elective requirement.

## Important Notes

- You must have a minimum of 180 units to graduate, and 60 of those units must be upper division (courses numbered 100 to 199).
- The Chemistry B.S. Upper Division Major Requirements satisfy at least 47 upper division units.
- All Preparation for the Major and Upper Division Major courses must be taken for a letter grade.
- Seminars, individual study courses, and research courses (e.g. 196, 199) may not be used to satisfy the requirements for the Chemistry major.
- You must have a 2.0 GPA in the major to graduate with a degree. If you fall below a 2.0 GPA in the major, it is strongly recommended that you change majors.
- You may not take or repeat a chemistry or biochemistry course for credit if it is a prerequisite for a more advanced course for which you already have credit.

# UCLA CHEMISTRY MAJOR 2016-2017 – Sample Major Course Plans

## INCOMING FRESHMEN

### FRESHMAN YEAR

FALL	WINTER	SPRING
CHEM 20A (4)	CHEM 20B (4)	CHEM 30A (4)
MATH 31A (4)	CHEM 20L (3)	MATH 32A (4)
	MATH 31B (4)	

### SOPHOMORE YEAR

FALL	WINTER	SPRING
CHEM 30B (4)	CHEM 30C (4)	CHEM 110A (4)
CHEM 30AL (4)	CHEM 30BL (3)	MATH 33B (4)
PHYSICS 1A (5)	MATH 32B (4)	PHYSICS 1C (5)
	PHYSICS 1B (5)	PHYSICS 4BL (2)

### JUNIOR YEAR

FALL	WINTER	SPRING
CHEM 153A (4)	CHEM 113A (4)	CHEM 110B (4)
CHEM 30CL (4)	CHEM 171 (4)	CHEM 172 (4)
	CHEM 153L (4)	Upper Division Chemistry Elective (4)

### SENIOR YEAR

FALL	WINTER	SPRING
CHEM 114 (5)	CHEM 184* <u>OR</u> 174* (5)	CHEM 185 <u>OR</u> 136 (5)
CHEM 144 (5)	(*only take 174/184 if Chem 144 is not taken)	

(Numbers in parentheses indicate the number of units.)

### Important Notes

- This plan is just one EXAMPLE of how to schedule classes to graduate in 4 years. Other schedules may be equally valid.
- This plan only includes required courses for the Preparation for the Major and the Upper Division Major Requirements.
- **This plan does not include General Education and other College requirements.** For these requirements, please consult with your College Advising Unit (College Academic Counseling, AAP, Honors, Athletics).
- Be sure to check your Degree Audit Report (DAR) frequently to ensure you are meeting all degree requirements.

## TRANSFER STUDENTS

### JUNIOR YEAR

FALL	WINTER	SPRING
CHEM 153A (4)	CHEM 153L (4)	CHEM 113A (4)
CHEM 171 (4)	CHEM 110A (4)	CHEM 172 (4)

### SENIOR YEAR

FALL	WINTER	SPRING
CHEM 144 (5)	CHEM C113B (4)	CHEM 114 (5)
Upper Division Chemistry Elective (4)	CHEM 174 <u>OR</u> 184 (5)	

(Numbers in parentheses indicate the number of units.)

### Important Notes

- This plan is just one EXAMPLE of how to schedule classes to graduate in 2 years. Other schedules may be equally valid.
- Assuming that incoming transfer students have already completed the Preparation for the Major, this plan only includes required courses for the Upper Division Major Requirements.
- **This plan does not include General Education and other College requirements.** For these requirements, please consult with your College Advising Unit (College Academic Counseling, AAP, Honors, Athletics).
- Be sure to check your Degree Audit Report (DAR) frequently to ensure you are meeting all degree requirements.

**Courses may not always be taught in the quarter shown. Check with the Chemistry/Biochemistry Department for the most current list of projected course offerings.**