

# CHEMISTRY DEGREE REQUIREMENTS

## **BASIC REQUIREMENTS**

- Math 2A       Math 2B       Math 2D
- Physics 7C-7D-7E-7LC-7LD
- Chem M2A/H2A-M2B/H2B-M2C/H2C
- Chem M2LA/H2LA-M2LB/H2LB     Chem M3LC
- Chem 5
- Chem 51A/H52A-51B/H52B-51C/H52C
- Chem M/H52LA-M/H52LB-M/H52LC
- Chem 107       Chem 107L
- Chem 132A-132B-132C
- Chem 152

**Electives** (5 Courses; at least 3 of the courses must be offered by the Chemistry department, including at least 1 Chemistry lecture course and 1 Chemistry lab course.)

At least **two** lecture courses chosen from the Lecture list:

Bio Sci	98, 99, M114, M116, M123
Chemistry	100, 125, 127, 128, 133, 138, 141, 145A, 145B 150, 177, 201-205, 210-269
ESS	142, 144, 171
Engineering	CBE 110, 130, 145, 161, 181, 183 CEE 162, MAE 114, MAE 164, MSE 141, MSE 164
Pharm Sci	170A, 170B, 171
Physics	111A, 111B, 112A, 112B
Pub Health	171

At least **two** laboratory courses chosen from the Lab list:

Bio Sci	M114L, M116L, M118L
Chemistry	128L, 133L, 150L, 153, 156, 160, 177L, 180, 197, (180/H180 may be counted only once)
ESS	114
Engineering	CBE 140A, 140B

- \_\_\_\_\_ (chem lecture)
- \_\_\_\_\_ (chem lab)
- \_\_\_\_\_ (any chem elective)
- \_\_\_\_\_ (any elective)
- \_\_\_\_\_ (any elective)

Concentration courses may be used to fulfill the lecture and lab electives, where overlap exists.

## **Optional Concentration in Chemical Biology**

- Bio Sci 97     Bio Sci 98     Bio Sci 99
- Chem 128     Chem 128L

## **Optional Specialization in Medicinal Chemistry**

- Chem 128     Chem 128L     Chem 160
- Chem 177     Chem 177L

## **Optional Specialization in Nuclear and Radiochemistry**

- Chem 133     Chem 133L     Chem 153     Approved Elective

## **Optional Specialization in Synthetic Chemistry**

- Chem 125     Chem 127     Chem 156     Chem 160

## **Optional Specialization in Environmental Chemistry**

- ESS 144     Chem 141     Chem 153
- Chem 145A **OR** ESS 142

## **Optional Concentration in Chemistry Education**

- Educ 55     Phy Sci 5     Phy Sci 105     Chem 193

## **Secondary Teaching Certification Option:**

In addition to the Concentration requirements, students can earn a California Single Subject Teaching Credential by completing **all of these additional classes**:

- LPS 60
- Educ 109     Educ 143AW     Educ 143BW     Educ 148
- Educ 158     Educ 158 (two quarters required)
- \*\* Education 143A and 143B plus 148 count as three electives from the elective list. \*\*

## **Optional Concentration in Theoretical and Computational Chemistry and Quantum Science**

- Math 3A     Math 3D
- Chem 150     Chem 150L
- Physics 50

Select at least nine courses from the courses below, at least one must be taken from each list, or the chemistry major electives list.

- One from List #1:  
Physics 111A, 111B, 112A, 112B, 113A, 113B, 113C, 115A, 125A, 125B
- One from List #2:  
Math 105A-LA, 105B-LB  
Stats 7, 110, 111, 112
- One from List #3:  
EECS 12, 20, 22, 22L

\*\* Chem 5, 107L, 152, and all electives under the regular Chemistry Major are not required and are optional for this concentration. \*\*

## **Optional American Chemical Society Certification**

- Chem 128     Chem 128L
- Select 3 courses; at least one from each list:
- List #1: Chem 153, 156, 160, 180, H180
- List #2: Chem 125, 127, 133 & 133L, 138, 141, 150 & 150L, 177 & 177L, 201-205, 213-249
- Additional course from List #1 or #2  
(If Chem 133 or 150 or 177, then the lecture & lab must both be taken to satisfy one of the elective requirements)
- Chem 180W or H181W

**UCI SCHOOL OF PHYSICAL SCIENCES**  
**UNIVERSITY / GENERAL EDUCATION REQUIREMENTS**

NAME \_\_\_\_\_ STUDENT ID \_\_\_\_\_

Other Colleges \_\_\_\_\_

**UNIVERSITY REQUIREMENTS:**

English (UC ELW) \_\_\_\_\_ American History \_\_\_\_\_ Institutions \_\_\_\_\_

**RESIDENCY REQUIREMENTS:**

36 of the final 45 units must be completed at UCI \_\_\_\_\_

**UNIT REQUIREMENT:** 180 units are required for graduation \_\_\_\_\_

**GPA REQUIREMENT AND STANDING:**

Overall GPA of 2.0 \_\_\_\_\_ GPA in major at least a 2.0 \_\_\_\_\_

GPA in upper-division major classes at least a 2.0 \_\_\_\_\_

**TRANSFER STUDENTS:**

Partial IGETC \_\_\_\_\_

Full IGETC \_\_\_\_\_

cert received? yes \_\_\_\_\_ no \_\_\_\_\_

General Education (GE) Requirements	Fall	Winter	Spring
<b>I. Writing (2 lower-division, 1 upper-division)</b> <input type="checkbox"/>	<b>Freshman</b>		
1.	Chem M2A, M2LA (or H2A, H2LA)	Chem M2B, M2LB (or H2B, H2LB)	Chem M2C (or H2C)
2.	Mathematics 2A	Mathematics 2B	Chem M3LC
3.	GEN ED (Writing) Chem 11	GEN ED	Mathematics 2D GEN ED
<b>II. Science &amp; Technology (any 3)</b> <input type="checkbox"/>	<b>Sophomore</b>		
1.	Chem 51A, M52LA	Chem 51B, M52LB	Chem 51C, M52LC
2.	Phys 2 or GEN ED	Phys 7C/LC	Phys 7D/7LD
3.	Chem 5 GEN ED	GEN ED GEN ED	GEN ED GEN ED
<b>III. Social &amp; Behavioral Sciences (any 3)</b> <input type="checkbox"/>	<b>Junior</b>		
1.	Chem 132A	Chem 132B	Chem 132C
2.	Physics 7E	Chem 152	Chem 107L
3.	Chem 107	GEN ED	GE/Chem Elective
<b>IV. Arts &amp; Humanities (any 3)</b> <input type="checkbox"/>	<b>Senior</b>		
1.	Chem Elective	Chem Elective	Chem Elective
2.	GEN ED	GEN ED	GEN ED
3.	GEN ED	GEN ED	GEN ED
<b>V. Quantitative, Symbolic and Computational Reasoning</b> <input type="checkbox"/>	(sample program, your schedule may differ greatly)		
Va.			
Vb.			
Va or Vb.			
<b>VI. Language Other than English</b> <input type="checkbox"/>	Chemistry Department:		
1C or equivalent	<a href="http://www.chem.uci.edu/undergrad/">http://www.chem.uci.edu/undergrad/</a>		
	Enrollment questions:		
	<a href="http://chem.ps.uci.edu/~upo/">http://chem.ps.uci.edu/~upo/</a>		
	Chemistry tutoring:		
	<a href="http://www.chem.uci.edu/undergrad/tutors">http://www.chem.uci.edu/undergrad/tutors</a>		
	How to find research:		
	<a href="http://ps.uci.edu/stuaff/opportunities/research">http://ps.uci.edu/stuaff/opportunities/research</a>		
<b>VII. Multicultural Studies (one course)</b> <input type="checkbox"/>	Course offerings:		
	<a href="http://www.chem.uci.edu/Course-Offerings">http://www.chem.uci.edu/Course-Offerings</a>		
<b>VIII. International/Global Issues (one course)</b> <input type="checkbox"/>			