

**Major Requirements for a B.S in Applied Physics  
with a concentration in  
Chemical Physics**

Requirements listed are those in the 2012-2014 catalog. The required courses for the major should be taken for a letter grade. All courses are required unless otherwise indicated.

**Preparatory Subject Matter**

Course	No	Units	Qtr	Grade	GP
PHY	9A	5	F,S		
	9B	5	F,W		
	9C	5	W,S		
	9D	4	F,S		
	<b>or</b>				
PHY	9HA	5	F		
	9HB	5	W		
	9HC	5	S		
	9HD	5	F		
	9HE	5	W		
	<b>and</b>				
MAT	21A	4	F,W,S		
	21B	4	F,W,S		
	21C	4	F,W,S		
	21D	4	F,W,S		
	22A	3	F,W,S		
	22B	3	F,W,S		
ECS	30	4	F,W,S		
CHE	2A	5	F,W		
	2B	5	W,S		
	2C	5	F,S		

**Core Subject Matter**

Course	No	Units	Qtr	Grade	GP
PHY	102	1	F		
	104A	4	F		
	105A	4	F		
	110A	4	W		
	110B	4	S		
	112	4	F		
	115A	4	S		
	116A	4	F		
	116B	4	W		

**Laboratory Requirement**

Course	No	Units	Qtr	Grade	GP
PHY	122A/B	4	W		
	<b>or</b>				
	116C	4	S		

**Concentration Courses**

Course	No	Units	Qtr	Grade	GP
PHY	115B	4	F		
	140A	4	W		
CHE	124A	3	F		

**Additional Recommended Courses**

Courses recommended but not required.

Course	No	Units	Qtr	Grade	GP
PHY	116C*	4	S		
	140B	4	S		
CHE	110BC*	8	VAR		
	128ABC*	9	VAR		
	129A*	2	VAR		
	210B*	3	VAR		
EMS	147*	3	W		

\*Recommended Course

<b>Overall</b>	
<b>Upper Div</b>	

**Major GPA**

**Major Requirements for a B.S in Applied Physics  
with a concentration in  
Chemical Physics**

**Suggested Schedule**

The core major courses as well as the minimum requirement concentration courses are underlined below. Recommended courses are in italics.

	<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
<b>Junior</b>	<u>PHY102 (4)</u> <u>PHY104A (4)</u> <u>PHY105A (4)</u> <u>PHY116A (4)</u>	<u>PHY110A (4)</u> <u>PHY116B (4)</u> <i>CHE128A (4)+</i> <i>CHE129A (2)+</i>	<u>PHY110B (4)</u> <u>PHY115A (4)</u> <i>PHY116C (4)</i>
<b>Senior</b>	<u>PHY112 (4)</u> <u>PHY115B (4)</u> <u>CHE124A (3)</u> <i>CHE128C (3)+</i>	<u>PHY122 (4)</u> <u>PHY140A (4)</u> <i>EMS147 (4)</i> <i>CHE110B (4)+</i>	<i>PHY140B (4)</i> <i>CHE110C (4)+</i> <i>CEH210B (4)</i>

Core and Concentration Total \_\_\_\_\_

+ Also offered other quarters.

48 Total Units

Course Substitution/ Waiver requests should be submitted well in advance, preferably prior to enrollment in the course.

1. Student must first speak with a faculty advisor.
2. Faculty advisor submits course substitution/waiver request to the Undergraduate Curriculum Committee for approval.

Advisor please Initial & date substitution/waiver requests and submit to the Chair of the Undergraduate Curriculum Committee.

Approval: \_\_\_\_\_ (Required for delcaration of major & any subsequent substitutions)  
Physics Advisor Date

Approval: \_\_\_\_\_ (Required only if there are substitutions.)  
Departmental Approval Date

Applied Physics Advisor For  
 Chemical Physics Concentration: X. Zhu (zhu@physics.ucdavis.edu)