Major Requirements for a B.S in Applied Physics with a concentration in Materials Science

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

Ticpulat	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			
	or					
PHY	9НА	5	F			
	9НВ	5	W			
	9HC	5	S			
	9HD	5	F			
	9HE	5	W			
	and					
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			
ENG	45*	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		
	105B	4	W		
	110A	4	W		
	110B	4	S		
	112	4	F		
	115A	4	S		
	116A	4	F		
	116B	4	W		

Course not offered every year

Laboratory Requirement

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

Concentration Courses

Course	No	Units	Qtr	Grade	GP
PHY	115B	4	F		
	140A	4	W		
	140B	4	S		
EMS	174	4	F#		
	180	4	S#		

Additional Recommended Courses

Courses recommended but not required.

Course	No	Units	Qtr	Grade	GP
PHY	105C*	4	S#		
	110C*	4	F		
	116C*	4	S		
EMS	162*	4	W#		
	164*	4	S#		
	147*	3	W		

	Major GPA
Overall	
Upper Div	

^{*}Recommended Course

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Suggested Schedule

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

	Fall	Winter	Spring
Junior	PHY102 (4)	PHY105B (4)	PHY110B (4)
	PHY104A (4)	PHY110A (4)	PHY115A (4)
	PHY105A (4)	PHY116B (4)	PHY116C (4)
	PHY116A (4)*	EMS 162 (4)	
Senior	PHY112 (4)	PHY122 (4)	PHY140B (4)
	PHY115B (4)	PHY140A (4)	EMS180 (4)
	EMS 174 (4)	EMS147 (4)	PHY105C (4)
	PHY110C (4)		EMS 164(4)
	Cara Cancar	ntration and Addtl. Electives Total	
. Also offered other a	£1 Total Units		
+ Also offered other q	61 Total Units		
* Physics 116A is reco			

^{*} Physics 116A is recommended for Sophomore year students in the 9H series.

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 &
	Physics Advisor	Date	any subsequent substitutions)
Approval:			(Required only if there are
	Departmental Approval	Date	substitutions.)

Applied Physics Advisor For

Materials Science Concentration: X. Zhu (zhu@physics.ucdavis.edu)