

**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**

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		
ENG	45*	4	F,W,S		
CHE	2A	5	F,W		
	2B*	5	W,S		
	2C*	5	F,S		

**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		
	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		

**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

\*Recommended Course

<b>Major GPA</b>	
<b>Overall</b>	
<b>Upper Div</b>	

