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

Requirements listed are those in the 2018-2019 catalog. The required courses for the major should be taken for a letter grade. All courses are required unless otherwise indicated.

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Course	No	Units	Qtr	Grade	GP
РНҮ	9A	5	F,S		
	9B	5	F,W		
	9C	5	W,S		
	9D	4	F,S		
	or				
PHY	9HA	5	F		
	9HB	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		
PHY	40	4	S		
ENG	45*	4	F,W,S		
PHY	185*	1	S		
	190*	1	F		

Core Subject Matter

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

PHY 80 will be a pre-requisite for PHY 122A/B starting W2020 # Course not offered every year *Recommended Course

Laboratory Requirement

Choose one

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

Concentration Courses

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

Additional Recommended Courses

Courses recommended but not required.

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

Major GPA

Overall Upper Div

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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	<u>PHY102 (1)</u>	<u>PHY105B (4)</u>	<u>PHY110B (4)</u>
	<u>PHY104A (4)</u>	<u>PHY110A (4)</u>	<u>PHY115A (4)</u>
	<u>PHY105A (4)</u>	<u>PHY116B (4)</u>	PHY116C (4)
	<u>PHY116A (4)*</u>	EMS 162 (4)	
Senior	<u>PHY112 (4)</u>	<u>PHY122 (4)</u>	<u>PHY140B (4)</u>
	<u>PHY115B (4)</u>	<u>PHY140A (4)</u>	<u>EMS180 (4)</u>
	<u>EMS 174 (4)</u>	EMS147 (4)	PHY105C (4)
	PHY110C (4)		EMS 164(4)

Core, Concentration and Addtl. Electives Total____

+ Also offered other quarters.

* 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:	Physics Advisor	Date	(Required for delcaration of major & any subsequent substitutions)
Approval:	Departmental Approval	Date	(Required only if there are substitutions.)

Applied Physics Advisor For Materials Science Concentration:

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61 Total Units