

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

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		
	22AL	1	F,W,S		
	22B	3	F,W,S		
ECS	30	4	F,W,S		
ENG	17	4	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		

*\*Recommended Course*

**Laboratory Requirement**

Course	No	Units	Qtr	Grade	GP
PHY	122A/B	4	W		

**Concentration Courses**

Course	No	Units	Qtr	Grade	GP
PHY	110C	4	F		
	140A	4	W		
EEC	100	5	F,W		

**Additional Concentration Electives**

Choose 4 courses from the following electives.

Course	No	Units	Qtr	Grade	GP
EEC	110A	4	W,S		
	110B	4	S		
	140A	4	F,W		
	140B	4	S		
	150A	4	W		
	150B	4	F		

**Recommended courses**

Also the other 2 EEC courses from above.

Course	No	Units	Qtr	Grade	GP
PHY	115B*	4	F		
	140B*	4	S		

*Substitutions: PHY116AB may be substituted for Engineering 17 and EEC 100. In addition, PHY116ABC may be substituted for PHY122.*

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

**Major GPA**

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**Suggested Schedule**

The core major courses as well as the minimum requirement concentration courses are underlined below. Possible electives are double underlined and 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>EEC100 (5)</u>	<u>PHY122 (4)</u> <u>PHY110A (4)</u> <u>EEC140A (4)</u>	<u>PHY110B (4)</u> <u>PHY115A (4)</u> <u>EEC150A(4)</u>
<b>Senior</b>	<u>PHY110C (4)</u> <u>PHY112 (4)</u> <u>EEC150B (4)</u> <i>PHY115B (4)</i>	<u>PHY140A (4)</u> <u>EEC110A (4)</u> <i>Grad EEC Class#</i>	<i>PHY140B (4)</i> <i>Grad EEC Class#</i> <i>Grad EEC Class#</i>

Core, Concentration and Addtl. Electives Total \_\_\_\_\_  
54 Total Units

*# The graduate classes are only available to students who are admitted into the Integrated Degree Program of the Department fo Electrical and Computer Engineering.*

**Recommended :** *Partipcate in EEC research to get introduced to possible thesis subjects.*

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