

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

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.

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	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		
	80	4	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		

PHY 80 will be a pre-requisite for PHY 122A/B starting W2020
*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.

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. Possible electives are double underlined and recommended courses are in italics.

	Fall	Winter	Spring
Junior	<u>PHY102 (4)</u> <u>PHY104A (4)</u> <u>PHY105A (4)</u> <u>EEC100 (5)</u>	<u>PHY110A (4)</u> <u>EEC140A (4)</u>	<u>PHY110B (4)</u> <u>PHY115A (4)</u> <u>PHY 080 (4)</u> <u>EEC150A(4)</u>
Senior	<u>PHY110C (4)</u> <u>PHY112 (4)</u> <u>EEC150B (4)</u> <i>PHY115B (4)</i>	<u>PHY122 (4)</u> <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: _____ Date (Required for delcaration of major & any subsequent substitutions)
Physics Advisor

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