

University of California, Davis - Requirements For The B.S. Degree In  
**APPLIED PHYSICS**  
with concentration in  
**PHYSICAL ELECTRONICS**

**Preparatory:** All Applied Physics majors must take Physics 9ABCD or 9HABCDE, Math 21ABCD, Math 22AB, and Computer Science Engineering 30. Students in the Physical Electronics concentration must also take Math 22AL and Engineering 17.

**Depth:** All majors are required to take the common core of Physics courses consisting of Physics 102 (Computational Laboratory), 104A (Mathematical Methods), 105A (Mechanics), 110AB (Electricity and Magnetism), 112 (Thermodynamics and Statistical Mechanics), and 115A (Quantum Mechanics) along with satisfying the minimum requirements of the concentration.

**Lab Requirement:** Physics 122

**CONCENTRATION COURSES**

**Units**

<b>Minimum:</b>	Electrical and Computer Engineering 100	4
	Physics 110C (Electricity and Magnetism)	4
	Physics 140A (Solid State Physics)	4

and 4 elective courses

chosen from:	Electrical and Computer Engineering 110A, 110B	
	Electrical and Computer Engineering 140A, 140B	
	Electrical and Computer Engineering 150A, 150B	16

**Substitutions:** Physics 116AB may be substituted for Engineering 17 and EEC 100. In addition, Physics 116ABC may be substituted for Physics 122.

<b>Recommended:</b>	Physics 115B	4
	Physics 140B	4
	The other 2 ECE courses from above	8

**POSSIBLE SCHEDULE**

(solid underline means required course and dotted underline means possible elective course; the graduate classes are only available to students who are admitted into the Integrated Degree Program of the Department of Electrical and Computer Engineering)

<b>Junior</b>	<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
	<u>Physics 104A</u>	<u>Physics 110A</u>	<u>Physics 110B</u>
	<u>Physics 105A</u>	<u>Physics 122</u>	<u>Physics 115A</u>
	<u>Physics 102</u>	<u>EEC 140A</u>	<u>EEC 150A</u>
	<u>EEC 100</u>		
<b>Senior</b>	<u>Physics 110C</u>	<u>Physics 140A</u>	Physics 140B
	<u>Physics 112</u>	<u>EEC 110A</u>	Grad EEC Class
	<u>EEC 150B</u>	Grad EEC Class	Grad EEC Class
	Physics 115B		

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