

ELECTRICAL ENGINEERING, MINOR

College of Engineering

There has been an increasing need for professionals in most engineering disciplines to understand the fundamentals of electronic circuits, electronic signals, semiconductor devices, applied electromagnetics, control systems, computer systems, and communication systems.

The objective of this minor program is to prepare students with the necessary theoretical and practical training in one or many of the above mentioned fields. The minor program curriculum is designed to allow flexibility while ensuring a solid foundation of fundamental electrical engineering concepts. The program is expected to accommodate students of diverse backgrounds.

The minor must be outside the department or program of your major and no more than one course may be counted toward both your minor and your major. The courses you take to satisfy the requirements of a minor, including those completed elsewhere, must be approved by an advisor in the Department of Electrical & Computer Engineering. You must have a minimum overall GPA of 2.000 and satisfy the minor course requirements, listed below. To receive notation of this minor on your diploma, you must obtain a minor petition and file it no later than the deadline for filing for graduation.

Code	Title	Units
EEC 100	Circuits II	5
Choose at least one of the following combinations:		8-10
<i>Analog Circuits</i>		
EEC 110A & EEC 110B	Electronic Circuits I and Electronic Circuits II	
<i>Electromagnetics</i>		
EEC 130A & EEC 130B	Electromagnetics I and Introductory Electromagnetics II	
<i>Physical Electronics</i>		
EEC 140A or EEC 140AV	Principles of Device Physics I Principles of Device Physics I	
&		
EEC 140B	Principles of Device Physics II	
<i>Signals & Systems</i>		
EEC 150	Introduction to Signals & Systems	
EEC 151	Digital Signals & Systems	
<i>Communication</i>		
EEC 150	Introduction to Signals & Systems	
EEC 160	Signal Analysis & Communications	
<i>Control Systems</i>		
EEC 150	Introduction to Signals & Systems	
EEC 157A or EEC 157AV	Control Systems Control Systems	
<i>Digital Systems</i>		
EEC 018 & EEC 180	Digital Systems I and Digital Systems II	

Choose at least 8 additional units of EEC courses numbered 101 or above ¹; If you elect to do a design project, you must be registered for both quarters. 8-10

Electrical & Computer Engineering (EEC) courses (<https://catalog.ucdavis.edu/courses-subject-code/eec/>)

Total Units 21-25

¹ Except EEC 190, EEC 192, EEC 196, EEC 197, EEC 198, EEC 199, EEC 298, EEC 299, EEC 390, EEC 396.