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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>EEC 100</td>
<td>Circuits II</td>
<td>5</td>
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<tr>
<td>Choose at least one of the following combinations:</td>
<td>8-10</td>
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**Analog Circuits**

- EEC 110A & EEC 110B: Electronic Circuits I and Electronic Circuits II

**Electromagnetics**

- EEC 130A & EEC 130B: Electromagnetics I and Introductory Electromagnetics II

**Physical Electronics**

- EEC 140A or EEC 140AV: Principles of Device Physics I
- EEC 140B: Principles of Device Physics II

**Signals & Systems**

- EEC 150: Introduction to Signals & Systems
- EEC 151: Digital Signals & Systems

**Communication**

- EEC 150: Introduction to Signals & Systems
- EEC 160: Signal Analysis & Communications

**Control Systems**

- EEC 150: Introduction to Signals & Systems
- EEC 157A or EEC 157AV: Control Systems

**Digital Systems**

- 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.

Electrical & Computer Engineering (EEC) courses: [link](https://catalog.ucdavis.edu/courses-subject-code/eeec/)

Total Units: 21-25