

Electrical Engineering Minor (Non-Teaching)

The Department of Electrical and Computer Engineering offers a non-teaching minor in Electrical Engineering that provides interested students with an introductory understanding of electrical circuits, electronics, and properties of signals. Students then choose electives from among a variety of electrical engineering topics, such as telecommunications, optics, electronics, electrical power, and control systems. This minor requires a minimum of 30 credits in electrical engineering subjects, with 9 of those credits selected from a list of upper division elective courses. This minor complements majors in science or engineering for those seeking a cross-disciplinary academic program. A CpE major can complete a minor in Electrical Engineering by taking three EELE classes (9 cr min) from the specified elective list for the EE minor. This can be done within the 126 credits required for the CpE degree alone.

Required core courses for the minor (22 cr.):

EELE 101	Introduction to Electrical Fundamentals	3
EELE 201	Circuits I for Engineering	4
EELE 203	Circuits II for Engineering	4
EELE 308	Signals and Systems Analysis	4
EELE 317	Electronics	4
EELE 334	Electromagnetic Theory I	3
Choose at least nine credits from the following:		9
EELE 321	Introduction To Feedback Controls	
EELE 355	Energy Conversion Devices	
EELE 407	Intro To Microfabrication	
EELE 409	EE Material Science	
EELE 411	Advanced Analog Electronics	
EELE 422	Intro to Modern Control	
EELE 432	Applied Electromagnetics	
EELE 445	Telecommunication Systems	
EELE 447	Mobile Wireless Communications	
EELE 477	Digital Signal Processing	
EELE 482	Electro-Optical Systems	
EELE 484	Laser Engineering	
Total Credits		31

Students must receive a grade of "C-" or better in all required courses for the EE minor.