

ELECTRICAL ENGINEERING, MINOR

The minor in electrical engineering is designed for students in engineering and science majors. The minor is not available to electrical engineering majors.

Requirements

The minor requires students to take a minimum of 21 credits, of which not more than 6 credits overlap with the student's major. Students must attain a minimum GPA of 2.0 in the minor.

Code	Title	Credits
Core		
Select 15 credits from the following:		15
ELECENG 140	Intro to Embedded Computing I: Digital Logic and Microprocessors	
ELECENG 240	Intro to Embedded Computing II: C Programming for Embedded Applications	
ELECENG 301	Electrical Circuits and Electronics I	
ELECENG 305	Electrical Circuits II	
ELECENG 310	Signals and Systems	
ELECENG 330	Electrical Circuits and Electronics II	
ELECENG 335	Electronics II	
ELECENG 340	Embedded Systems I: C and C++ Programming for Embedded Applications	
ELECENG 361	Electromagnetic Fields	
ELECENG 362	Electromechanical Energy Conversion	
ELECENG 420	Random Signals and Systems	
ELECENG 440	Embedded Systems II: Advanced Embedded Systems	
ELECENG 596	Capstone Design I	
ELECENG 597	Capstone Design II	
Electives		
Select 6 electives (see below)		6
Total Credits		21

Electives

No more than 6 credits from the following list may be counted towards the minor:

Code	Title	Credits
COMPSCI 458	Computer Architecture	3
COMPSCI 459	Fundamentals of Computer Graphics	3
ELECENG 410	Digital Signal Processing	3
ELECENG 421	Communication Systems	3
ELECENG 436	Introduction to Medical Instrumentation	3
ELECENG 437	Introduction to Biomedical Imaging	3
ELECENG 451	Introduction to VLSI Design	3
ELECENG 457	Digital Logic Laboratory	3
ELECENG 461	Microwave Engineering	3
ELECENG 464	Fundamentals of Photonics	3

ELECENG 465	Broadband Optical Networks	3
ELECENG 471	Electric Power Systems	3
ELECENG/MECHENG 474	Introduction to Control Systems	4
ELECENG 481	Electronic Materials	3
ELECENG 490	Topics in Electrical Engineering:	1-3
ELECENG 541	Integrated Circuits and Systems	3
ELECENG 565	Optical Communication	3
ELECENG 572	Power Electronics	3
ELECENG/MECHENG 574	Intermediate Control Systems	3
ELECENG 575	Analysis of Electric Machines and Motor Drives	3

More information on the minor may be obtained from the CEAS Office of Student Services: (414) 229-4667, EMS Room E386.