

# 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

It 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
<b>Core</b>		
Select 15 credits from the following:		15
ELECENG 301	Electrical Circuits I	
ELECENG 305	Electrical Circuits II	
ELECENG 310	Signals and Systems	
ELECENG 330	Electronics I	
ELECENG 335	Electronics II	
ELECENG 354	Digital Logic	
ELECENG 361	Electromagnetic Fields	
ELECENG 362	Electromechanical Energy Conversion	
ELECENG 367	Introduction to Microprocessors	
ELECENG 595	Capstone Design Project	
<b>Electives</b>		
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
COMPSCI 536	Software Engineering	3
ELECENG 410	Digital Signal Processing	3
ELECENG 420	Random Signals and Systems	3
ELECENG 421	Communication Systems	3
ELECENG 436	Introduction to Medical Instrumentation	3
ELECENG 439	Introduction to Biomedical Optics	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 462	Antenna Theory	3
ELECENG 465	Broadband Optical Networks	3
ELECENG 471	Electric Power Systems	3
ELECENG/MECHENG 474	Introduction to Control Systems	4
MECHENG 490	Topics in Mechanical Engineering:	1-3
ELECENG 541	Integrated Circuits and Systems	3

ELECENG 562	Telecommunication Circuits	3
ELECENG 565	Optical Communication	3
ELECENG 572	Power Electronics	3
ELECENG/MECHENG 574	Intermediate Control Systems	3
MATLENG 481	Electronic Materials	3
MECHENG 321	Basic Heat Transfer	4

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