

# ELECTRICAL ENGINEERING (ELEN), MINOR

**Requirements for Students Matriculating in or before Academic Year 2025-2026.** Learn more about University Academic Regulation 3.1 (<http://catalog.okstate.edu/university-academic-regulations/#matriculation>).

**Total Hours:** 22

Code	Title	Hours
<i>Required</i>		
ECEN 2233	Fundamentals of Digital Logic Design	3
ECEN 2714	Fundamentals of Electric Circuits	4
ENSC 2611	Electrical Fabrication Lab	1
ECEN 3714	Network Analysis	4
ECEN 3314	Electronic Devices and Applications	4
<b>Hours Subtotal</b>		<b>16</b>
<i>Electives (choose 2)</i>		
Select two courses from the following:		6
ECEN 3113	Energy, Environment and Economics	
ECEN 4133	Power Electronics	
ECEN 4153	Power System Analysis and Design	
ECEN 4313	Linear Electronics Circuit Design	
ECEN 4353	Communication Electronics	
ECEN 4303	Digital Integrated Circuit Design	
ECEN 3723	Systems I	
ECEN 4413	Automatic Control Systems	
ECEN 4493	Artificial Intelligence in Engineering	
ECEN 3513	Signal Analysis	
ECEN 4763	Introduction to Digital Signal Processing	
ECEN 4743	Introduction to Biomedical Engineering Modeling and Systems	
ECEN 4523	Communication Theory	
ECEN 4533	Data Communications	
ECEN 4613	Microwave Engineering	
ECEN 4823	Design of Optical Systems	
ECEN 4843	Design of Lasers and Systems	
MAE 4053	Automatic Control Systems	
<b>Hours Subtotal</b>		<b>6</b>
<b>Total Hours</b>		<b>22</b>

option. The minor may not duplicate the degree major or option (for example, a student who earns a BA in Art with an Art History option may earn a minor in Studio Art but not Art History).

- A student generally follows the minor requirements associated with his or her matriculation year or newer requirements that have been established since matriculation. The time limit for following requirements from a given academic year is six years.

For additional information on requirements on minors, click here (<https://adminfinance.okstate.edu/site-files/documents/policies/requirements-for-undergraduate-and-graduate-minors.pdf>).

## Additional OSU Requirements

### Undergraduate Minors

- An undergraduate minor must include between fifteen and thirty hours, inclusive of undergraduate coursework.
- A minimum of six credit hours for the minor must be earned in residence at OSU.
- The courses required for a minor may be included in the course requirements for any undergraduate degree or they may be in addition to degree requirements, depending on the overlap between the minor and degree requirements. However, an undergraduate minor must be earned in an academic field other than the student's declared degree