# Electrical Engineering, Minor

The minor in Electrical Engineering introduces students to the fundamental concepts of electrical and electronic component design, fabrication, and integration. Students will gain hands-on experience building analog and digital circuitry, analyzing signals and systems, and deploying electronics as part of larger systems leveraging microcontrollers, communication networks, and related technology.

Students pursuing a minor in Electrical Engineering are required to:

- Complete 30 credits.
- Complete a minimum of 12 credits in the minor that are not duplicated by the major or any other minor.
- Complete 6 credits upper division credits in the minor in residence at Chapman.
- Complete a minimum of 12 upper division credits in the minor.
- Take all courses in the minor for a letter grade.
- Achieve a 2.000 cumulative GPA in the minor and a 2.000 GPA for all upper-division coursework in the minor.

## requirements (27 credits)

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- MATH 115 - Accelerated Calculus Part I: Differentiation and Integration **4 credits**
- EENG 200 - Electronics and Circuits I **3 credits**
- EENG 200L - Lab - Electronics and Circuits I **1 credit**
- EENG 300 - Electronics and Circuits II **3 credits**
- EENG 300L - Lab - Electronics and Circuits II **1 credit**
- EENG 320 - Microelectronics I **3 credits**
- EENG 320L - Microelectronics I Lab **1 credit**
- EENG 420 - Microelectronics II **3 credits**

select one of the following sequences (8 credits)
sequence 1

- PHYS 101 - General Physics I **3 credits**

- PHYS 101L - General Physics I Laboratory **1 credit**
- PHYS 102 - General Physics II **3 credits**
- PHYS 102L - General Physics II Laboratory **1 credit**

sequence 2

- PHYS 107 - General Physics for the Life Sciences I, Lecture and Laboratory **4 credits**
- PHYS 108 - General Physics for the Life Sciences II, Lecture and Laboratory **4 credits**

## electives (3 credits)

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- EENG 370 - Topics in Electrical Engineering **3 credits**
- EENG 398 - Topics in Advanced Engineering Applications **1 credit** (3 credits required, complete three 1-credit sections)

## total credits 30

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