

## Electrical Engineering, B.S. Suggested 4-Year Plan

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### How to use your 4-Year Plan

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- This is a **suggested** 4-year plan for your major and not meant to replace regular academic advising.
- The plan is **flexible** and can be changed to accommodate studying abroad, a second major/minor(s) or AP/IB credits.
- You should work with an academic advisor to develop a plan that meets your interests and goals.
- You must earn a minimum of **120 credits to graduate** and **79-80 major-specific credits** to earn a B.S. in Electrical Engineering.
- **Transfer students and those seeking second majors** should [contact the program advisor](#) for degree planning.
- If you have any questions, contact [fseadvising@chapman.edu](mailto:fseadvising@chapman.edu).

### Suggested 4-Year Plan

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- We encourage you to select your General Education (GE) and minor/second major/Themed Inquiry/Honors program around the plan below. Once you fill your GE classes around your major classes, you will have a better idea of space remaining each semester when choosing your Exploration Focus.
- To be enrolled full time, you must take at least **12 credits a semester**.
- In order to **graduate within 4 years**, we recommend you take **30 credits a year**.

### Year 1

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#### Fall Semester (12-13 credits for major)

- [FFC 100B - First Year Foundations: Grand Challenges in Science and Engineering](#) **3 credits**
- [ENGR 101 - Foundations of Design and Fabrication](#) **3 credits**
- [CPSC 230 - Computer Science I](#) **3 credits**
- [MATH 110 - Single Variable Calculus I](#) **3 credits**

OR

- [MATH 115 - Accelerated Calculus Part I: Differentiation and Integration](#) **4 credits**

#### Spring Semester (8-9 credits for major)

- [CENG 231 - Systems Programming](#) 3 credits
  - [CENG 231L - Lab - Systems Programming](#) 1 credit
  - [GCI 150 - Grand Challenges in Science and Engineering I](#) 1 credit
  - [MATH 111 - Single Variable Calculus II](#) 3 credits
- OR
- [MATH 116 - Accelerated Calculus Part II: Series, Differential Equations and Multivariable Calculus](#) 4 credits

## Year 2

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### Fall Semester (11 credits for major)

- [EENG 200 - Electronics and Circuits I](#) 3 credits
- [EENG 200L - Lab - Electronics and Circuits I](#) 1 credit
- [EENG 201 - Digital Signals and Filters](#) 3 credits
- [MATH 210 - Multivariable Calculus](#) 3 credits \*
- [GCI 200 - Grand Challenges in Science and Engineering II](#) 1 credit

### Spring Semester (8-9 credits for major)

- Electrical Engineering Upper Division Requirement (3-4 credits)
- [GCI 250 - Grand Challenges in Science and Engineering III](#) 1 credit
- [PHYS 101 - General Physics I](#) 3 credits
- [PHYS 101L - General Physics I Laboratory](#) 1 credit

\* Not required for those who took MATH 116

## Year 3

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### Fall Semester (12 credits for major)

- [EENG 398 - Topics in Advanced Engineering Applications](#) 1 credit (any topic)
- [EENG 300 - Electronics and Circuits II](#) 3 credits
- [EENG 300L - Lab - Electronics and Circuits II](#) 1 credit
- [MATH 215 - Introduction to Linear Algebra and Differential Equations](#) 3 credits
- [PHYS 102 - General Physics II](#) 3 credits
- [PHYS 102L - General Physics II Laboratory](#) 1 credit

### Spring Semester (10-12 credits for major)

- Electrical Engineering Upper Division Requirement (3-4 credits)

- Electrical Engineering Upper Division Requirement (3-4 credits)
- [PHYS 201 - General Physics III](#) **3 credits**
- EENG398 - Topics in Advanced Engineering Applications, any topic (1 credit)

## Year 4

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### **Fall Semester (9-11 credits for major)**

- Electrical Engineering Upper Division Requirement (3-4 credits)
- Electrical Engineering Upper Division Requirement (3-4 credits)
- Electrical Engineering Elective (3 credits)

### **Spring Semester (10-11 credits for major)**

- Electrical Engineering Elective (3 credits)
  - Electrical Engineering Elective (3 credits)
  - Electrical Engineering Upper Division Requirement (3-4 credits)
  - [EENG 398 - Topics in Advanced Engineering Applications](#) **1 credit**
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