Computer Engineering, B.S. Suggested 4-year Plan

How to Use your 4-year Plan

- 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 Computer Science.
- **Transfer students and those seeking second majors** should contact the program advisor for degree planning.
- If you have any questions, contact fseadvising@chapman.edu.

Suggested 4-year Plan

- 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

Fall Semester (13-14 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**
- CENG 298 - Computer Engineering Colloquium **1 credit**
- MATH 110 - Single Variable Calculus I **3 credits**

  OR

- MATH 115 - Accelerated Calculus Part I: Differentiation and Integration **4 credits**

Spring Semester (9-10 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**
- CENG 298 - Computer Engineering Colloquium **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

Fall Semester (9-13 credits for major)

- EENG 200 - Electronics and Circuits I **3 credits**
- EENG 200L - Lab - Electronics and Circuits I **1 credit**
- CENG 298 - Computer Engineering Colloquium **1 credit**
- MATH 210 - Multivariable Calculus **3 credits** *
- GCI 200 - Grand Challenges in Science and Engineering II **1 credit**

Spring Semester (11-12 credits for major)

- Computer Engineering Upper Division Requirement (3-4 credits)
- MATH 250 - Discrete Mathematics I **3 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

- CENG 298 - Computer Engineering Colloquium **1 credit**
- 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 (9-11 credits for major)

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

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

- [PHYS 201 - General Physics III](#) **3 credits**

Year 4

Fall Semester (9-11 credits for major)

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

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

- Computer Engineering Elective (3 credits)

Spring Semester (9-10 credits for major)

- Computer Engineering Elective (3 credits)

- Computer Engineering Elective (3 credits)

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