# Electrical & Computer Engineering

## First Year

**Fall**
- EE 155L
- GEN ED
- WRIT 150
- OPTIONAL ELECTIVE

**Spring**
- EE 141L
- PHYS 171L
- GEN ED
- OPTIONAL ELECTIVE

## Second Year

**Fall**
- EE 105
- MATH 129
- GEN ED
- OPTIONAL ELECTIVE

**Spring**
- EE 109L
- PHYS 172L
- GEN ED
- OPTIONAL ELECTIVE

## Third Year

**Fall**
- EE 250L
- EE 202L
- EE ELECTIVE
- OPTIONAL ELECTIVE

**Spring**
- EE 301L
- EE 370
- EE ELECTIVE
- OPTIONAL ELECTIVE

## Fourth Year

**Fall**
- EE ELECTIVE
- GEN ED
- REQUIRED ELECTIVE

**Spring**
- EE 355x
- EE ELECTIVE
- REQUIRED ELECTIVE

### Courses

**ENGINEERING**
- EE 105: Introduction to Electrical Engineering
- EE 109L: Introduction to Embedded Systems
- EE 141L: Applied Linear Algebra for Engineering
- EE 155L: Intro to Comp. Prog. for Electrical Engrs.
- EE 202L: Linear Circuits
- EE 250L: Dist. Systems for the Internet of Things
- EE 301L: Linear Systems
- EE 355x: Software Design for Electrical Engineers
- EE 364: Intro to Probability & Statistics for EE & CS
- EE 370: Electromagnetics for Engineering Systems
- ENGR 102: Engineering Freshman Academy
- CAPSTONE DESIGN ELECTIVE

**EE ELECTIVES**
- A minimum 12 units from the following:
  - Circuits, Signals, & Systems
  - EE 322: Introduction to Digital Audio
  - EE 348L: Electronic Circuits
  - EE 448L: Communication Electronics
  - EE 467: Introduction to Communication Systems
  - EE 479: Introduction to Power Systems
  - EE 470: Electromagnetics II
  - EE 471: Applied Quantum Mechanics for Engineers
  - EE 472: Introduction to Lasers & Laser Systems
  - EE 473: Lasers & Optics Laboratory
  - EE 474: Introduction to Photonics
  - EE 475: Wireless Communication Technology
  - AME 415: Turbine Design & Analysis

**MATHEMATICS**
- MATH 129: Calculus II
- MATH 229: Calculus III
- MATH 245: Mathematics of Phys. and Engr.

**ELECTIVES**
- Your optional electives are one way to build engineering+ into your curriculum by choosing classes of interest to you.

**WRITING**
- WRIT 150: Writing & Critical Reasoning
- WRIT 340: Advanced Writing

**SCIENCE**
- PHYS 171L: Applied Physics I: Mechanics
- PHYS 172L: Applied Physics II: Electricity, Magnetism & Optics
- PHYS 173L: Applied Physics III: Modern Physics

**GENERAL EDUCATION**
- As a USC Viterbi student your General Education (Gen Ed) curriculum will include courses in the Arts, Humanistic Inquiry and Social Analysis.

This is a simplified version of a complex curriculum with options and choices made between advisor and student. Course choices can vary by semester and adjust to include relevant topics and materials. Although every attempt has been made to ensure accuracy, the program requirements listed in the USC Catalogue supersede any information which may be contained in this or any other publication of any school or department. The information found in this document is not intended for advising purposes. The University reserves the right to change its policies, rules, regulations, requirements and course offerings at any time.