

Electrical & Computer Engineering

FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
EE 105	EE 109L	EE 250L	EE 202L	EE 301L	EE 355x	EE ELECTIVE	CAPSTONE DESIGN ELECTIVE
EE 141L	MATH 129	MATH 229	EE 370	EE 364	EE ELECTIVE	GEN ED	GEN ED
EE 155L	PHYS 171L	PHYS 172L	MATH 245	PHYS 173L	EE ELECTIVE	REQUIRED ELECTIVE	REQUIRED ELECTIVE
ENGR 102	GEN ED	GEN ED	GEN ED	WRIT 340	GEN ED	REQUIRED ELECTIVE	REQUIRED ELECTIVE
WRIT 150	OPTIONAL ELECTIVE	OPTIONAL ELECTIVE	OPTIONAL ELECTIVE	OPTIONAL ELECTIVE	OPTIONAL ELECTIVE	OPTIONAL ELECTIVE	OPTIONAL ELECTIVE

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: Analog Integrated Circuit Design
EE 482: Linear Control Systems
EE 483: Introduction to Digital Signal Processing
Computer Engineering

CSCI 360: Introduction to Artificial Intelligence

CSCI 445: Introduction to Robotics

EE 354L: Introduction to Digital Circuits

EE 450: Introduction to Computer Networks

EE 451: Parallel & Distributed Computation

EE 453: Computing Platforms & Paradigms

EE 454L: Introduction to System-on-Chip

EE 457: Computer Systems Organization

EE 477L: MOS VLSI Circuit Design

Electrical Sciences

EE 337L: Engineering Nano-Systems

EE 338: Physical Electronics

EE 443: Introduction to Power Systems

EE 444: Power Systems Technology

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.

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.

WRITING

WRIT 150: Writing & Critical Reasoning

WRIT 340: Advanced Writing

ELECTIVES

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



Courses with this symbol may be satisfied with certain AP, IB or A-Level exams. With each requirement you replace with prior credit, you increase your optional electives, creating more flexibility for you to pursue additional electives and increase your engineering+ education.

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.

USC Viterbi

School of Engineering