

University of Southern California
VITERBI SCHOOL OF ENGINEERING

Bachelor of Science in Electrical and Computer Engineering
Program Learning Objectives

The objectives of the USC Bachelor of Science in Electrical and Computer Engineering program are designed to promote technical competence, professional development, and citizenship in the global community. Graduates might pursue electrical-engineering-related employment or graduate study relating to computer engineering, circuits and systems, or the electrical sciences.

- Upon completion of the USC Viterbi School of Engineering Bachelor of Science in Electrical and Computer Engineering, students will apply their technical skills in mathematics, science, and engineering to the solution of complex problems encountered in modern electrical engineering practice.
- Upon completion of the USC Viterbi School of Engineering Bachelor of Science in Electrical and Computer Engineering, students will model, analyze, design, and experimentally evaluate components or systems that achieve desired technical specifications subject to the reality of technical constraints.
- Upon completion of the USC Viterbi School of Engineering Bachelor of Science in Electrical and Computer Engineering, students will compete effectively in a world of rapid technological change and assume leadership roles within industrial, entrepreneurial, academic, or governmental environments in the broad context of electrical engineering.
- Some graduates who choose to redirect their careers will be employed in diverse fields such as healthcare, business, law, computer science, multimedia, and music through graduate-level studies and the process of life-long learning.
- Graduates will use their communication skills to function effectively both as individuals and as members of multidisciplinary and multicultural teams in a diverse global economy.
- Graduates will engage in highly ethical and professional practices that account for the global, environmental, and social impact of engineering decisions.