The University of Bridgeport’s Electrical Engineering program allows students to study the newest and most important topics, while at the same time broadening their outlook by encouraging them to take courses in related fields.

**Electrical Engineering Overview**

Electrical Engineering is the basis of Computer Engineering, Computer Science, and Biomedical Engineering. We tend to be excited by the breakthroughs in smart phones, i-pads/minicomputer, improved medical machinery, GPS, and a host of other gadgets that make our modern life more exciting and more comfortable. Electrical Engineering is the field that gives us the applied science to build all of these gadgets. It is also the field from which the knowledge will come for the creation of new gadgets and for the improvement of present-day machines.

Since it is a universal degree, the Electrical Engineering graduate is flexible – he or she can learn skills that satisfy the needs of an ever-changing society. This promotes job security for the graduate, and it feeds the appetite of an ever advancing technological culture.

Graduates of this program will obtain a core education in Electrical Engineering in the first three years. The last year is utilized to explore specific areas of interest. Our graduates will have expertise in at least one sub-field such as electricity, machines/controllers, energy/power, signals/communications, materials, and electronic device analysis.

**Electrical Engineering Careers**

- Controls Engineer
- Systems Engineer
- Instrumentation Engineer
- Design Engineer
- Network Engineer
- Hardware Engineer
- Quality Assurance Engineer
- R&D Engineer
- Software Engineer
- Transmission Engineer
- Information Technology Manager
- Telecommunications Engineer
Program of Study

The Electrical Engineering program requires 120 semester credit hours including 48 credit hours in the program core and 54 credit hours in general education and basic sciences. An additional 18 credit hours will be accumulated through elective courses. Electives are chosen from the list of Electrical and Computer Engineering courses at the Junior level (300 level) or the Senior level (400 level).

Program Core Courses (Required)

- EE 337 Analog Electronics Lab I
- CpE Digital System Design I
- CpE 286 Microprocessor System Design
- CS 101/101a Introduction to Computing I
- EE 233/235 Electrical Engineering I w/ Lab
- EE 315 Optical Communications
- English 101 Composition and Rhetoric
- Math 215 Calculus III
- ECON 300 Engineering Economics
- Math 214 Linear Algebra
- Phys 112 Principles of Physics II, with lab

Additional Electives

- EE 334 Energy Conversion
- EE 344 Power Electronics
- EE 350 Communications Lab
- EE 361 Controls Lab
- EE 383 Digital IC design
- EE 387 Embedded Systems Lab
- EE 388 Analog IC design
- EE 403 Radio Frequency VLSI
- EE 404 Digital VLSI
- EE 405 Random Signal Processing
- EE 407 Fuzzy Logic Systems
- EE 410 Biosensors
- EE 411 Advanced PLCs
- EE 412 Introduction to Bioelectronics

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