Program Description
The Bachelor of Science in Electrical Engineering (B.S.E.E.) prepares students to embark upon a professional career in electrical engineering or to begin a graduate program. Electrical Engineering is science-oriented and primarily concerned with all phases and development of the transmission and utilization of electric energy and intelligence. Because of the extremely rapid growth and changes relating to the application of electrical engineering principles, the curriculum is designed to concentrate on a solid core of foundation courses. Twelve hours of electives are included to permit a student to delve deeply into selected subject matter.

About This Major
College: Hal Marcus College of Science and Engineering
Degree: Bachelor of Science in Electrical Engineering (B.S.E.E.)
Required Hours for the Degree: 130
Minors Available: Electrical Engineering
Student Organizations: American Society of Engineering Education (ASEE); Eta Kappa Nu (HKN); Institute of Electrical and Electronics Engineers (IEEE); National Society of Black Engineers (NSBE); Society of Women Engineers (SWE); Florida Engineering Society (FES)
Website: uwf.edu/offices/emerald-coast/degrees-at-emerald-coast/undergraduate-programs
Emerald Coast Phone Number: 850.863.6565

Scholarships
The Electrical and Computer Engineering Department offers a number of undergraduate scholarships. To apply, candidates must complete the application form, which is available on the Electrical and Computer Engineering Department website at uwf.edu/cse/departments/electrical-and-computer-engineering/student-resources/scholarship-information.

Internships and Co-ops
Extensive internship and co-op programs are available that give students the opportunity to earn elective credit, get paid, and get practical, on-the-job experience while working toward their engineering degrees.

Accreditation
The Electrical Engineering program at the University of West Florida is accredited by ABET’S Engineering Accreditation Commission (EAC). ABET is the recognized accreditor for college and university programs in applied science, computing, engineering and technology and is among the most respected accreditation organizations in the United States. ABET accreditation is assurance that a college or a university program meets the quality standards established by the profession for which it prepares its students.

Career Opportunities
• Computers
• Consumer Electronics
• Controls Systems
• Electrical Insulation
• Power Distribution
• Robotics/Unmanned Systems
• Signal Processing
• Wireless Communications
**Common Prerequisites**
Students must have a minimum of a “C” grade.

**Total Hours: 27**
- CHM 2045+L: General Chemistry I (+Lab)
- MAC 2311: Analytic Geometry and Calculus I
- MAC 2312: Analytic Geometry and Calculus II
- MAC 2313: Analytic Geometry and Calculus III
- MAP 2302: Differential Equations
- PHY 2048+L: Calculus-Based Physics I (+Lab)
- PHY 2049+L: Calculus-Based Physics II (+Lab)

**Major Related**

**Total Hours: 9**
- EGS 3441: Engineering Statistics
- EGS 1006: Introduction to Engineering
- General Engineering elective, choose one of the following:
  - EGM 3401: Engineering Mechanics-Dynamics
  - EIN 4354: Engineering Economy
  - EML 3015: Thermal Fluid Systems
  - EML 3022: CAD and Modeling
  - EML 4225: Dynamic Systems
  - EGN 3365: Materials in Engineering

**Major**

**Total Hours: 70**
- EEE 3308+L: Electronic Circuits I (+Lab)
- EEE 4306+L: Electronic Circuits II (+Lab)
- EEE 3396: Solid-State Electronic Devices or EEE 4310 VLSI Circuit Design
- EEL 3111+L: Circuits I (+Lab)
- EEL 3112: Circuits II
- EEL 3135: Discrete-Time Signals and Systems
- EEL 3211+L: Basic Electric Energy Engineering (+Lab)
- EEL 3472: Electromagnetic Fields and Applications I
- EEL 3701+L: Digital Logic and Computer Systems (+Lab)
- EEL 4514+L: Communication Systems and Components (+Lab)
- EEL 4657+L: Linear Control Systems (+Lab)
- EEL 4744+L: Microprocessor Applications (+Lab)
- EEL 4834: Programming for Engineers
- EGM 2500: Engineering Mechanics-Statics
- EGM 4313: Intermediate Engineering Analysis
- EGN 3204: Engineering Software Tools
- EGN 4032: Professional Ethics
- EGN 4950: Capstone Design I
- EGN 4952L: Capstone Design II
- EEL/EEE electives (12 sh)

**Electrical Engineering Advisor Contact:**

Ms. Lori Anderson  
Emerald Coast Location  
Building 2, Room 205  
850.863.6580  
landerson2@uwf.edu

*Program requirements subject to change. Refer to the UWF Academic Catalog for official program requirements for the academic year admitted.*