Program Description
The Bachelor of Science in Computer Engineering (B.S.C.E.) prepares students to embark upon a professional career in computer engineering or to begin a graduate program. Computer engineering deals with the body of knowledge that forms the theoretical and practical basis for the storage, retrieval, processing, analysis, recognition, and display of information. This area also includes the design and implementation of computer systems and peripheral devices for information handling and engineering applications. The computer engineering curriculum provides a balance of hardware, software, and computer theory and applications with a basic background in electrical engineering.

About This Major
College: Hal Marcus College of Science and Engineering
Degree: Bachelor of Science in Computer Engineering (B.S.C.E.)
Required Hours for the Degree: 130
Minors Available: Computer 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

Accreditation
The Computer Engineering degree 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.

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/ece.

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.

Career Opportunities
• Artificial Intelligence
• Computer Design & Architecture
• Computer Theory
• Hardware Applications
• Information Technology
• Operating Systems Networks
• VLSI
• Software Applications
Program Requirements
In addition to the university’s general requirements, students seeking the B.S.C.E. must meet the requirements listed below. Students are required to have a laptop or tablet PC. A minimum course grade of “C” or better is required for a number of the Computer Engineering required courses. Please refer to the UWF Academic Catalog for all requirements.*

uwf.edu/ece

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: 7
- EGS 3441: Engineering Statistics
- Advisor-approved Engineering or Computer Science Elective
- EGS 1006: Introduction to Engineering or Professional Development Elective

Major
Total Hours: 72
- COP 3014: Algorithm and Program Design
- COP 3530: Data Structures and Algorithms I
- COP 4534: Data Structures and Algorithms II
- COP 4634: Systems & Networks I
- COP 4635: Systems & Networks II
- COT 3100: Discrete Structures
- EEE 3308+L: Electronic Circuits I (+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 3701+L: Digital Logic and Computer Systems (+Lab)
- EEL 4712+L: Digital Design (+Lab)
- EEL 4713: Digital Computer Architecture
- EEL 4744+L: Microprocessor Applications (+Lab)
- EGM 4313: Intermediate Engineering Analysis
- EGN 3204: Engineering Software Tools
- EGN 4950: Capstone Design I
- EGN 4952L: Capstone Design II
- EGS 4032: Professional Ethics
- Advisor approved EEL/EEE electives (12 sh)

Computer 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.