Program Description
The Bachelor of Science in Computer Science (B.S.) emphasizes analytical thinking and problem solving involving scientific applications. The degree includes the theoretical foundations of computer science in the study of algorithms, data structures, computer architecture, programming languages and net-centric computing. Concentration areas include intelligent systems, software engineering and cybersecurity.

About This Major
College: Hal Marcus College of Science and Engineering  
Degree: Bachelor of Science (B.S.)  
Required Hours for the Degree: 120  
Minors Available: Computer Science, Mathematics, or a certificate in Cybersecurity.  
Please refer to the UWF academic catalog for more information.  
Website: uwf.edu/computerscience  
Emerald Coast Phone Number: 850.863.6565

Accreditation
The program is accredited under the University with the Commission on Colleges of the Southern Association of Colleges and Schools (SACSCOC). The department is currently seeking accreditation under the Computing Accreditation Commission (CAC) of ABET.

Scholarships
Students in the Department of Computer Science have numerous scholarship opportunities including Michael Paige Douglas Scholarship, Lancy Jens Scholarship, Nick Johnson Scholarship, and the John W. Coffey Computer Science Scholarship Endowment.

Internships and Co-ops
There are numerous local and regional internship opportunities with industrial and governmental employers including Navy Federal Credit Union, AppRiver, Silver Bullet and Avalex.

Career Opportunities
Students in Computer Science have numerous career opportunities in the private and public sector. Career opportunities include:
- Software Engineer
- Software Consultant
- Software Development Project Manager
- Software Quality Assurance Specialist
- Systems Architect
- Network and Systems Administrator
- Data Analyst

Accolades & Achievements
- Third place in ACM Southeast Regional Programming Competition, 2017
- First, second and third place in CodeFest 2017
- First place in Java Programming in AITP National Collegiate Conference
Program Requirements
In addition to the university’s general requirements, students seeking the B.S. in Computer Science must meet the requirements listed below. A minimum grade of “C-” is required for all major and major-related courses with a cumulative major GPA of 2.5 or higher. Students should consult with their academic advisor for courses that may satisfy both the General Studies requirements and common prerequisites.
uwf.edu/computerscience

Common Prerequisites
*Students must have a minimum grade of “C-”.
**Students must have a minimum grade of “C”.
Total Hours: 25
- COP XXXX Intro to programming*
- MAC 2311 Analytic Geometry and Calculus I**
- MAC 2311 Analytic Geometry and Calculus II**
- PHY 2048+L Calculus-Based Physics I (+Lab)**
- PHY 2049+L Calculus-Based Physics II (+Lab)*
- Two science courses for science majors

Major Related
Total Hours: 6
- STA 4321 Intro to Mathematical Statistics I
- Choose one from:
  - MAS 3105 Linear Algebra or
  - MHF 3202 Set Theory & Math. Logic

Major
Total Hours: 54
- CDA 3101 Introduction to Computer Organization
- COT 3100 Discrete Structures
- CEN 3031 Software Engineering I
- CIS 4592 Capstone Project
- COP 4710 Database Systems
- COP 3014 Algorithm and Program Design
- COP 3530 Data Structures and Algorithms I
- COP 4534 Data Structures and Algorithms II
- COP 3022 Intermediate Computer Programming
- COP 4027 Advanced Computer Programming
- COP 4020 Programming Languages
- COP 4634 Systems & Networks I
- COP 4635 Systems & Networks II
- COT 4420 Theory of Computation
- Two 3000/4000 level advisor approved electives
- Choose one group from:
  - CAP 4601 Artificial Intelligence
  - CAP 4786 Big Data Analytics
  or
  - CEN 3032 Software Engineering II
  or
  - CEN 4078 Secure Software Development
  - CNT 4403 Computer & Network Security

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