Computer Science, B.S.

Mission Statement

The mission of the Department of Computer Science is to provide a high-quality, student-oriented educational experience to our undergraduate and graduate students. The department prepares students for successful computing careers by empowering them with the knowledge and skills to contribute responsibly and creatively to a complex and ever-changing world, and to continue professional development and life-long learning. The Department of Computer Science offers a Bachelor's of Science in Computer Science, Cybersecurity, and Software Design & Development.

The B.S. in Computer Science (CS) degree program 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.

Student Learning Outcomes

UWF Computer Science graduates should be able to do the following:

Content

- Identify, analyze, and employ algorithmic concepts, principles, and theories in the design, implementation, and evaluation of computing systems.

Critical Thinking

- Employ computing strategies to analyze and solve problems.

Communication

- Create and deliver effective oral presentations and written reports with appropriate tools and technologies.

Integrity/Values

- Describe ethical issues and responsibilities that relate to a computing professional.

Assessment of Student Learning Outcomes

The program will be assessed annually through a rotating model of assessing one of the four Student Learning Outcome (SLO) per year, completing the program assessment within four years. An Assessment Committee will develop an assessment plan for each year to select the SLO and the corresponding courses that are being assessed. The course coordinators for assessed courses will be charged with developing the instrument for assessment and collecting and submitting the assessment data to the Assessment Committee at the end of the semester for review and to make recommendations for program improvements to the entire faculty.

Job Prospects for Marine Computer Science Graduates

The demand for professionals with IT and software development skills is continuously growing. Students completing the degree will have a wide range of career opportunities including Software Engineer, Software Consultant, Embedded Systems Programmer, Systems Architect, and more.

Find out more about Computer Science at UWF:
https://uwf.edu/programs/hmcse/computer-science-bs/