

COMPUTER SCIENCE

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.

Program Description

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 and software engineering.

Student Learning Outcomes

Student learning outcomes for students in the Computer Science program are listed below. 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.

Project Management

- Employ effective project-management skills to develop computing solutions either individually or through interdisciplinary teams within a global and societal context.

Assessment of Student Learning Outcomes

Students pursuing the undergraduate Computer Science program will demonstrate skills specific to their degree program. Several upper-level courses will give students the opportunity to identify and reflect on degree content, critical thinking, communication, integrity, and project management skills through the completion of assignments that meet departmental standards and integrate what the students have learned. Opportunities to showcase student work will become available as the study progresses, and these include the opportunity to participate in undergraduate research projects with faculty, or to present the results of student work at university or external events.

Job Prospects for Computer Science Graduates

Programmer	Network administrator
Computer scientist	Network programmer
Systems designer	Applications programmer
Software engineer	Database administrator
Software consultant	Database developer
Software systems tester	Data analyst
Software development project manager	Application systems analyst
Embedded systems programmer	Operations manager
Scientific engineer/programmer	Network manager
Systems architect	Project manager
Web architect	Web developer

Find Out More about Computer Science at UWF:

<http://uwf.edu/computerscience/>