

SOFTWARE DESIGN & DEVELOPMENT

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 Descriptions

The B.S. in Software Design & Development (SDD) degree program integrates fundamental concepts in software design and development with concepts in modern programming languages, database systems, software engineering principles, and mobile and net-centric application development. The focus of this program is on the development of high quality software that meets client needs.

Student Learning Outcomes

Student learning outcomes for students in the Software Design & Development program are listed below. UWF Software Design & Development graduates should be able to do the following:

Content

- Identify, analyze, and employ computing concepts and methods in the design, implementation, and evaluation of software.

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 Software Design & Development degree 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 Software Design & Development Graduates

Programmer	Network administrator
Network programmer	Applications programmer
Database administrator	Software consultant
Database developer	Software systems tester
Data analyst	Project manager
Software development project manager	Application systems analyst
Business requirements analyst	Operations manager
Network manager	Web architect
Web developer	

Find Out More about Software Design & Development at UWF: <http://uwf.edu/computerscience/>