MASTER OF COMPUTER SCIENCE

Mission Statement
In support of the University and the College missions, the Department of Computer Science Department has the mission to provide a high-quality, student-oriented educational experience to undergraduate and graduate students in the Northwest Florida region. The department prepares students for successful careers in computing 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.

Student Learning Outcomes
The Computer Science Department offers two graduate specializations within the Masters Degree: Computer Science (CS) and Software Engineering (SE). Students should be able to demonstrate the following competencies:

Content
- Exhibit mastery of one or more contemporary topics of specialization in modern computing.
- Apply computing skills to a specific problem domain (e.g. medical software, high performance computing, etc.).
- (For those who choose the CS specialization) Develop and analyze relevant algorithms and their efficient implementation in a variety of environments.
- (Those who choose the SE specialization) Explain and adapt to the software life cycle, including communicating with users, developing requirements, testing and deploying systems, and managing the whole of the Software Engineering process.

Critical Thinking
- Identify and analyze alternate approaches to the solution of computing problems
- Select and implement appropriate computing science and technology

Communication
- Employ and use effective and professional technical writing skills
- Communicate pertinent issues of computer science through a variety of media, both oral and written, through the appropriate technologies
Project Management

- Conceive, plan, organize and execute a significant months-long project in computing
- Collaborate with team members where appropriate and defend results and outcomes at the end of the project timeline

Evaluation of Student Learning Outcomes

Students entering the Masters program in Computer Science may choose to establish their preparation for graduate study either through proficiency examinations or through relevant coursework. They then take a short series of core courses for one of the two specializations (CS or SE). Each student then enrolls in a program of elective courses, selected in consultation with the department graduate director, leading to a two semester project or thesis that provides the main evaluation of the student's mastery of the chosen topic areas as well as their skills.

Job Prospects for Computer Science Masters Graduates

Computer Scientist
Database Administrator
Network Administrator
Project Manager
Requirements Engineer
Senior Programmer / Analyst
Software Applications Developer

Software Consultant
Software Engineer
Software Quality Assurance Engineer
Software Tester
Systems Engineer
Advanced Graduate Studies

Find Out More About the Computer Science Master's Degree at UWF: http://www.cs.uwf.edu/graduate/grad.html