

## **MASTER'S OF SCIENCE IN ADMINISTRATION**

### **Software Engineering Specialization**

#### **Mission Statement**

*The Departments participating in the MSA program ensure that graduates, in their full diversity, achieve mastery of the skill sets that will enable them not only to perform the professional work tasks in their respective fields competently but also to assume roles as strategic team members who can apply innovative planning and problem solving to further the goals of their organizations.*

#### **Student Learning Outcomes**

Students with a MSA in Software Engineering should be able to do the following:

##### **Content**

- Apply computing concepts to a specific problem domain (e.g. medical software, organizational workflow, high performance computing, etc.).
- Discuss concepts related to software life cycle, including communication with users, developing requirements, testing, leading software development teams, and managing the software development process.

##### **Critical Thinking**

- Identify and analyze alternate approaches to solving computing problems in various application domains.

##### **Communication**

- Employ and utilize effective and professional technical writing skills.
- Communicate, orally and in writing, current issues relevant to software engineering through a variety of media.

##### **Integrity/Ethics/Characteristics**

- Describe ethical issues related to the development and maintenance of software systems.
- Describe resources and standards relevant to the ethical development and maintenance of software systems.

## **Project Management**

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

## **Assessment of Student Learning Outcomes**

MSA-Software Engineering graduate students will be assessed in a two semester capstone experience which is required toward the end of their program of study. The capstone requirement allows students to demonstrate an integrative grasp of the outcomes by developing a research project or software system of appropriate complexity that must abide by ethical standards and make a creative contribution to the field.

## **Job Prospects for Software Engineering Graduates**

Management/Administration positions in companies that use/develop/maintain large, complex software systems. Examples include:

Software publishers

Insurance Carriers

Investment Firms

Technical Consultants

Government Agencies

*Find out more about MSA in Software Engineering at UWF:*

**<http://uwf.edu/msaprogram/msa-sea.cfm>**