

## Intelligent Systems and Robotics, Ph.D.

### Mission Statement

The UWF Ph.D. in Intelligent Systems and Robotics is aligned with the UWF mission and definition. The mission of the UWF Ph.D. in Intelligent Systems and Robotics is to (a) prepare scholars for careers in academia and industry, (b) enable graduates to conduct and evaluate both theoretical and applied research in the area of intelligent systems and robotics, and (c) serve the greater community in the creation and refinement of advanced technological systems.

### Student Learning Outcomes

Students who successfully complete the Ph.D. program in Intelligent Systems and Robotics will be able to demonstrate the following:

### Content

- Analyze, synthesize, and evaluate concepts and models for intelligent systems and robotics, including analyses based on relevant mathematics, statistics, and concepts related to machine learning, knowledge representation, and reasoning.
- Construct and complete a dissertation project that advances knowledge in a focused area of research related to intelligent systems and robotics.
- Design and create specific hardware and/or software that demonstrates proof of concept in conjunction with coursework and dissertation.

### Critical Thinking

- Identify, describe, and appraise the significance of unresolved research questions pertaining to intelligent systems and robotics.

### Communication

- Analyze, synthesize and communicate research results in oral and written form..

### Integrity/Values

- Demonstrate and apply salient professional ethics to the implementation of research.

### Project Management

- Design and conduct team- based research in the field of intelligent systems and robotics, and draw defensible conclusions from that research.

## **Assessment of Student Learning Outcomes**

In addition to course assessment, Ph.D. students are evaluated in three critical junctures in the program: as part of a comprehensive examination (written and oral defense), at proposal defense, and at dissertation defense. Doctoral programs also have specific competencies for doctoral experiences that students must meet through their programs of study.

## **Job Prospects for Intelligent Systems & Robotics Graduates**

This program prepares individuals to act as leaders in education, business and industry, government, and military settings.

- Professor
- Researcher
- Consultant
- Industry Practitioner
- Entrepreneur

***Find out more about Intelligent Systems and Robotics, Ph.D. at UWF:***  
***<https://uwf.edu/programs/hmcse/intelligent-systems-robotics-phd/>***