

### **IT 4893: Internet of Things: Applications and Security**

#### **3 Credit Hours**

*Prerequisite: IT 4823 and IT 4323*

This course introduces core knowledge and skills required to develop and design innovative IoT solutions. Students will analyze the challenges, apply appropriate patterns for user-interaction and learn about trends and characteristics in IoT. In addition, students will evaluate the security design of a suite of IoT-connected products.

### **IT 4983: IT Capstone**

#### **3 Credit Hours**

*Prerequisite: IT 3423, IT 3223, IT 3203*

*Concurrent: IT 4323, IT 4823*

Students work in teams to develop or implement a real-world IT solution integrating the knowledge acquired in preceding IT courses. Components that are emphasized include technical design, research, documentation, project management, leadership, team work, and communication skills. The final result will be an IT solution addressing a typical business or organizational need such as data management or networking, which will be evaluated by faculty members, Industrial Advisory Board members, and project owners.

### **ITEC 3100: Improving Learning with Technology in Elementary Classrooms**

#### **3 Credit Hours**

*Prerequisite: Admission to the Teacher Education program.*

Teacher candidates learn to use technologies to promote student achievement in elementary content area and technology literacy standards. Special topics include using technology to improve students' English language learning, to assess student learning, and to differentiate instruction. Candidates also learn to manage their digital activities in ways appropriate for a professional educator; advocate for students without beyond-school access; and teach K-12 students how to use technology safely, ethically, and legally.