

# INSTRUCTIONAL TECHNOLOGY (ISTC)

---

## Courses

### **ISTC 301 INTEGRATING INSTRUCTIONAL TECHNOLOGY (3)**

Examines operations, applications, and affordances of technologies for learning and teaching. Offers hands-on experience in integrating learning technology into classroom activities. Critically examines strategies that use a variety of technology tools to create learning environments that actively engage students in projects where technology tools enhance the learning process. Laboratory experiences are provided in the operation of instructional hardware and software. Prerequisites: junior/senior standing or consent of department. Lab/Class fee will be assessed.

### **ISTC 470 SPECIAL TOPICS IN LEARNING & TEACHING COMPUTATIONAL THINKING (1)**

Provides a deep understanding of computational thinking concepts and their application in PK-8 education. Through self-directed learning, students will explore computational thinking concepts, apply the concepts across various subject areas and grade levels, and develop proficiency in a block-based visual programming language. Completing the pre-post-assessments for each concept, a cumulative assessment of all CT concepts and reflection, and developing progressively complex coding projects are required. Prerequisite: junior/senior standing or consent of department.