

# Instructional Technology Courses (INSTTECH)

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## Courses

### **INSTTECH 1020 (240:020). Secondary Educational Technology and Design — 2 hrs.**

Design and production of media and the operation of hardware and software for grades 5-12 educational use. Includes selection and use of various educational technologies within an instructional design framework. The following majors are waived from INSTTECH 1020 (240:020): Department of Technology majors, Music Education majors, Art Education majors, Secondary Science teaching majors (Science Education, biology, Chemistry, Earth Science, and Physics), Secondary Business Education teaching majors, Modern Language education majors. (Fall, Spring, Summer)

### **INSTTECH 1030 (240:030). Creating Technology-Enhanced Learning Environments — 3 hrs.**

Students explore how project, problem and inquiry-based learning can be enhanced through technology. Using research as the foundation, students will experience and design blended learning environments where technology tools expand students' opportunities to learn and create. Prerequisite(s): INSTTECH 1020 (240:020) or INSTTECH 1031 (240:031). (Spring)

### **INSTTECH 1031 (240:031). Educational Technology and Design — 3 hrs.**

Selection and use of various educational technologies within an instructional design framework. Includes the design and production of media and the operation of hardware and software for Pre-K-8 educational use. (Fall, Spring, Summer)

### **INSTTECH 4110/5110. Developing and Designing Online Learning — 3 hrs.**

Explore online learning and the special needs/concerns of teaching at a distance. Students will be actively involved in creating effective distance education; engaging online learners; addressing learner needs, and fostering interactive learning environments. Prerequisite(s): junior standing. (Spring)

### **INSTTECH 4131/5131 (240:131g). Exploring Issues and Trends in Instructional Technology — 3 hrs.**

This course prepares educators to critically examine contemporary issues, current research, and emerging trends in instructional technology. It involves investigation of historical technology uses, impact of emerging technologies on teaching and learning, and strategies for making informed decisions concerning equity, ethics, enhancing the curriculum. Prerequisite(s): junior standing. (Fall)

### **INSTTECH 4138/5138 (240:138g). Understanding Visual Literacy — 3 hrs.**

Familiarizes students with the definition and concepts of visual literacy, the impact of visual images on our culture, the creation and use of visuals, the inclusion of visuals in instruction, and teaching critical viewing skills to various audiences. Prerequisite(s): junior standing. (Fall)

### **INSTTECH 4139/5139 (240:139g). Planning and Producing Instructional Media — 3 hrs.**

Teaches planning and production steps essential for creating instructional multimedia projects. Students produce a real-world

instructional multimedia product using the framework of the AECT instructional technology standards. Lab as arranged. Prerequisite(s): INSTTECH 1020 (240:020) or INSTTECH 1031 (240:031) or consent of instructor; junior standing. (Fall, Spring, Summer)

### **INSTTECH 4153/5153 (240:153g). Using Digital and Social Media in Education — 3 hrs.**

Integrating leading-edge research about emerging digital and social media with hands-on experience. Study of emerging applications and instructional implementations. Students create an interactive instructional environment and document their pedagogical choices. Prerequisite(s): INSTTECH 1030 (240:030) or INSTTECH 4139/5139 (240:139g); junior standing. (Fall)

### **INSTTECH 4160 (240:160). Instructional Technology Projects — 1-4 hrs.**

Independent instructional technology projects. Credit to be determined at time of registration; project, credit and evaluation criteria require advance consent of instructor. May be repeated for maximum of 4 hours. (Fall, Spring, Summer)

### **INSTTECH 4170/5170 (240:170g). Supporting Learning with Dynamic Web Design — 3 hrs.**

Focuses on the evaluation and design of electronically-produced materials. Provides students with opportunities to apply basic visual design principles to the development of web-based instructional media. Includes hands-on experience with web site design. Prerequisite(s): junior standing. (Variable)

### **INSTTECH 4186/5186. Studies in Instructional Technology — 1-3 hrs.**

Individualized study of a specific problem or application in an area as determined by instructor and student. Prerequisite(s): junior standing. (Fall, Spring, Summer)

### **INSTTECH 4189 (240:189). Readings in Instructional Technology — 1-3 hrs.**

Independent instructional technology projects. Credit to be determined at time of registration; project, credit and evaluation criteria require advance consent of instructor. May be repeated for maximum of 4 hours for any section. (Fall, Spring, Summer)

### **INSTTECH 6208. Enhancing Learning Through Action Research — 3 hrs.**

Engages in critical reflection to change, and designs and conducts a research cycle of acting, observing, and reflecting. Provides the basis for planning and completing action research. Prerequisite(s): INSTTECH 6240 (240:240). (Fall)

### **INSTTECH 6232 (240:232). Selecting and Integrating Instructional Technology — 3 hrs.**

Examines new technologies that generate need for new literacies for 21st century students. Includes procedures for selection and integration of instructional technologies to support learning. (Fall)

## **Instructional Technology Courses (INSTTECH)**

### **INSTTECH 6237 (240:237). Leading Change Through Instructional Technology — 3 hrs.**

Explores leading change towards 21st century learning. Engages in the processes of technology planning, management, and support in both theory and through practical applications. (Fall)

### **INSTTECH 6240 (240:240). Understanding Instructional Design — 3 hrs.**

Students will apply a systematic instructional design model from the initial analysis through design, development and evaluation. Students will master the fundamental practices upon which the instructional design process is based. (Spring)

### **INSTTECH 6250. Writing a Graduate Paper/ePortfolio — 3 hrs.**

Refines skills in writing a Masters Literature Review: researching, reading, writing and formatting a paper. Masters ePortfolio is organized, formatted and development begins. (Fall)

### **INSTTECH 6260 (240:260). Advanced Instructional Technology Projects — 1-4 hrs.**

Independent instructional technology projects. Credit to be determined at time of registration; project, credit and evaluation criteria require advance consent of instructor. May be repeated for maximum of 4 hours. (Fall, Spring, Summer)

### **INSTTECH 6285 (240:285). Readings in Instructional Technology — 1-3 hrs.**

Reviews individualized selected readings in an area of emphasis as determined by instructor and student. May be repeated for maximum of 3 hours. (Fall, Spring, Summer)

### **INSTTECH 6286 (240:286). Studies in Instructional Technology — 1-3 hrs.**

Individualized study of a specific problem or application in an area as determined by instructor and student. (Fall, Spring, Summer)

### **INSTTECH 6289 (240:289). Seminar in Instructional Technology — 2 hrs.**

Refines the necessary skills to write a Master's paper; includes researching, reading, writing, and formatting the paper. May not be repeated. (Fall, Spring, Summer)

### **INSTTECH 6297 (240:297). Practicum in Instructional Technology — 2-3 hrs.**

(Fall, Spring, Summer)

### **INSTTECH 6299 (240:299). Research — 3 hrs.**

Students will complete their masters literature review/project report/original research/journal article during this course. It should be taken in the final semester of your program. Prerequisite(s): consent of department. (Fall, Spring, Summer)

### **INSTTECH 7340 (240:340). Designing Instructional Systems — 3 hrs.**

Application of current research and theory to the instructional design process. Systematic process of translating principles of learning and instruction, employing several instructional design models. (Variable)