

INSTRUCTIONAL TECHNOLOGY (ITED)

ITED 310. Introduction to Instructional Design/Tech. 3 Hours.

This course introduces the principles and application of instructional design and technology, providing students with an understanding of the process of instructional design as a means of solving instructional problems, as well as an overview of the technology tools used to facilitate learning in classroom, computer-based training, and online environments. Special attention is placed on the effective use of technology to attain instructional objectives.

ITED 315. Introduction to Instructional Technology. 3 Hours.

This course is designed to develop pre-service teachers' skills to evaluate and make informed decisions for the integration of technology to support student learning. Learners will implement a lesson plan technique (GAME PLAN) for self-directed professional growth and leadership for appropriate use of classroom technology in a K-12 environment. Emphasis is placed on integrating the Google Education Suite into the learning environment.

ITED 350. Technology and Digital Literacy. 3 Hours.

This course is designed to assist students with developing skills for using web applications and mobile computing. The activities in the course assist students with promoting critical thinking and problem-solving skills by engaging them with digital tools being used in daily life. Topics covered include: technology in society, computers and digital components, the internet- how it works and making the most of web resources, applications for work and play, and systems software- operating systems, utilities and file management, information technology ethics, understanding and assessing hardware, digital devices and media and protection, information technology careers, software programming, databases and information systems, networking and security. There is an emphasis on using the Microsoft Office Suite of Products in this course including Word, Excel, PowerPoint, and Access.

ITED 426. Instructional Video Development. 3 Hours.

This course teaches principles of instructional video development including designing for learning objectives, effective audio and lighting techniques, video recording and editing. Course is cross-listed with ITED 526. Prerequisite: ITED 315 or ITED 350.

ITED 428. Digital Citizenship, Ethics and Critical Media Evaluation. 3 Hours.

This course is designed to introduce students to the rights and responsibilities of living and working in a digital society. Emphasis will be placed on ethics and legal issues with technology, managing digital identities, understanding permanence of actions in digital environments, digital intellectual property use and distribution, digital privacy, security and data-tracking, and critical evaluation of information retrieved from web sources.

ITED 450. Website Design and ePortfolio Development. 3 Hours.

This course introduces students to developing websites for personal use. The course covers basic web programming using HTML markup language and Cascading Style Sheets (CSS) for design. Students will also be introduced to developing websites using cloud-based web development platforms (Wix, Site Builder, GoDaddy, etc.). An emphasis will be placed on the process and products needed to create an ePortfolio website. Students will research and report on literature that supports evidence based practices for web-design and portfolio.

ITED 480. Management and Development of Instructional Technology Projects. 3 Hours.

This course presents the project development cycle used to plan, manage, and develop instructional technology projects. Students are taught to identify learning objectives, determine the appropriate technologies to accomplish those objectives and manage instruction technology project development through completion and evaluation. Cross-listed with ITED 580. Prerequisite: ITED 315 or ITED 350.

ITED 489. Independent Study. 3 Hours.

This course provides individual instruction. Students may repeat the course when topics vary.

ITED 497. Special Topics. 3 Hours.

Instructors will provide an organized class designed to cover areas of specific interest. Students may repeat the course when topics vary.

ITED 501. Instructional Technology Foundations. 3 Hours.

This course provides an introduction to the field of Instructional Technology (IT). It addresses the fundamentals of Instructional Technology, including the history of the field, instructional systems development (ISD) models, learning theories, instructional design theories, performance technology, trends and issues, and career opportunities. Prerequisite: Instructor permission required.

ITED 511. Teaching with Emerging Technologies. 3 Hours.

The Web 2.0 and other emerging learning technologies have the potential to provide effective and powerful learning environments in which learners can develop skills the information age require. This course explores innovative ways of utilizing emerging technologies to facilitate learning and to improve the way we teach. Topics include blogs, podcasts, wikis, online social networks, virtual worlds, and digital game-based learning. Prerequisite: Instructor permission required.

ITED 512. Evaluation in Instructional Technology. 3 Hours.

This course will focus on two main components: (1) formative and summative evaluation of instructional materials and (2) program evaluations in the field of instructional technology. Students will explore several aspects of conducting evaluations: planning and designing an evaluation, developing appropriate instruments, collecting and analyzing data, and communicating results and recommendations. Prerequisite: ITED 520.

ITED 520. Instructional Design and Development. 3 Hours.

This course provides students with experiences necessary to develop the knowledge, skills, and attitudes required for designing effective instruction that meets the needs of the information age. Students will explore the instructional systems development (ISD) process, from analysis through evaluation, and engage in authentic instruction design activities. This course replaces ITED 502 and 503. Prerequisite: Permission of the instructor.

ITED 521. Instructional Multimedia Design and Development. 3 Hours.

This course prepares students to develop the ability to apply theories of multimedia learning and design principles to multimedia design and produce an effective Web-based multimedia lesson. It addresses theoretical foundations, principles of multimedia learning, multimedia design process, interface design, typography, graphic design, audio and video production, and instructional animations. Prerequisite: ITED 520.

ITED 523. Online Learning and Teaching. 3 Hours.

This course focuses on two major components: (1) research on e-learning and (2) e-learning course development. Students will explore a variety of issues in online teaching and learning, conduct research, and engage in authentic design activities. The activities include developing a design document, interviewing SME's, developing content drafts, writing media scripts, and creating an online course. Prerequisite: ITED 520.

ITED 525. Designing Online Courses. 3 Hours.

This course develops students' ability to create effective online courses. It will focus learners' attention on unique characteristics and qualities of online courses. Learners will design effective experiences and materials to facilitate learning in a variety of online environments. The course is a good complement to ITED 523 - Online Learning and Teaching. It may be taken for an elective.

ITED 526. Advanced Instructional Video Development. 3 Hours.

This course teaches principles of instructional video development including designing for learning objectives, effective audio and lighting techniques, video recording and editing. It also explores effective use of video in the classroom or training setting. This course is cross-listed with ITED 426.

ITED 530. Research in Instructional Technology. 3 Hours.

This course provides an overview of research methodologies. It examines quantitative, qualitative, and mixed methods approaches. Particularly, it emphasizes the need for improving the knowledge base about instruction and focuses on research methods for building design theory. Students will explore diverse research methods, critique research articles and develop research plans.

ITED 532. Leadership in Educational Technology. 3 Hours.

This course aims to prepare students for leadership roles in the Instructional Technology field. It explores leadership theories and models and provides practical guidance for developing basic leadership skills. Beyond the basics, it also examines new roles and skills of leaders for facilitating technology transformation as well as for building learning organization. Cross-listed with AHED 532.

ITED 545. Instructional Gamification Theory. 3 Hours.

Gamification is the application of game-design elements to non-game contexts to improve user engagement, social interaction, and competition towards mastering learning content. This course will introduce students to theories, frameworks and case studies that support gamification in education.

ITED 550. Adv Instr Web Site Development. 3 Hours.

This course introduces students to developing websites for personal use. The course covers basic web programming using HTML markup language and Cascading Style Sheets (CSS) for design. Students will also be introduced to developing websites using cloud-based web development platforms (Wix, Site Builder, GoDaddy, etc.). An emphasis will be placed on the process and products needed to create an ePortfolio website. Students will research and report on literature that supports evidence based practices for web-design and portfolio.

ITED 560. Introduction to Web-Based Instructional Content Development. 3 Hours.

This course teaches principles and application of html and object-oriented programming (using JavaScript). Special attention is placed on fundamental programming techniques, concepts, and documentation as used in instructional software development. Prerequisite: ITED 550.

ITED 580. Advanced Instructional Technology Project Management. 3 Hours.

This course introduces students to the basic processes of project management for instructional design projects. Students will learn about project development cycle, organizational issues, methods of planning, and techniques for managing the business and creative aspects of a successful instructional technology project. In addition, students will learn to use project management software for organizing, scheduling and monitoring project progress. Cross-listed with ITED 480.

ITED 589. Individual Study. 3 Hours.

This course provides individual instruction. Students may repeat the course when topics vary.

ITED 590. Internship in Instructional Technology. 3 Hours.

This course is a supervised, field-based experience in which the student demonstrates ability to apply knowledge, skills, and dispositions acquired through program coursework, to the design, development, evaluation and implementation of technology-based instructional and training projects in a "real-life" work setting. The internship experience provides students the opportunity to apply theories, concepts, and principles of instructional technology to solving an instructional or a training problem in an authentic education or corporate setting. Prerequisite: Instructor permission required.

ITED 597. Special Topics. 3 Hours.

Instructors will provide an organized class designed to cover areas of specific interest. Students may repeat the course when topics vary.