

# INSTRUCTIONAL TECHNOLOGY (IX)

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**IX500: Foundations of Instructional Technology**

This course examines the fundamentals of instructional technology, including the history of the field, instructional design models, learning theories, and instructional design theories, trends, and issues. It explores the foundations of the field by investigating the cognitive processes, underlying learning behaviors, and the relation of these processes to instructional design.

Quarter Credit Hours: 5 | Prerequisite: None

**IX510: Instructional Design**

This course will explore instructional design models commonly used by practitioners. You will examine learner demographics and characteristics, learning contexts, and accessibility requirements for instructional design. You will also explore how different instructional strategies can effectively meet instructional objectives and cater to the specific requirements of both learners and the learning context.

Quarter Credit Hours: 5 | Prerequisite: None

**IX520: Needs Assessment and Evaluation in Education and Training**

This course presents the knowledge and skills necessary to identify training and/or instructional problems and potential solutions. You will explore the advantages and disadvantages of multiple techniques for performing a needs assessment. You will develop skills and collect resources related to the selection and use of analysis methods. You will conduct a needs analysis and submit a report in an education or training context. You will also consider evaluation taxonomies and models, tools, and techniques, and develop an evaluation strategy for an instructional program.

Quarter Credit Hours: 5 | Prerequisite: None

**IX536: Design and Development Tools**

In this course, you will discuss trends and issues of eLearning content development and explore a variety of web-based design and development tools and methods. You will consider the technical and development requirements for eLearning delivered through multiple learning channels and investigate the application of social media tools within education. You will also design original content using web-based authoring tools and software applications.

Quarter Credit Hours: 5 | Prerequisite: None

**IX540: Research Methods**

This course presents an overview of the educational research process and the importance of research to education. The course lays the foundation for conducting research focusing on the characteristics and terminology of research, appropriate ethical considerations involved in the protection of human subjects, proper APA formatting of citations and references, plagiarism issues, and the steps in finding scholarly articles for a review of the literature.

Quarter Credit Hours: 5 | Prerequisite: None

**IX542: Multimedia Design and Development**

This course provides an introduction to the design, development, and evaluation of multimedia content. You will acquire fundamental knowledge and skills essential to designing effective learning and multimedia content. The course will examine the technical and development requirements for multimedia to support learning delivered through multiple channels. You will also consider legal guidelines and best practices for inclusive design.

Quarter Credit Hours: 5 | Prerequisite: None

**IX550: Project Management and Implementation in Education and Training**

This course presents approaches to project management for education and training projects. You will explore concepts of project management and leadership, tools, procedures, and methodologies. You will focus on creating, monitoring, and reporting project plans from the proposal to the implementation stages. You will consider project constraints including time, cost, resource allocation, and scope. Concepts of change management are also explored and applied to implementation strategies used in education and training environments.

Quarter Credit Hours: 5 | Prerequisite: None

**IX565: Design of Learning Environments**

This course presents activities related to the design of a learning environment. You will explore advantages and disadvantages of multiple learning environments and technologies, as well as their essential features. You will develop a plan for a learning environment. Course topics include course delivery methods, universal design and accessibility, personalized instruction, and the integration of emerging technologies within an instructional system.

Quarter Credit Hours: 5 | Prerequisite: None