

# **LTEC MS Program Tracks**

## **(Prior to Fall 2023)**

### **Artificial Intelligence**

As a strand within the Masters of Science Degree in Learning Technologies, the AI track focuses on the applications of AI in education and learning analytics. The AI track consists of four core courses: Foundations of AI in Learning Analytics (LTEC 5701), Applications of AI in Learning Analytics (LTEC 5702), AI technologies for Learning and Performance (LTEC 5703), and Ethical, Social and Cultural Impacts of AI (LTEC 5704). Students will learn how to translate highly technical information in ways that others can understand in order to carry out their jobs.

Students take the following four (4) courses:

- 5701 - Foundations of AI in Learning Analytics
- 5702 - Applications of AI in Learning Analytics
- 5703 - AI Technologies for Learning and Performance
- 5704 - Ethical, Social and Cultural Impacts of AI

### **Instructional Systems**

The Instructional Systems (IS) track provides theoretical and research foundations, tools, and experience focused on instructional systems. Students are immersed in creating, managing, and evaluating instructional systems. They demonstrate these competencies throughout their coursework on using different systems, technologies, and media in various applications. Graduates of the IS track are prepared to work in educational and instructional technology areas as developers of instructional design and media projects, processes and outcomes in corporate, higher education, K-20 and other instructional and training environments.

- LTEC 5040 - Online Design and Pedagogy
- LTEC 5400 - Learning Technologies Telecommunications
- LTEC 5420 - Web Authoring (pre-requisite LTEC 5260)
- LTEC 5570 - Ethical, Legal and Professional Issues in Computing

### **Instructional Systems Technology**

The Instructional Systems Technology (IST) track expands on the Instructional Systems track by focusing on systems and technology used in the delivery of learning. Graduates of the IST track are prepared to work in the same areas as the IS track as well as become directors, managers, or developers of learning systems technology. Students demonstrate these competencies throughout their course work on different systems, technologies, and media in various applications. Graduates work in corporate, higher education, K-20, and other instructional and training environments.

- LTEC 5040 - Online Design and Pedagogy
- And the completion of 3 of the following:
- LTEC 5240 - Authoring Learning Games, Sims and Virtual Environments
- LTEC 5310 - Human-Computer Interaction
- LTEC 5421 - Advanced Web and Media Development

- LTEC 5450 - Building Internet Information Services
- LTEC 5460 - Computer Networks for Learning Environments

### **Instructional Systems Design**

The Instructional Systems Design (ISD) program track is for professionals entering the area of instructional systems design. Instructional systems design is the practice of maximizing the effectiveness, efficiency, and appeal of instruction and other learning experiences. The process consists of determining the current state and needs of the learner, defining the end goal of instruction, and creating instruction to assist in the transition. The process is informed by pedagogically-tested theories of learning. Graduates of the ISD track are prepared to work as instructional systems designers in academic or corporate settings.

- LTEC 5040 - Online Design and Pedagogy
- LTEC 5211 - Instructional Systems Design II
- And the completion of 2 of the following:
- LTEC 5420 - Web Authoring (pre-requisite LTEC 5260)
- LTEC 5421 - Advanced Web and Media Development
- LTEC 5310 - Human-Computer Interaction

### **Teaching and Learning with Technology**

Teaching and Learning with Technology (TLT) is designed for educational professionals serving in administrative, teaching, or research capacities in a variety of educational settings. This track focuses on theoretical foundations, technology skills, technology integration strategies for teaching and learning, active research, innovations in technology, and paradigms for effective online delivery assessment. The degree emphasizes application-oriented technology skills that are valuable for independent study and research, classroom teaching, and personal and professional projects. Graduates of the TLT track are prepared to work with the latest educational technologies and effectively use learning technology to improve teaching and learning. This program track enables professionals to select and evaluate appropriate technology tools based on the needs of students and curricula. The TLT track specifically builds skill sets that empower you to work in educational positions in K-20 and higher education.

- LTEC 5040 - Online Design and Pedagogy
- LTEC 5111 - Introduction to Video Technology
- LTEC 5260 - Computer Graphics for Mediated Communications
- LTEC 5420 - Web Authoring (pre-requisite LTEC 5260)

### **Workforce Leadership & Development**

Students complete four (4) of the following:

- LTEC 5100 - Foundation of Workforce Learning & Development
- LTEC 5121 - Corporate Training Presentation Skills
- LTEC 5470 - Interpersonal Skills Development
- LTEC 5640 - Organization Development, Technology
- LTEC 5650 - Technology Entrepreneurship
- LTEC 5670 - Distributed Leadership

## **Project Management in Workforce Performance**

Student take Project Management then choose 3 of the remaining.

- LTEC 5660- Project Management for Performance Improvement
- LTEC 5470 - Interpersonal Skills Development
- LTEC 5121 - Corporate Presentation Skills
- LTEC 5640 - Organization Development, Technology and Change
- LTEC 5670 - Distributed Leadership
- LTEC 5900 - Advance Project Management