Learning Systems Technology

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Dickinson Hall, Room 419, (501) 569-3267, Website

Master of Education in Learning Systems Technology

The Master of Education in Learning Systems Technology (LSTE) program's mission is to prepare instructional designers and learning scientists for careers in public schools, community colleges, higher education institutions, business, industry, government, military, and medical settings or facilities. Specifically, the program enables instructional designers to act in teaching and administrative roles in order to analyze problems and apply solutions for learning, including planning, preparation, implementation, evaluation, and management. Aspects of the program include the psychology and development of diverse learners, learning resources development and application, and societal concerns pertaining to instructional technology.

The program includes three major areas in instructional technology:

1. **Instructional program development:** consideration of the broad problem of developing a complete system of instruction, a total application of technology, and mediated instruction to facilitate learning;
2. **Educational technology product development:** the practice of creating packages of mediated instruction and the translation of specific instructional objectives into concrete items that facilitate learning; and
3. **Educational technology management:** an investigation of support services for both instructor and learner; considers principally a "responsive" service; includes aspects of location, selection, acquisition, organization, storage, retrieval, distribution, and maintenance of both materials and devices. For more information visit LSTE program.

Admissions Requirements

All applicants for both regular and conditional admission must submit a Biographical Data Form.

Regular Admission (additional requirements)

- Baccalaureate degree from a regionally accredited institution with a cumulative grade point average of at least 3.0 (4.0 scale),

  or

- GPA of at least 3.25 for the last 60 hours of undergraduate courses,

  or

- Master's degree from a regionally accredited institution with a cumulative grade point average of at least 3.25.

Conditional Admission (additional requirements)

- Baccalaureate degree from a regionally accredited institution; a cumulative undergraduate GPA of no lower than 2.75;
  or

- Completion of at least 9 semester hours of graduate course work in another UALR graduate program or a graduate program from another accredited college or university with a cumulative GPA of at least 3.0.

Program Requirements

Performance Requirements

- A minimum score of B is required for each of the required courses in the program study.
- A required course with a grade of C does not satisfy the degree requirement and must be repeated.
- All students must maintain a cumulative GPA of 3.00 to be in good standing in the program.
  - Those not maintaining at least a GPA of 3.00 will be placed on academic probation.
  - Students who fail to remove the probationary status by raising their cumulative GPA to 3.00 or better within the next 12 credit hours are subject to dismissal from the LSTE program.
- Deviation from the degree plan requires the approval of the LSTE coordinator.

Educational Foundations Required Courses (9 hours)

EDFN 7313 Learning Theory and Instructional Applications
EDFN 7314 Cognition and Instruction
EDFN 7370 Educational Assessment (Required beginning Spring 2014)

Learning Systems Technology Required Courses (21 hours)

LSTE 7303 Foundations of eLearning
LSTE 7304 eLearning Environments and Education
LSTE 7307 Research in Human-Technology Interaction
LSTE 7311 Introduction to Instructional Design
LSTE 7315 Instructional Design: Accessible and Universal
LSTE 7317 Mobile Learning Environments
LSTE 7323 Advanced Instructional Design

Possible Electives chosen from the following: (6 hours)

LSTE 7313 Perception, Meaning, and Messages
LSTE 7316 Applied Theories of Instructional Design
LSTE 7329 Trends in eLearning
EDFN 7302 Introduction to Program Evaluation
OR EDFN 7303 Introduction to Educational Research
EDFN 7304 Basic Statistics
EDFN 7308 Multicultural Education Trends and Issues
EDFN 7330 Human Development
RHET 5302 Technical Reports
RHET 5304 Technical Style and Editing
RHET 5375 Grant Writing
Other (requires prior approval by the advisor)

Graduation Requirements

- Successful completion of approved program of study
- Passing the comprehensive exam or successfully defending a portfolio presentation

Courses in Learning Systems Technology

LSTE 7101, 7200, 7300 Independent Study
Designed to be variable in credit and emphasis depending on the interests of the learner and the expertise of the faculty member in the general area of Learning Systems Technology, primarily devoted to subjects of an evolving nature.

LSTE 7101, 7201, 7301 Workshop in Learning Systems Technology
To meet special needs of students. Offered on demand

LSTE 7303 Foundations of eLearning
LSTE 7303 is the foundational course that explores the connections between educational psychology and the pedagogy of effective instruction in society. Instructional interventions and their potential improvement of society through the application of eLearning tools are surveyed.

LSTE 7304 eLearning Environment and Education
LSTE 7304 explores technology-based eLearning environments within a framework that aligns purpose, pedagogy, and assessment practices. Candidates will learn how to identify the correct technological tools based on the learning activity. Develop pedagogical practices that support the use of the tool(s) identified, and align assessment practices that correctly measure the desired learning outcomes.

LSTE 7305 Survey of Computer-based Learning Systems
Prerequisite: LSTE 7303. Applications of microcomputers in the educational setting; includes parameters of microcomputers, standard and predicted uses in instruction. Offered all terms.

LSTE 7306 Digital Photography and Learning Systems
Prerequisite: LSTE 7303. Concepts, theoretical foundations for production, use of still photography in the educational process; students photograph, process, arrange pictures for instructional applications. Three hours lecture/demonstration. Offered in fall and summer I.

LSTE 7307 Research in Human-Technology Interaction
Candidates will participate in a broad graduate-level introductory course of HTI research. The course begins with seminal work on interactive systems and moves through current and future research areas in interaction techniques and the design, prototyping, and evaluation of user interfaces.

LSTE 7308 Digital Television and Learning Systems
Prerequisite: LSTE 7306. Concepts, theoretical foundations for production, use of instructional television, videotape in the educational process; students write, produce five instructional units in video delivery system format. Three hours lecture/demonstration. Offered in spring and summer II.

LSTE 7309 Administration of Learning Systems Technology
Prerequisites: LSTE 7303, 7305, 7310, 7320. Problems, responsibilities in establishment, maintenance, improvement of educational media services in public schools, colleges, businesses, industries, medical professions. Offered in spring and summer II.

LSTE 7310 Systematic Integration of Technology in Learning Systems
Prerequisites: LSTE 7303, 7305; EDFN 7313, 7314. Production, application of interactive instructional units where the microcomputer is the controlling medium for such peripherals as laser disk players and CD-ROM units.

LSTE 7317 Mobile Learning Environments
Candidates in LSTE 7317 develop technical, instructional, and design skills to create effective interactive educational programs for a mobile learning environment. The course applies basic principles of mobile learning to just-in-time training environments that provide ample opportunity for team building and collaboration. Management, development, and creation of mobile learning content are discussed.

LSTE 7320 Intranet and Internet Learning Systems
Prerequisite: LSTE 7303, 7305. New media technologies, application to education; emphasis on instructional use of cable television, videotext, facsimile, satellites, optical disc, interactive video, microforms, data bases. Offered in fall and summer.

LSTE 7325 Assessment in Learning Systems Technology
Prerequisites: LSTE 7303, EDFN 7313, EDFN 7314. This course presents a variety of strategies for assessment of learning by examining the purposes for collecting student achievement data, measurement, concerns in technology rich environments, and practical interpretations and applications of assessment data.

LSTE 7329 Trends in eLearning
Prerequisite: LSTE 7311. LSTE 7329 explores trends in eLearning for instructional purposes, including but not limited to gaming and simulations. The class includes the analysis of the appropriate kinds of activities to support different learning outcomes and the demonstration and discussion of how instruction and assessments align.

LSTE 7330 Distance Learning Systems Technology
Prerequisites: LSTE 7303, LSTE 7305, EDFN 7313, EDFN 7314. This course presents the current choices in what is termed "distance education." The creation of at least one course to be delivered via one of the major distance learning strategies will be required.

LSTE 7350 Internship
Prerequisites: all required program courses. Students work 150 clock hours at a professional instructional media site (public school, industry, business, etc.) for practical on-the-job experiences in the three major specialty areas of instructional program development, media product development, and media management.

LSTE 7360 Seminar
Prerequisite: LSTE 7303. Trends, problems of current, emerging technology pertaining to instruction. Offered on demand.