Master of Education in Learning Systems Technology

The Master of Education in Learning Systems Technology (LSTE) prepares students in the field of instructional technology for careers in public schools, community colleges, higher education institutions, business, industry, and medical settings or facilities. Educational technologists analyze problems in all aspects of human learning; they revise, implement, evaluate, and manage solutions to those problems. Aspects of the program include the psychology and development of the learner, learning resources development and application, and societal concerns pertaining to instructional technology. Because these careers deal with services to the entire population, all courses in this program make specific efforts to include the needs of the handicapped and exceptional learners.

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 on the LSTE program, visit ualr.edu/med/LSTE/.

Admissions Requirements

All applicants for both Regular and Conditional Admission statuses must have completed an online College of Education Biographical Data Form.

Regular Admission (additional requirements)

- Baccalaureate degree from a regionally accredited institution with a cumulative grade point average of at least 2.75 (4.0 scale), or
- Grade point average of at least 3.0 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 3.0

Conditional Admission (additional requirements)

- Baccalaureate degree from a regionally accredited institution; a cumulative undergraduate GPA of no lower than 2.75; and a Graduate Record Exam (GRE) score of at least 370 on the Verbal Scale, 440 on the Quantitative Scale, and 4.5 on the Analytical Writing Scale, or
- Completion of at least 12 semester hours of graduate course work in another UALR graduate program or graduate program from another regionally accredited college or university with a cumulative GPA of at least 3.0 and no grade lower than a B

Educational Foundations Required Courses

EDFN 7303 Introduction to Educational Research (An elective beginning Spring 2014)
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

LSTE 7303 Foundations of eLearning
LSTE 7305 Survey of Computer-Based Learning Systems
LSTE 7310 Systematic Integration of Technology in Learning Settings
LSTE 7320 Intranet and Internet Learning Systems
LSTE 7325 Assessment in Learning Systems Technology
LSTE 7330 Distance Learning Systems Technology

Possible Electives chosen from the following:

LSTE 7306 Digital Photography and Learning Systems
LSTE 7308 Digital Television and Learning Systems
LSTE 7309 Administration of Learning Systems Tech
EDFN 7304 Basic Statistics
EDFN 7320 Advanced Educational Psychology
EDFN 7330 Human Development
RHET 5302 Technical Reports
RHET 5304 Technical Style and Editing
RHET 5306 Writing for Business and Government
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, videocassette 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.