

# Learning, Design, and Technology

## M.S. degree offered by Penn State University Park only

### Program Requirements



Students in the University Park LDT M.S. program are required to complete a minimum of 36 approved credits — including the 9-credit LDT core (LDT 415, LDT 467, and LDT 527), 12 credits of professional application courses, and 15 credits of research methods and thesis research. These courses can be selected from the list of recommended courses below or others can be chosen in consultation with your LDT advisor. All students need to write and submit an approved master's thesis, prior to graduation. All students must also meet the Penn State SARI training requirement.

NOTE: each student needs a minimum of 18 credits at the 500-to 800-level to graduate.

#### Required LDT classes: 9 credits

- LDT 415, 415A, or 415B Systematic Instructional Development (formerly INSYS 415)
- LDT 467 Emerging Web Technologies and Learning (formerly EDTEC 467)
- LDT 527 Design of Constructivist Learning Environments (formerly INSYS 527)

**LDT, EDTEC, or INSYS classes: 12 credits** from the recommended course list below. You may choose other courses with your advisor's prior approval. Remember, you need 18-credits at the 500- or 800-level.

- LDT 401 Gaming 2 Learn (formerly INSYS 497)
- LDT 433 Teaching and Learning Online in K-12 Settings (formerly INSYS 433)
- LDT 440 Educational Technology Integration (formerly EDTEC 440)
- LDT 505 Integrating Mobile Technologies into Learning Environments
- LDT 550 Learning Design Studio
- LDT 561 Measuring the Impact of Technology on Learning (formerly EDTEC 561)
- LDT 566 Computers as Learning Tools (formerly EDTEC 566)
- LDT 581 Theoretical Foundations of LDT
- LDT 832 Designing e-Learning for Course Management Systems

**Research preparation: 6 credits** of research methods courses with adviser approval, which can include, but are not limited to:

- STAT 500 Applied Statistics
- STAT 800 Applied Research Methods (formerly STAT 897)
- ADTED 550 Qualitative Research in Adult Education
- LDT 574 Applied Qualitative Research for Work Practice, Innovation, and Systems Design (formerly INSYS 574)
- LDT 575 Designing Experimental Research in Learning, Design, and Technology (formerly INSYS 575)
- LDT 576 Design-based Research Methods, Applications for Educational Research (formerly INSYS 576)
- EDPSY 406 Applied Statistical Inference for the Behavioral Science
- EDPSY 475 Introduction to Educational Research
- EDPSY 505 Statistical Applications in Educational Research

~ continued ~

### **Master's thesis research: 9 credits**

- 3 credits of LDT 594 – Research Apprenticeship
- 6 credits of LDT 600 Thesis Research and/or LDT 610 Thesis Research Off-Campus

### **Two other requirements of the LDT M.S. degree**

1. **Master's thesis**, approved by your LDT M.S. committee and the Penn State Graduate School

- You must have two members of the Penn State LDT graduate faculty as your M.S. Committee.
- Your committee will read your thesis, provide feedback, and approve your final document once all necessary changes to the document are made.
- See the Penn State Graduate School guidelines and schedule for the precise details and deadlines for signing up for graduation, the document's format check, and submitting the final M.S. thesis document.
  - Writing your M.S. thesis is a two to three semester project.
  - You are responsible for meeting all of the Penn State Graduate School deadlines.
  - Work to establish internal deadline with your advisor for reviewing drafts or outlines of your work as needed.
  - Give your committee adequate time to read and provide feedback on your work. You should plan for your committee to have at least two weeks with each draft of your thesis.

2. **SARI training**

- Pass with an 80% or higher the online, non-credit **CITI course in Human Subjects Research** that is linked on the Penn State Office of Research Protections website: <http://citi.psu.edu/>. Click on the link for University Park students.
  - Email a pdf documenting that you passed the CITI course with a score of 80% or higher to Laurie Heininger at [lah58@psu.edu](mailto:lah58@psu.edu).
- Take and pass 3-credits of a methodology course that discusses research ethics.
  - The four approved courses for M.S. students are LDT 594, LDT 574, LDT 575, and LDT 576. You must take one of these four courses to meet the SARI requirement.
  - This SARI requirement can be met by completing the thesis research and/or research preparation coursework requirements that are listed in the above.