This program provides advanced professional preparation in the development of effective, efficient instructional materials and the use of technology to support learning in a variety of educational settings. The program of study applies skill and knowledge from the fields of the learning sciences, instructional design, computer technologies, and research methodologies to study educational designs and their effect on learning. Graduates are employed as instructional designers by corporate, agency, and military training departments; entrepreneurial consulting companies; public school districts; museums, nature centers, and other informal learning settings; community college learning resource centers; and colleges and universities.

**Admission Requirements**

Applicants apply for admission to the program via the Graduate School application for admission (http://gradschool.psu.edu/prospective-students/how-to-apply/). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions Policies (http://gradschool.psu.edu/graduate-education-policies/).

Scores from the Graduate Record Examinations (GRE) (for master’s or doctorate) or Miller Analogies Test (for master’s), transcripts, letters of reference, application letter, and writing assignment are required for admission.

Requests to waive the GRE requirement may be submitted by applicants for the M.Ed. who have successfully completed coursework for the Postbaccalaureate Certificate in Educational Technology Integration with a GPA greater than 3.5. However, GRE scores will be required to apply to the doctoral program.

**Degree Requirements**

**Master of Education (M.Ed.)**

Requirements listed here are in addition to Graduate Council policies listed under GCAC-700 Professional Degree Policies (http://gradschool.psu.edu/graduate-education-policies/).

At least 18 credits must be taken at the 500 level or above, with at least 6 credits at the 500 level. Students in the M.Ed. program are required to complete a program of a minimum of 30 approved credits including:

1. Complete a program of a minimum of 30 approved credits including:
   - At least 18 credits must be taken at the 500 level or above, with at least 6 credits at the 500 level. Students in the M.Ed. program are required to complete a program of a minimum of 30 approved credits including:
   - 21 credits of professional application courses chosen in consultation with an adviser. These courses can be chosen from, but are not limited to:
     - Systematic Instructional Development (LDT 505)
     - Emerging Web Technologies and Learning (LDT 467)
     - Video in the Classroom (LDT 449)
     - Integrating Mobile Technologies into Learning Environments (LDT 505)
     - Learning Design Studio (LDT 550)
     - Computers as Learning Tools (LDT 566)
     - Theoretical Foundations of Learning, Design, and Technology (LDT 581)
     - Designing e-learning Within Course Management Systems (LDT 832)

   - Total Credits: 30

**Master of Science (M.S.)**

Requirements listed here are in addition to Graduate Council policies listed under GCAC-600 Research Degree Policies. (http://gradschool.psu.edu/graduate-education-policies/)

At least 18 credits must be taken at the 500 level or above, with at least 6 credits at the 500 level. Students in the M.S. degree program are required to complete a minimum of 36 approved credits including:

1. Complete a program of a minimum of 30 approved credits including:
   - 21 credits of professional application courses chosen in consultation with an adviser. These courses can be chosen from, but are not limited to:
     - Systematic Instructional Development (LDT 505)
     - Emerging Web Technologies and Learning (LDT 467)
     - Video in the Classroom (LDT 449)
     - Integrating Mobile Technologies into Learning Environments (LDT 505)
     - Learning Design Studio (LDT 550)
     - Computers as Learning Tools (LDT 566)
     - Theoretical Foundations of Learning, Design, and Technology (LDT 581)

   - Total Credits: 30
Doctor of Philosophy (Ph.D.)
Requirements listed here are in addition to Graduate Council policies listed under GCAC-600 Research Degree Policies. (http://gradschool.psu.edu/graduate-education-policies/)

Credit and course requirements: Ph.D. students in LDT must complete a set of core competencies in instructional design, learning sciences and technology, research methodology, and research apprenticeship. Doctoral students must complete a minimum of 30 LDT credits to include 9 credits of LDT doctoral core courses, 9 credits of technology, research methodology, and research apprenticeship. Doctoral candidates must produce and show no deferred or failing grades in courses related to the degree program on their graduate transcript.

Prior to the comprehensive exam, the student, in consultation with his or her adviser, will convene a Ph.D. committee that meets all Graduate Council requirements (http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/phd-dissertation-committee-formation/). After the completion of all course work, the doctoral student must complete a comprehensive examination. All doctoral candidates must produce and write a doctoral dissertation and hold a final oral examination in defense of the dissertation.

Dual-Titles
Dual-Title M.Ed., M.S., and Ph.D. in Learning, Design, and Technology and Comparative and International Education
Requirements listed here are in addition to requirements listed in GCAC-208 Dual-Title Graduate Degree Programs (http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/gcac-208-dual-title-graduate-degree-programs/).
Admission Requirements
Students must apply and be admitted to the graduate program in Learning, Design, and Technology and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions requirements of the Comparative and International Education dual-title program. Refer to the Admission Requirements section of the Comparative and International Education Bulletin page (http://bulletins.psu.edu/graduate/programs/majors/comparative-international-education/). Doctoral students must be admitted into the dual-title degree program in Comparative and International Education prior to taking the qualifying examination in their primary graduate program.

Degree Requirements
To qualify for the dual-title degree, students must satisfy the degree requirements for the degree they are enrolled in Learning, Design, and Technology. In addition, students must complete the degree requirements for the dual-title in Comparative and International Education, listed on the Comparative and International Education Bulletin page (http://bulletins.psu.edu/graduate/programs/majors/comparative-international-education/).

The qualifying examination committee for the dual-title Ph.D. degree will be composed of Graduate Faculty from Learning, Design, and Technology and must include at least one Graduate Faculty member from the Comparative and International Education program. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. There will be a single qualifying examination, containing elements of both Learning, Design, and Technology and Comparative and International Education. Dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the qualifying examination may be delayed one semester beyond the normal period allowable.

In addition to the general Graduate Council requirements for Ph.D. committees (http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/phd-dissertation-committee-formation/), the Ph.D. committee of a Learning, Design, and Technology and Comparative and International Education dual-title Ph.D. student must include at least one member of the Comparative and International Education Graduate Faculty. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. If the chair of the Ph.D. committee is not also a member of the Graduate Faculty in Comparative and International Education, the member of the committee representing Comparative and International Education must be appointed as co-chair. The Comparative and International Education representative on the student’s Ph.D. committee will develop questions for and participate in the evaluation of the comprehensive examination.

Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their Ph.D. committee and reflects their original research and education in Learning, Design, and Technology and Comparative and International Education. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. The dissertation must be accepted by the Ph.D. committee, the head of the graduate program, and the Graduate School.

Minor
A graduate minor is available in any approved graduate major or dual-title program. The default requirements for a graduate minor are stated in Graduate Council policies listed under GCAC-600 Research Degree Policies (http://gradschool.psu.edu/graduate-education-policies/) and GCAC-700 Professional Degree Policies (http://gradschool.psu.edu/graduate-education-policies/), depending on the type of degree the student is pursuing:

- GCAC-611 Minor - Research Doctorate (https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/gcac-611-minor-research-doctorate/)
- GCAC-641 Minor - Research Master’s (https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/gcac-641-minor-research-masters/)
- GCAC-709 Minor - Professional Doctorate (https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-700/gcac-709-professional-doctoral-minor/)
- GCAC-741 Minor - Professional Master’s (https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-700/gcac-741-masters-minor-professional/)

Student Aid
Graduate assistantships available to students in this program and other forms of student aid are described in the Tuition & Funding (http://gradschool.psu.edu/graduate-funding/) section of The Graduate School’s website. Students on graduate assistantships must adhere to the course load limits (http://gradschool.psu.edu/graduate-education-policies/gsad/gsad-900/gsad-901-graduate-assistants/) set by The Graduate School.

A limited number of graduate assistantships are available to students in this program.

Courses
Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

Learning Design and Technology (LDT) Course List (https://bulletins.psu.edu/university-course-descriptions/graduate/ltd/)

Learning Outcomes
Master’s Degrees
1. Know/Think: Graduates will demonstrate practical knowledge of the core theories and best practices in the field of learning, design, & technology (LDT).
2. Apply/Create: Graduates will be able to design and develop educational resources in accordance with the core theories and best practices in LDT.
3. Apply/Create: Graduates will demonstrate the ability to analyze and integrate teaching/learning technologies to unique educational contexts in accordance with the core theories and best practices in LDT.
4. Communicate/Think: Graduates will be able to convey ideas or arguments in clear, concise, well-organized papers, proposals, and portfolios as well as in formal, oral presentations.
5. Professional practice: Graduates will demonstrate knowledge of the professional standards, and values, integrity, and ethics in the
LDT field and at Penn State through written or oral products, and professional interactions with colleagues.

**Doctor of Philosophy (Ph.D.)**

1. **Know/Think:** Graduates will demonstrate in-depth knowledge of the core theories and research methods in the field of learning, design, & technology (LDT). The core demonstration will include the comprehension of theories of learning sciences and LDT to conceptualize problems of educational practice.

2. **Apply/Create:** Graduates will be able to formulate and execute an independent research project that significantly furthers knowledge and theories in LDT.

3. **Apply/Create:** Graduates will demonstrate the ability to apply theories to inform/develop unique designs and solutions to educational problems.

4. **Communicate/Think:** Graduates will be able to convey ideas or arguments in clear, concise, well-organized papers and proposals as well as in formal, oral presentations.

5. **Professional practice:** Graduates will demonstrate knowledge of the professional standards, and values, integrity, and ethics in the field and at Penn State through written and oral products, and professional interactions with colleagues.

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**Contact**

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**Program Website**

View (http://ed.psu.edu/lps/ldt/)

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