



**M.S. LEARNING  
TECHNOLOGIES &  
MEDIA SYSTEMS  
PROGRAM**



**HARRISBURG  
UNIVERSITY**  
OF SCIENCE AND TECHNOLOGY



**#1 STEM  
UNIVERSITY**  
in the USA | Corporate LiveWire





## THE PROGRAM OBJECTIVES OF THE LTMS PROGRAM

The LTMS program is a rigorous and systematic exploration of the field. At the end of the program, you should expect to be able to do the following:

- Analyze performance improvement opportunities to determine appropriate solutions
- Create engaging learning solutions to improve performance
- Evaluate the effectiveness and efficiency of learning solutions
- Achieve the management of knowledge through digital communication.



**TEXTBOOK** | While each course may (or may not) have specific textbook requirements, there is one book that provides information on every area of study. The book is: Reiser, R. A., & Dempsey, J. V. (2018)

Trends and Issues in Instructional Design and Technology New York: Pearson, All faculty members in the LTMS program have a copy of this book and have reviewed it. It provides a solid, academic introduction to every current topic of interest in the field. It should be a reference while you are here at Harrisburg University and afterward. Please purchase this text as soon as possible.

## M.S. LEARNING TECHNOLOGIES & MEDIA SYSTEMS PROGRAM

## PROGRAM OVERVIEW | 36 SEMESTER HOURS

### What are Learning Technologies?

Since the advent of the computer, there has been an increased focus on how technology can help with education and training. Learning Technologies are those things that help teachers teach, students perform, and administrators track successful outcomes. They are the technologies that have expanded our educational horizons in ways that were not possible before the advent of the computer.

### Who is the LTMS Program Audience?

The LTMS program serves the needs of two separate populations:

- Schoolteachers who wish to learn the best way to use the tools they have in their classrooms. The program offers an Instructional Technology Specialist Certification for the Pennsylvania Department of Education for schoolteachers.
- Corporate trainers who need to deliver quality training to large populations of learners

### How is the LTMS program organized?

The LTMS program is made up of three major sections that consist of 36 graduate credits:

- **15 Credits from the Program Core**  
This will provide the foundation of the topics in the discipline
- **15 Credits of Electives**  
These allow the student to pursue their specialized interests in the field.
- **6 Credits Comprise the Graduate Capstone**

### CONTACT INFORMATION

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For more information about the science & technology-based majors offered at Harrisburg University, visit [www.HarrisburgU.edu](http://www.HarrisburgU.edu).

## LTMS CORE

All students must take 5 elective courses during their studies. These can be in LTMS topics or other areas of interest to the student, such as Analytics or Projec Management. While there are many electives in LTMS that students can select (check the catalog), the most common are:

LTMS 500	Instructional Design Methods and Procedures	LTMS 518	The assembly of eLearning elements using Articulate
LTMS 510	Instructional Development Hardware and Software	LTMS 525	Theories of Learning and how they relate to and shape the selection of the available technology
LTMS 514	Creating Instructional Elements (video, graphics, etc.)		

## LTMS ELECTIVES

All students must take 5 elective courses during their studies. These can be in LTMS topics or other areas of interest to the student, such as Analytics or Project Management. While there are many electives in LTMS that students can select (check the catalog), the most common are:

LTMS 515	History of Learning Technologies	LTMS 531	Introduction to Games and Simulations
LTMS 519	Advanced eLearning Development (using Articulate)	LTMS 532	Writing Advanced Simulations
LTMS 520	Learning Assessment	LTMS 636	Micro Instructional Design

## LTMS CAPSTONE

A two-course sequence provides you with an opportunity to develop a project that solves a real problem. You may use this project in your portfolio as an example of professional work. The two courses are:

GRAD 695	Research Methodology. Here you will research something interesting to you and the LTMS community. Then, you will write a 25-page paper describing what you found and how you plan to implement this in your practice. "A" papers will be published on the Harrisburg University Website.
LTMS 698/699	Experiential project. Here you will work with your school or your business to implement a learning project based on your research in 695.



## PARTNERSHIP WITH PD CAMPUS

Harrisburg University has partnered with PD Campus, a K-12 continuing education company delivering innovative professional development for Pennsylvania School Teachers (<https://pdcampus.org/>). This partnership will allow any K-12 educator in Pennsylvania to take courses through PD Campus that can be applied towards a Harrisburg University's Masters in Learning Technologies & Media Systems.

## HU PD CAMPUS COURSES

**EDUC 500:** Teaching and Learning with iPads

**EDUC 510:** Teaching and Learning with Google

**EDUC 511:** Integrating Google in Learning

**EDUC 520:** Creativity through Video Game Design

**EDUC 522:** Reinventing Learning through STEM (STEM Camp Edu)

**EDUC 530:** Foundations for Effective Technology Integration

## COMPUTERS & SOFTWARE

The Harrisburg University website lists various requirements for laptops. These can be found here: <http://HarrisburgU.edu/laptop-requirements/> The LTMS program is deeply interconnected with computer technology. We study how it is used to teach, learn, present information, and administer learning. Because of this, there are additional suggestions regarding computers and software for LTMS students:

- Multiple LTMS courses use Articulate 360 as our development environment. This software is provided at no cost to LTMS students; however, this software will only run under the Windows 10 operating system. If you have an Apple, you must, at your own expense, obtain and install dual-boot software and obtain the Windows OS.
- The Harrisburg University IT organization does not provide support for this option. The ability of LTMS faculty members to support multiple configurations is also limited and outside the scope of the course content. We apologize for this. We cannot troubleshoot student systems and teach the course content.
- Some classes (i.e., LTMS 514) may require students to use Adobe Creative Cloud. This is not provided by the University but can be obtained for a nominal monthly fee from a variety of sources, including companies like Academic Superstore

**INTERNATIONAL STUDENTS** | The University has created a streamlined process for accepting international student applications. Email: [F1@HarrisburgU.edu](mailto:F1@HarrisburgU.edu) and a custom application will be sent. Complete the scanned application and return it via email with copies of the following documents:

- Goal Statement
- Transcripts
- Visa/Passport
- Resume/Vita
- Affidavit of Financial Support
- Letters of Recommendation
- TOEFL, IELTS or GRE Score

Harrisburg University of Science and Technology, in accordance with applicable federal and state laws and university policies, does not discriminate based on race, color, national origin, sex, age, disability, medical status, sexual orientation, gender identity, or status as a veteran. The university also prohibits sexual harassment. This nondiscrimination policy covers admission, access, operation of university programs and activities, and employment. This policy is in accordance with the following laws, as amended, and their implementing regulations, to the extent and in the circumstances that they are applicable to the university: Titles VI and VII of the Civil Rights Act of 1964; Title IX of the Educational Amendments of 1972; the Americans with Disabilities Act of 1990; and Section 504 of the Rehabilitation Act of 1973.

*A copy of HU's Annual Security Report, which reflects the current status and historical data of campus security and safety, is available at: <http://HarrisburgU.edu/lib/pdf/annual-security-report-clery-report.pdf>. You may request a paper copy of this report by contacting HU at [Connect@HarrisburgU.edu](mailto:Connect@HarrisburgU.edu)*

The Harrisburg University of Science and Technology is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104. (267-284-5000) The Middle States Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation.

*Academic programs, admission and matriculation requirements, and student eligibilities are subject to change.*



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