LEARNING SCIENCES & TECHNOLOGIES, MSED

The M.S.Ed. in Learning Sciences and Technologies lays the foundation for graduates to pursue fulfilling and creative careers as educators, researchers, and developers of next-generation curricula, technology-enriched learning environments, and instructional programs. The Learning Sciences and Technologies M.S.Ed. is designed for students who wish to investigate at an advanced level the interdisciplinary connections between learning environments (both online and offline), design issues, and educational concerns. Students enjoy individualized courses of study in a small, community-oriented cohort of students. The curriculum gives students the knowledge, skills, and techniques needed to assess, design, and implement programs in learning settings that range from after-school opportunities to corporate professional development.

For more information: https://www.gse.upenn.edu/academics/programs/learning-sciences-technology-masters (https://www.gse.upenn.edu/academics/programs/learning-sciences-technology-masters/)

Curriculum

Code	Title	Course Units
Core Courses [1]		
EDUC 6116	Master's Foundations of Teaching and Learning (Incoming full-time students must register for this course in the Fall semester.)	1
EDUC 6139	Design of Learning Environments	1
EDUC 6144	Learning Sciences: Past, Present, Future	1
EDUC 6168	Master's Seminar in Teaching, Learning, and Leadership	1
Methods Course		1
EDUC 5466	Ethnographic Filmmaking	
EDUC 5570	Qualitative Studies of Developmental Interventions	
EDUC 6130	Introduction to Mixed-Methods Research	
EDUC 6299	Ethnography for Language, Globalization, and Intercultural Studies	
EDUC 6369	Participatory Methods in Education	
EDUC 6460	Qualitative Methods: Principles and Techniques	
EDUC 6667	Introductory Statistics for Educational Research	
EDUC 6683	Survey Methods & Design	
EDUC 7201	Methods of Discourse Analysis	
EDUC 7460	Qualitative Research: Concepts, Methods and Design	
EDUC 7464	Advanced Qualitative and Case Study Research	
EDUC 7468	Ethnographic Research Methods	
EDUC 7665	Introduction to Causal Inference for Educational Research	
EDUC 7667	Regression and Analysis of Variance	
EDUC 7836	Quasi-Experimental Design	
EDUC 7847	Social and Statistical Network Analysis	
EDUC 8466	Craft of Ethnography	
EDUC 8681	Classifications, Profiles, and Latent Growth Mixture Models	
Concentration Courses		
Select 2 Concentration Courses, chosen from the list below: [2]		2
EDUC 5183	Adaptive Learning Systems	
EDUC 5162	Artificial Intelligence for Children and Youth Learning and Creating in K-12 Education	
EDUC 6181	Applied Research in the Learning Sciences [5]	
EDUC 5152	Video Games and Virtual Worlds as Sites for Learning	
EDUC 6108	MaKer Studio	
EDUC 6111	Educational Assessment of and for Learning	
EDUC 6101	Curriculum Development and Enactment	
EDUC 6123	Big Data, Education, and Society	
IPD 5150	Product Design	
EDUC 6150	Technologies for Language Learning and Teaching	
EDUC 6191	Core Methods in Educational Data Mining [5]	
Elective Courses [3]		
Select 3 elective courses, including one distribution course:		2
Distribution course [4]		1
Other Requirements		
Master's Capstone Project, supported by EDUC 6168		
Total Course Units		**10**

1 The MSEd degree requires a minimum of 10 CUs. All courses counted towards the degree must be at the 5000 level or above. No transfer credits are accepted. Other program requirements include successful completion of the Master's Capstone.
All students must take at least 3 CUs to be considered full-time. Part-time students enroll in 1 to 2 CUs per semester.

2 If students wish to take a different course from those listed as a Concentration Course, they must petition and receive approval from their advisor and the TLL Chair prior to enrolling in the course.

3 The elective course should contribute substantively to a student's area of specialization.
Full-time students who want to graduate in August generally plan taking 1 or maximum of 2 electives in the summer.

4 Candidates for the M.S.Ed. degree must demonstrate knowledge of the field of education beyond the area of specialization. This requirement is met by satisfying the distribution requirement. To meet the distribution requirement, students must complete one approved graduate level (5000 and above) GSE course outside the student's area of specialization, earning a grade of "B" or better. Students should check with their program manager for a list of courses approved to fulfill the distribution requirement. Further requirements regarding these courses may be specified by each division.

5 This course can be taken as a methods requirement if not taken as a concentration.

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2025 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.