EDUCATION: TECHNOLOGY INTEGRATION - MA

Program Description

St. Catherine University offers a Master of Arts in Education (MAED): Technology Integration program in collaboration with the Master of Library and Information Science Department (MLIS). The program begins with one-day of instruction on campus. Online 7-week courses are organized around weekly expectations and delivered through Brightspace/D2L. (Students may choose some weekend/evening campus classes offered through MLIS if interested.)

Students and faculty participate in lively discussions throughout the week about new content and findings. Faculty are accessible, supportive, and dedicated to helping teachers' improve their practice. Learning is designed to be iterative and foster critically reflective practice. Our dedicated faculty bring classroom-based expertise and design courses to facilitate meaningful learning.

Whether you feel you are just barely keeping up with new tools for teaching and learning, or are already a leader in meaningful technology integration at your school, this program has the ability to help you advance to the next level. You will develop skills to support creative, hands-on learning that better reflects today's dynamic, collaborative, and digital work environments.

The Technology Integration program is designed for teachers or media specialists interested in:

- expanding their capacity to meet diverse student needs in a digital learning environment
- preparing students for 21st Century citizenship and career opportunities
- seamless integration of digital tools that improve student attention, engagement, and retention of information
- improving their own efficiency
- moving students from being "consumers" of technology to being " designers and creators" with technology
- integrating computational thinking and coding into their curriculum (appropriate for K-12 teachers in any discipline)
- teaching digital video production within their curriculum (appropriate for grade 3-12 teachers that have access to digital video cameras, iPads, or mobile phones)

In this dynamic program, teachers and media specialists broaden their fluency with digital technologies that make their own work more efficient and learn to design for transformative pedagogical shifts possible within a digitally-enabled classroom. Although expert information is ubiquitous, student understanding of information is often shallow, and attention spans challenged. This program addresses teachers' and media specialists' need to be able to work against the tendency to skim and encourage deep learning. We foster implementation that puts teachers - but more critically students - in the driver's seat.

The MAED Technology Integration program requires 31 semester credits of coursework for completion.

The EDUC courses listed below are offered online. The LIS courses are taught on the St. Paul campus in the evenings or on weekends - with online assignments as well.

Curriculum

Code	Title	Credits
Required Courses		
EDUC 6000	Becoming Scholars: Evidence-Based Best Practice	3
EDUC 6420	Technology Integration Fundamentals	3
EDUC 6670	Introduction to Action Research	3
EDUC 6760	Integration Seminar	3
EDUC 7025	Ethics in the Information Age	3
or LIS 7690	Information Technology, People and Society	
EDUC 8920	Action Research Project	1
Select 15 credits from the following. At least two courses must be from the Technology Integration course list		15
Technology Integration courses		
EDUC 6110	Best Practices in 1:1	
EDUC 6450	Literacy and Learning Redefined in the Digital Era	
EDUC 6460	Differentiation in a Digitally-Mediated Environment	
EDUC 6710	Introduction to Computational Thinking and Coding	
EDUC 6720	Digital Video for K-12 Classroom Settings	
EDUC 6730	Physical Computing: Introduction to Arduinos	
EDUC 7690	Hands on STEM: Maker Space in the K-8 Setting	
LIS 7270	Information Literacy in the Digital Age	
LIS 7530	Internet Fundamentals and Design	
LIS 7580	Making and Makerspaces	
LIS 7680	Social Media and Emerging Technologies	
LIS 7970	User Experience Design and Accessibility of Web	
Curriculum and Instruction and STEM elective options (choose up to six credits)		
EDUC 6123	Making Data Meaningful	
EDUC 6225	Literacy through STEM: Using Reading, Writing, Listening and Speaking as Tools in STEM	
EDUC 6530	Formative and Standards Based Assessment	
EDUC 6550	Best Practices with Informational Texts K-12	
EDUC 6805	The Outdoor Classroom [1]	
EDUC 6815	The Art of STEM	
EDUC 6825	Citizen Science as Service Learning in the Natural World	
EDUC 6827	SySTEMic Integration - Transforming K-6 Education through STEM Instruction [1]	
EDUC 6855	Hands on STEM: Basic Engineering and Alternative Energy [1]	

EDUC 6860	Elementary Earth Science - Understanding the Ground Upon Which We Stand [1]	
EDUC 6880	Teacher as Educational Leader	
Total Credits		31

[1]   These courses may include two to four required weekend face-to-face sessions on campus in St. Paul, MN

Note: St. Kate's will accept 12 credits from the University of St. Thomas' Center for Engineering *STEM Engineering Education Certificate* into this program. Contact the program director for details.