

# LEARNING TECHNOLOGIES GRADUATE CERTIFICATE (TLR)

**Banner Code: E1-CERG-LTCH**

## Concentration in AI in Teaching and Learning

Website: <https://education.gmu.edu/advanced-teaching-studies/>

## Concentration in Designing Digital Learning in Schools

Website: <https://education.gmu.edu/learning-technologies-schools/designing-digital-learning-in-schools-graduate-certificate>

## Concentration in E-Learning

Website: <https://education.gmu.edu/learning-design-technology/elearning-certificate>

## Available Concentrations

There are three available concentrations, two of which meet the needs of K-12 educators interested in developing their knowledge, skills, and leadership for teaching with technology and one focused on learning designers working in industry, government, and the non-profit sector. All three concentrations are offered fully online.

### Concentration in AI in Teaching and Learning

This concentration meets the needs of practicing teachers who wish to become effective leaders in AI integration by critically analyzing how artificial intelligence impacts student learning, academic integrity, and the accessibility of education for all. Participants will design AI-supported instructional materials that address diverse student needs while modeling the legal, ethical, and safe use of generative tools.

### Concentration in Designing Digital Learning in Schools

This concentration is offered to practicing teachers who wish to gain the necessary knowledge and skills for integrating digital learning and K-12 curricular knowledge outcomes. The concentration is framed by four learning outcomes: investigation of the theory and practice of digital learning, connection of digital learning and knowledge outcomes, use of design principles and processes to inform practice, and knowledge of a range of technologies appropriate for PreK-12 learners.

### Concentration in E-Learning

This concentration provides professionals with specialized knowledge in instructional design and e-learning practices that utilize current and emerging technologies to meet education and training goals in communities, government agencies, and corporate settings. Courses are offered totally online.

## Admissions & Policies

### Policies

For policies governing all graduate certificates, see AP.6.8 Requirements for Graduate Certificates (<https://catalog.gmu.edu/policies/academic/graduate-policies/#ap-6-8>).

## Requirements

### Certificate Requirements

Total credits: 15-18

This certificate may be pursued on a full-or part-time basis.

Students pursuing this graduate certificate may choose from any of the following concentrations:

#### Concentration in AI in Teaching and Learning (AITL)

This concentration may be pursued on a part-time basis only.

#### Coursework

Code	Title	Credits
EDUC 608	Teacher Leadership for Professional Learning	3
EDUC 616	Teaching with Generative AI	3
EDUC 617	Promise, Pitfalls, and Practice of AI in Education	3
EDUC 618	Designing for Learning with AI	3
EDUC 619	Designing Personalized Learning with AI	3

**Total Credits 15**

#### Concentration in Designing Digital Learning in Schools (DDLs)

This concentration may be pursued on a part-time basis only.

#### Coursework

Code	Title	Credits
EDIT 780	Principles of School-Based Design	3
EDIT 781	Designing for Information Using	3
EDIT 782	Designing for Literacy	3
EDIT 783	Designing for Problem Solving	3
EDIT 784	Designing for Community Participation	3
EDIT 787	Teacher Leadership and Advocacy for Digital Learning	3

**Total Credits 18**

#### Concentration in E-Learning (ELRN)

This concentration may be pursued on a full-time or part-time basis.

#### Coursework

Code	Title	Credits
EDIT 526	Web Accessibility and Design	2
EDIT 575	e-Learning Design Applications	2
EDIT 611	Innovations in e-Learning	3
EDIT 705	Instructional Design	3
EDIT 706	Business of Learning Design and Technologies	3

2 Learning Technologies Graduate Certificate (TLR)

EDIT 772	Virtual Worlds, Augmented Reality, and Gaming Applications	2
----------	---	---

---

**Total Credits** **15**