

COMPUTING AND ENGINEERING EDUCATION GRADUATE CERTIFICATE

Banner Code: EC-CERG-CEED

Website: ist.gmu.edu

Program added on *October 14, 2026*. This new program has been approved with an initiation term of Spring 2027.

Admissions & Policies

Admissions

Applicants must hold a baccalaureate degree from an accredited institution and have earned a GPA of 3.00 or higher in the last 60 credits.

Students not enrolled in a graduate degree program at Mason should apply for the certificate program through the Office of Graduate Admission. Students already enrolled in a Mason graduate degree program should apply to the department for admission into the certificate program. Admission to the certificate program does not guarantee admission to any MS program.

Application Requirements

In addition to degree transcripts, applicants must submit the following:

- A one-page statement of educational and career goals
- A current resume
- Internationally-educated students must submit their English Proficiency scores.

Application Requirements and Deadlines are available from <https://cec.gmu.edu/admissions/graduate-admissions/application-requirements-and-deadlines>.

Policies

For policies governing all graduate certificate programs, see AP.6 Graduate Policies (<https://catalog.gmu.edu/policies/academic/graduate-policies/#ap-6-8>).

Requirements

Certificate Requirements

Total credits: 12

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

Students may begin the proposed certificate program in either the fall or spring semester.

Core Courses

Code	Title	Credits
CEC 501	Fundamentals of Computing, Engineering & Technology Education	3
CEC 502	Teaching and Learning in Computing, Engineering & Technology	3
Total Credits		6

Restricted Electives

Code	Title	Credits
Select two from the following:		6
AIT 510	Learning Technology: Theory, Application and Design	
AIT 710	Design of Learning and Educational Technologies	
ECE 527	Learning From Data	
EDEP 510	Teaching Students How to Learn	
EDEP 551	Principles of Learner Motivation	
EDEP 591	Introduction to Data Literacy in Education	
EDEP 602	Fundamentals of Educational Psychology	
HE 602	College Teaching	
HE 610	Higher Education Assessment and Research	
HE 645	College Students Today	
HE 703	Higher Education in the Digital Age	
HE 704	Scholarship of Teaching and Learning	
HE 706	College Access and Student Success	
HE 721	History of Higher Education	
SEED 507	Assessing Learning and Teaching in the Secondary Classroom	
SEED 566	Teaching Computer Science in the Secondary School	
Total Credits		6