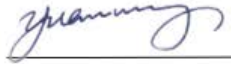
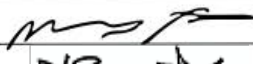
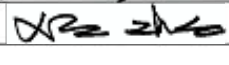
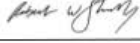


 FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST Graduate Programs		UGPC Approval _____ UFS Approval _____ Banner _____ Catalog _____
	Department _____ College _____		
Program Name _____		New Program* Change Program*	Effective Date (TERM & YEAR)
Please explain the requested change(s) and offer rationale below or on an attachment.			
*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.			
Faculty Contact/Email/Phone _____		Consult and list departments that may be affected by the change(s) and attach documentation	
Approved by Department Chair  College Curriculum Chair  College Dean  UGPC Chair  UGPC Chair (Oct 14, 2025 14:40:50 EDT) UGC Chair  UGC Chair (Oct 14, 2025 14:40:50 EDT) Graduate College Dean  UFS President _____ Provost _____		Date 09/14/2025 9/22/2025 9/22/2025 10/14/2025 10/14/2025 10/15/2025	

Email this form and attachments to UGPC@fau.edu 10 days before the UGPC meeting.

Catalog Entry

Data Science for Mathematics Educators

GRADUATE CERTIFICATE

(Minimum of 12 credits required)

The Graduate Certificate in Data Science for Mathematics Educators (Grades 6–12; Non-Licensure) is designed primarily for students in the Master of Science in Teaching Mathematics (MST) program and active educators who want to integrate data science concepts into their teaching. The program focuses on data analysis, visualization, and computational thinking, preparing educators to help students apply mathematics to real-world, data-driven problems.

Admission

Open to students who have a bachelor's degree in mathematics or in a related field and a GPA of at least 3.0. Students must satisfy the prerequisites for each course in the program. All four courses must be completed with a GPA of 3.0 or better. All course materials are in English; all international students must demonstrate proficiency in English to enter the program.

Curriculum

To complete the program, students need to complete the following four courses.

Course Title	Course Number	Credits
Survey of Statistics & Probability	STA 6116	3
Number Theory and Cryptography	MAS 6217	3
Mathematics for Artificial Intelligence	MAP 6113	3
Introduction to Data Science	CAP 5768	3

Subject: RE: One more new item
From: Hari Kalva <hkalva@fau.edu>
Date: 9/15/2025, 6:44 PM
To: Yuan Wang <YWANG@fau.edu>

Supporting letter from EECS

Hi Yuan, we don't have any objections to the certificate program.

Best,
Hari

--
Hari Kalva, Ph.D.
eecs.fau.edu

From: Yuan Wang <YWANG@fau.edu>
Sent: Monday, September 15, 2025 9:05 AM
To: Hari Kalva <hkalva@fau.edu>
Subject: One more new item

Dear Hari,

I'm kindly following up on this item. This is the last one for the recent batch:

- Graduate Certificate program of Data Science for Mathematics Educators. Primarily for teachers in mathematics.

Your feedback and support will be greatly appreciated.

Thank you!
Yuan

Support from Curriculum and Instruction on:

- *New Course: Mathematics for AI*
- *New Certificate: Teaching Geometry*
- *New Certificate: Integrating Technology in the Math Classroom*
- *New Certificate: Data Science for Math Educators*

Subject: Re: a few certificate programs
From: Michelle McGovern <mvaugha3@fau.edu>
Date: 9/9/2025, 12:04 PM

To: Sabrina Sembiente <ssembiante@fau.edu>, Yuan Wang <YWANG@fau.edu>
CC: Katarzyna Winkowska-Nowak <kwinkows@fau.edu>

Thank you for sharing these, they look like exciting new programs. We are happy to support your efforts. Best of luck.

Michelle Vaughan-McGovern

Interim Co-Chair and Professor
Curriculum and Instruction
777 Glades Road
Boca Raton, FL 33431
Work-phone: 561-297-6594
mvaugha3@fau.edu
<https://www.fau.edu/education/faculty/mvaugha3/>
FAU College of Education

From: Yuan Wang <YWANG@fau.edu>
Sent: Monday, September 8, 2025 5:12 PM
To: Sabrina Sembiente <ssembiante@fau.edu>; Michelle McGovern <mvaugha3@fau.edu>
Cc: Katarzyna Winkowska-Nowak <kwinkows@fau.edu>
Subject: a few certificate programs

Dear Dr. Sembiente and Dr. Vaughan-McGovern,

I'm reaching out to ask if you would be willing to support three of our newly proposed graduate certificate programs and a new course proposal. Please see the attached documents for your review.

The three certificate programs and the new course are designed primarily for student in the Master of Science in Teaching Mathematics (MST) program, as well as for active educators who want to enhance their teaching skills.

We would greatly appreciate your support. Please let me know if you have any questions or would like to discuss any aspect further.

Best regards,
Yuan

cc. Dr. Katarzyna Winkowska-Nowak, Director of MST

Yuan Wang, Professor and Chair
Department of Mathematics & Statistics
Florida Atlantic University
