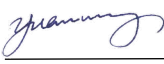


| | | | |
|--|---|---|--|
|  FLORIDA ATLANTIC UNIVERSITY | NEW/CHANGE PROGRAM REQUEST Graduate Programs | | UGPC Approval _____ UFS Approval _____ Banner _____ Catalog _____ |
| | Department _____ College _____ | | |
| Program Name _____ | | New Program* _____ Change Program* _____ | Effective Date (TERM & 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 _____ UGC Chair _____ Graduate College Dean _____ UFS President _____ Provost _____ | | Date 09/10/2025 _____ 9/22/2025 _____ 9/22/2025 _____ _____ _____ _____ _____ | |

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

Catalog Entry

Teaching Geometry (Grades 6–12)

GRADUATE CERTIFICATE

(Minimum of 12 credits required)

The Graduate Certificate in Teaching Geometry (Grades 6–12; Non-Licensure) is designed primarily for students in the Master of Science in Teaching Mathematics (MST) program as well as well as practicing teachers seeking advanced preparation who want to deepen their content knowledge and pedagogical skills in geometry. The program emphasizes conceptual understanding, problem solving, technology integration, and real-world applications of geometry to engage diverse learners.

Admission

Open to students who have a bachelor's degree in mathematics or 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; international students must demonstrate proficiency in English to enter the program.

Curriculum

To complete the program, select three from the list MST courses and one more from the MST list or the list of courses from the College of Education.

| The MST list (online) | | |
|---|----------------------|----------------|
| Course Title | Course Number | Credits |
| Advanced Euclidean Geometry | MTG 6226 | 3 |
| Advanced Algebra and Geometry | MAS 6318 | 3 |
| Problem Solving and Recreational Math | MAT 6516 | 3 |
| Mathematics for Artificial Intelligence | MAP 6113 | 3 |

| Courses from the College of Education (online) | | |
|---|----------------------|----------------|
| Course Title | Course Number | Credits |
| Models of Learning & Instruction | EME 6051 | 3 |
| Technological & Theoretical Foundations of Learning | EME 6623 | 3 |
| Organization & Management Learning Technologies | EME 6716 | 3 |

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 Sembiante <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
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FAU College of Education

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

Dear Dr. Sembiante 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
