FLORIDA ATLANTIC UNIVERSITY

NEW/CHANGE PROGRAM REQUEST
Graduate Programs

UGPC Approval _____
UFS Approval _____
Banner _____
Catalog _____

Department Department of Mathematics & Statistics

College Science

Program Name
Master of Science in Teaching Mathematics

☐ **New Program***

☑ **Change Program***

Effective Date
(TERM & YEAR)
FALL 2024

Please explain the requested change(s) and offer rationale below or on an attachment.

This proposal requests the transition of the Master of Science in Teaching Mathematics (MST) program to a fully online format, discontinuing the in-person option.
We believe that transitioning our MST program to a fully online format will not only align with the strategic goals of our institution but also enhance the overall educational experience for our students.
Rationale: Accessibility: Online delivery will make the program more accessible to a wider range of students, including those who may have geographical constraints or work commitments.
Flexibility: An online format will provide students with greater flexibility in managing their academic pursuits alongside personal and professional obligations.
Pedagogical Advancements: Online learning platforms offer diverse tools and resources that can enhance the teaching and learning experience, fostering engagement and interaction among participants.
Market Demand: There is a growing demand for online education, and transitioning our MST program to an online format will align with the evolving needs and preferences of prospective students.
To facilitate this transition, we have undertaken the necessary steps, including:
Collaborating with instructional designers and technologists to develop high-quality online course materials and resources for all our graduate courses offered in this program.
Providing training and support to faculty members in effectively transitioning their courses to the online environment.Ensuring compliance with accreditation standards and regulatory requirements pertaining to online education.
We kindly request your support and approval for this initiative

*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
Katarzyna Winkowska-Nowak/kwinkows@fau.edu/5612973340

Consult and list departments that may be affected by the change(s) and attach documentation

Approved by	***Date***
Department Chair	3/10/2024
College Curriculum Chair — signed on behalf of Marianne Porter	03/13/2024
College Dean	03/13/2024
UGPC Chair	03/21/2024
UGC Chair	03/21/2024
Graduate College Dean	03/21/2024
UFS President	
Provost	

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

MATHEMATICS
MASTER OF SCIENCE IN TEACHING (M.S.T.)

This degree program, with emphasis on issues of teaching, provides post-baccalaureate education for any students seeking a deeper understanding of and appreciation for mathematics. This M.S.T. degree program does not provide teaching certification; students interested in teaching at the state college level should consult with an advisor in the Department of Mathematics and Statistics. This program is available ~~in person or~~ fully online. (Change effective fall 2024.)

Admission Requirements

Admission requirements for the M.S.T. program are the same as for the M.S. in Mathematics.

Degree Requirements

This program requires 24 credits of mathematics courses and 6 credits of education courses at or above the 5000 level, and at least half of all credits applied to the degree must be in 6000-level courses. (Candidates without a valid secondary certificate or with fewer than two years of teaching experience might be required to complete a 6-credit internship.) The Mathematics and Statistics Department offers one or two 6000-level classes specifically designed for the M.S.T. program each semester (including summers), see the table below; but other 5000- or 6000-level Math courses may be applied toward this degree for students wishing to complete the program more quickly. Candidates may complete 6 of the 24 credits in mathematics by writing a master's thesis.

Online courses designed for the M.S.T. Program	
Advanced Euclidean Geometry	MTG 6226
Advanced Algebra and Geometry	MAS 6318
Mathematics and Technology	MAT 6715
Number Theory of Cryptography	MAS 6217
Dynamical Systems, Chaos, and Computing	MTG 6418
Problem Solving and Recreational Mathematics	MAT 6516
Calculus from a Historical Perspective	MHF 6410
Fractal Geometry	MTG 6415
Introductory Discrete Mathematics	MAD 6108
Survey of Statistics and Probability	STA 6116