

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW/CHANGE PROGRAM REQUEST</b> <b>Graduate Programs</b>		UGPC Approval _____ UFS Approval _____ Banner _____ Catalog _____
	<b>Department</b> Mathematical Sciences  <b>College</b> Science		
<b>Program Name</b> Master of Science in Teaching Mathematics (MST)	<input type="checkbox"/> <b>New Program*</b> <input checked="" type="checkbox"/> <b>Change Program*</b>	<b>Effective Date</b> (TERM & YEAR) Summer 2021	
<p><b>Please explain the requested change(s) and offer rationale below or on an attachment.</b></p> <p>This proposal requests a revision on the course requirements of the program. Currently the required mathematics courses are from a list of ten courses specifically designed for the MST program. We request to allow a student to count toward the degree any graduate course in mathematics (designed for other MS programs and the PhD program).</p> <p>We are also requesting to add the course STA 6116 Technology in Statistics and Probability to the list of courses designed for the program, and remove the course MHF 6405 Topics in the History of Mathematics from the list of courses designed for the program.</p> <p>Rationale: The ten courses in the current list are offered at the rate of one per term (including summers), since many of the students in the program are part time students. Due to minimum enrollment limits, we cannot currently offer two courses from the list in a single term. On the other hand, many students in the program would like to take more than one class per term, to obtain the degree more quickly. In the past two years, many of the graduate mathematics courses have been moved online, making it possible for students in the MST program (which is a fully online degree program) to take more than one class per term. Allowing students to count general mathematics graduate courses toward the MST degree will make the program more flexible and efficient and still preserve the standards of the mathematical content of the program.</p>			
<small>*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.</small>			
<b>Faculty Contact/Email/Phone</b> Lee Klingler / klingler@fau.edu / (561) 297-3340		<b>Consult and list departments that may be affected by the change(s) and attach documentation</b>	
<b>Approved by</b> Department Chair <u>Stephen C Locke</u> College Curriculum Chair <u>Christopher Beetle</u> Date: 2021.02.12 12:56:42 -05'00' College Dean <u>William David Kalie</u> UGPC Chair _____ UGC Chair _____ Graduate College Dean _____ UFS President _____ Provost _____		<b>Date</b> <u>2/2/2021</u> _____ <u>02/12/21</u> _____ _____ _____ _____	

Email this form and attachments to [UGPC@fau.edu](mailto:UGPC@fau.edu) 10 days before the UGPC meeting.

## Master of Science in Teaching (Mathematics)

This degree program, with emphasis on issues of teaching, provides post-baccalaureate education ~~both for certified secondary teachers and those wishing to teach at the state college level 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 Mathematical Sciences.~~

### 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 Mathematical Sciences 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.~~

~~in a 3-year rotation. Candidates may start the program at any point in this rotation.~~ Candidates may complete 6 of the 24 credits in mathematics by writing a master's thesis.

<del>Required Mathematics Courses</del> <del>Students either select eight courses (3 credits each) from the list below, or select six courses (3 credits each) from the list and complete 6 credits of MAT 6971, Master's Thesis.</del>		
<del>Online Courses Designed for the M.S.T Program</del>		
Advanced Euclidean Geometry	MTG 6226	3
Advanced Algebra and Geometry	MAS 6318	3
Mathematics and Technology	MAT 6715	3
<del>Topics in the History of Mathematics</del>	<del>MHF 6405</del>	<del>3</del>
Number Theory of Cryptography	MAS 6217	3
Dynamical Systems, Chaos, and Computing	MTG 6418	3
Problem Solving and Recreational Mathematics	MAT 6516	3
Calculus from a Historical Perspective	MHF 6410	3
Fractal Geometry	MTG 6415	3
Discrete Mathematics for Teachers	MAD 6108	3



**Subject: Re: catalog revision for the MST program**

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From: Stephen Locke - To: Deborah Shepherd, cbeetle@fau.edu, Hongwei Long, Lee Klingler, Yuan Wang - Cc: - Date: February 3, 2021 at 11:10 AM, Attachments: image001.jpg image002.jpg image003.jpg image004.jpg image005.jpg image006.jpg

