FLORIDA ATLANTIC UNIVERSITY™

Graduate Programs—PROGRAM CHANGE REQUEST

UGPC APPROVAL _____
UFS APPROVAL _____
CATALOG _____

DEPARTMENT:
MATHEMATICAL SCIENCES

COLLEGE:
SCIENCE

PROGRAM NAME:
Master of Science with Major in Mathematics

EFFECTIVE DATE
(PROVIDE TERM/YEAR)
SPRING, 2016

PLEASE EXPLAIN THE REQUESTED CHANGE(S) AND OFFER RATIONALE BELOW AND/OR ATTACHED:

REQUESTED CHANGE:
REDUCING THE REQUIRED NUMBER OF CREDITS FROM 36 TO 30.

RATIONALE:

- WITH PROPER SUPERVISION BY FACULTY, A WELL-DESIGNED CURRICULUM OF 30 CREDITS CAN ADEQUATELY PREPARE A STUDENT FOR A CAREER THAT REQUIRES A MASTER'S DEGREE IN MATHEMATICS.
- A 30 CREDIT PROGRAM IS MORE COST EFFECTIVE, THEREBY, ATTRACTING MORE STUDENTS TO THE PROGRAM.
- A 30 CREDIT PROGRAM IS MORE FLEXIBLE FOR A STUDENT TO COMPLETE THE PROGRAM IN A REASONABLE TIME PERIOD.
- MANY REPUTABLE UNIVERSITIES, SUCH AS JOHNS HOPKINS UNIVERSITY, COLUMBIA UNIVERSITY, GEORGE MASON UNIVERSITY, UNIVERSITY OF TOLEDO, UNIVERSITY OF LOUISVILLE, OLD DOMINION UNIVERSITY, AND MANY UNIVERSITIES IN THE SUS SYSTEM, SUCH AS UCF, USF, UWF, UF, OFFER MASTER'S PROGRAMS IN MATHEMATICS OR APPLIED MATHEMATICS OF 30 CREDITS.

Faculty contact, email and complete phone number:	Consult and list departments that might be affected by the change and attach comments.
Yuan Wang, ywang@fau.edu (561) 297 3317	N/A

Approved by:	*Date:*
Department Chair: L. Bergman	10/13/15
College Curriculum Chair: Charles Wu	11/17/15
College Dean: Charles Wu	12/6/16
UGPC Chair:	
Graduate College Dean:	
UFS President:	
Provost:	

Email this form and syllabus to *UGPC@fau.edu* **one week before** the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website prior to the meeting.

Master of Science with Major in Mathematics

This program is designed to provide a foundation for mathematical work in scientific or technical fields as well as for doctoral study in mathematics. It should normally take a full-time student two years to complete.

Admission Requirements
In addition to meeting the University graduate admission requirements (including a score of at least 155 on the quantitative reasoning section of the GRE), applicants must have a bachelor's degree in mathematics or coursework that includes the equivalent of Modern Analysis, Modern Algebra, and Probability and Statistics 1, as well as computer competency.

Degree Requirements, Non-Thesis Option
To complete the M.S. degree without thesis, the candidate must satisfy the following criteria in addition to University requirements:

1. Earn 30 credits in courses pre-approved by the graduate advisor in mathematics, at least 15 credits at the 6000-level of which at least 12 are in mathematics.

2. Pass MAA 5228, MAA 5229 (Introductory Analysis 1, 2) and MAS 5311, MAS 5312 (Introductory Abstract Algebra 1, 2) with a 3.0 GPA; and

3. Complete a master's examination. The exam should be scheduled during the semester before the anticipated completion of coursework for the degree. Students should contact the departmental graduate director to schedule the exam.

If pre-approved by the department graduate committee, up to 6 credits of FAU coursework from outside of the Department of Mathematical Sciences may count toward the degree.

Degree Requirements, Thesis Option
To complete the M.S. degree with thesis, the candidate must satisfy the following criteria in addition to University requirements:

1. Aside from thesis credit, earn 24 credits in courses pre-approved by the graduate advisor in mathematics, at least 9 credits of which are in 6000-level mathematics courses;

2. Pass at least three of MAA 5228, MAA 5229 (Introductory Analysis 1, 2) and MAS 5311, MAS 5312 (Introductory Abstract Algebra 1, 2) with a 3.0 GPA; and

3. Successfully complete and defend a master's thesis, earning at least 6 credits of MAT 6971 (Master's Thesis).

If pre-approved by the department graduate committee, up to 6 credits of FAU coursework from outside of the Department of Mathematical Sciences may count toward the degree.