

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 Applied Mathematics and Statistics

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:

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 (561) 297 3317

Consult and list departments that might be affected by the change and attach comments.

N/A

Approved by:

Department Chair: 

College Curriculum Chair: _____

College Dean: _____

UGPC Chair: _____

Graduate College Dean: _____

UFS President: _____

Provost: _____

Date:

10/13/15

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 Applied Mathematics and Statistics

The purpose of this program is to prepare students for the application of mathematics in industry and scientific research. The three tracks currently offered are biostatistics, cryptology and information security, and financial mathematics.

Admission Requirements:

Admission requirements for the M.S. in Applied Mathematics and Statistics are the same as for the M.S. in Mathematics.

Degree Requirements:

To complete the M.S. degree in Applied Mathematics and Statistics, the candidate must complete at least 30 credit hours of graduate course work, and satisfy the following criteria in addition to University requirements:

1. Earn at least 24 credits in courses specified in a degree track, preapproved by the graduate advisor in mathematics, at least 15 credits of which are at the 6000-level (for details, see the graduate advisor or the [website](#));
2. If preapproved by the department graduate committee, up to 12 credits of FAU coursework from outside of the Department of Mathematical Sciences may count toward the degree.
3. Complete a capstone project with the following three options:
 - a. Successfully complete and defend a master's thesis, earning at least 6 credits of MAT 6971 (Master's Thesis).
 - b. Successfully complete and report on an Industrial Internship, earning at least 6 credits.
 - c. Successfully complete a Master's examination.