FLORIDA ATLANTIC UNIVERSITY

NEW/CHANGE PROGRAM REQUEST
Graduate Programs

UGPC Approval _____
UFS Approval _____
Banner _____
Catalog _____

Department Mathematical Sciences

College Science

Program Name

B.A. or B.S. with Concentration in Mathematics (Honors College) to M.S. in Mathematics

☐ **New Program***

☑ **Change Program***

Effective Date
(TERM & YEAR)
Fall 2022

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

This proposal requests to revise the current Bachelor of Arts with Major in Liberal Arts and Sciences, with Concentration in Mathematical Sciences; or Bachelor of Arts or Bachelor of Science with Major in Biological and Physical Sciences, with Concentration in Mathematics, to Master of Science Degree with Major in Mathematics in terms of the program change of the Master of Science in Mathematics, which has been merged with the Master of Science in Applied Mathematics and Statistics (AMST) program.

Rationale: Due to low enrollment and graduates of the AMST program, we have proposed to merge the AMST program with MS in Mathematics with five concentrations: pure mathematics, applied analysis, biostatistics, cryptology and information security, and financial mathematics. The current Bachelor of Arts with Major in Liberal Arts and Sciences, with Concentration in Mathematical Sciences; or Bachelor of Arts or Bachelor of Science with Major in Biological and Physical Sciences, with Concentration in Mathematics, to Master of Science Degree with Major in Mathematics needs to be updated to reflect the program change of the MS in Mathematics.

*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

Hongwei Long/ hlong@fau.edu / 561-297-0810

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

Honors College

Approved by		***Date***
Department Chair	A C Locke	12/8/2021
College Curriculum Chair	Christopher Beetle — Digitally signed by Christopher Beetle Date: 2021.12.09 07:55:26 -05'00'	
College Dean	William David Kalie	12/09/21
~~UGPC Chair~~	Christopher Beetle	Jan 4, 2022
UGC Chair	Paul R Pinnow	Jan 4, 2022
Graduate College Dean	Robert W. Stackman Jr. — Robert W. Stackman Jr. (Jan 4, 2022 21:22 EST)	Jan 4, 2022
UFS President		
Provost		

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

FLORIDA ATLANTIC UNIVERSITY

NEW/CHANGE PROGRAM REQUEST
Graduate Programs

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Department Mathematical Sciences

College Science

Program Name

B.A. or B.S. in Mathematics (Honors College) to M.S. in Applied Mathematics and Statistics

☐ **New Program***

☑ **Change Program***

Effective Date
(TERM & YEAR)
Fall 2022

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

This proposal requests to terminate the Bachelor of Arts with Major in Liberal Arts and Sciences, with Concentration in Mathematical Sciences; or Bachelor of Arts or Bachelor of Science with Major in Biological and Physical Sciences, with Concentration in Mathematics to Master of Science Degree with Major in Applied Mathematics and Statistics since we are going to terminate the Master of Science in Applied Mathematics and Statistics (AMST) program. Consequently the catalog entries for the Bachelor of Arts with Major in Liberal Arts and Sciences, with Concentration in Mathematical Sciences; or Bachelor of Arts or Bachelor of Science with Major in Biological and Physical Sciences, with Concentration in Mathematics to Master of Science Degree with Major in Applied Mathematics and Statistics should be removed from the university catalog.

Rationale: Due to low enrollment and graduates of the AMST program, we have proposed to merge the AMST program with MS in Mathematics with five concentrations: pure mathematics, applied analysis, biostatistics, cryptology and information security, and financial mathematics. Consequently we have made the program change for the Bachelor of Arts with Major in Liberal Arts and Sciences, with Concentration in Mathematical Sciences; or Bachelor of Arts or Bachelor of Science with Major in Biological and Physical Sciences, with Concentration in Mathematics, to Master of Science Degree with Major in Mathematics by incorporating the merged MS in Mathematics program. All the prospective students from Honors College interested in combined program with focus on applied mathematics and statistics can apply for the B.A. or B.S. with Concentration in Mathematics (Honors College) to M.S. in Mathematics by choosing the appropriate concentration.

*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

Hongwei Long/ hlong@fau.edu / 561-297-0810

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

Honors College

Approved by		***Date***
Department Chair	[signature]	12/8/2021
College Curriculum Chair	[signature] Digitally signed by Christopher Beetle Date: 2021.12.09 07:55:46 -05'00'	
College Dean	[signature]	12/09/21
UGPC Chair	[signature]	Jan 4, 2022
UGC Chair	[signature]	Jan 4, 2022
Graduate College Dean	[signature] Robert W. Stackman Jr. (Jan 4, 2022 21:22 EST)	Jan 4, 2022
UFS President		
Provost		

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Bachelor of Arts with Major in Liberal Arts and Sciences, with Concentration in Mathematical Sciences; or Bachelor of Arts or Bachelor of Science with Major in Biological and Physical Sciences, with Concentration in Mathematics, to Master of Science Degree with Major in Mathematics

This is an accelerated five-year program where students complete the Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) degree with a Math concentration in the Wilkes Honors College and then continue on with the Master of Science (M.S.) degree in Mathematics in the Charles E. Schmidt College of Science.

The combined degree program is 150 credits: 120 credits for the undergraduate degree and 30 for the master's degree, with a maximum of 12 credits of graduate coursework used to satisfy both degrees. Once admitted into the program, students follow the suggested course sequences within a single ~~track~~ concentration. The baccalaureate degree will be conferred before the master's degree.

Students must maintain a GPA of 3.0 in upper-division and graduate courses. Students interested in this program should consult with the undergraduate and graduate advisors before taking upper-division mathematics coursework to ensure that their coursework will apply toward the combined degree. Students must take the GRE and apply for admission to candidacy by the end of their junior year.

The Bachelor's Curriculum
Students must complete the requirements of the B.A. with concentration in Mathematical Sciences or the B.A./B.S. degree with concentration in Mathematics from the Wilkes Honors College. In addition, students must complete MAS 4107 Linear Algebra 2 and STA 4442 Probability and Statistics 1.

Twelve graduate credits from the Department of Mathematical Sciences can be counted toward both the bachelor's degree and the master's degree. The 12 graduate credits should be chosen within a single concentration of the master's program. These 12 credits can be counted as the upper-division math electives or as substitutes as follows:

MAA 5228 can be used to substitute for MAA 4200
MAS 5311 can be used to substitute for MAS 4301
MAS 5145 can be used to substitute for MAS 4107

~~Four graduate courses may to be shared between the bachelor's degree and the master's degree.~~

~~**Take at least two of the core courses**~~		
~~Introductory Analysis 1~~	~~MAA 5228~~	~~3~~
~~Introductory Analysis 2~~	~~MAA 5229~~	~~3~~
~~Introductory Abstract Algebra 1~~	~~MAS 5311~~	~~3~~
~~Introductory Abstract Algebra 2~~	~~MAS 5312~~	~~3~~
~~*Take two more courses at the 5000 or 6000 level from the Mathematical Sciences department approved by the graduate committee.*~~		

Details of the master's program in Mathematics ~~and Statistics~~ are found here.

The Master's Curriculum
Students complete all requirements for the M.S. degree in Mathematics.

From: Terje Hill <terjehill@fau.edu>
Sent: Thursday, November 18, 2021 3:41 PM
To: Stephen Locke <lockes@fau.edu>; Warren McGovern <Wmcgove1@fau.edu>; Hongwei Long <hlong@fau.edu>
Subject: Re: Folding the AMST into the M.S.

Hi Stephen and Hongwei,

Warren and I have reviewed all the documents, and we support the proposed changes. Once the changes are approved, we will update the information on the Honors College website.
I assume that no Honors College signatures are needed on any of these forms, but in case they are needed, please let us know asap. Our curriculum committee meets on Dec. 2, and our last faculty assembly for this year is Friday, Dec. 10 (in case we as a faculty are required to vote on these changes). Please contact UUPC (or Maria Jennings) to find out if Honors College votes and signatures are needed.

All the best,
Terje

Dr. Terje Hill, Ph.D.
Professor of Mathematics
Wilkes Honors College, FAU

From: Stephen Locke <lockes@fau.edu>
Date: Tuesday, November 16, 2021 at 12:05
To: Warren McGovern <Wmcgove1@fau.edu>, Terje Hill <terjehill@fau.edu>, Hongwei Long <hlong@fau.edu>
Subject: Folding the AMST into the M.S.

Warren and Terje,

I sent some files a while back regarding the merger of the M.S. in Applied Mathematics and Statistics into the traditional M.S. program, resulting in an M.S. programs with several tracks.

When we change the Catalog copy for the M.S., we should also change the Catalog copy for the combined programs involving a baccalaureate at the Honors College with an M.S. here in our department.

I'll try to sent the files again, in case you need them.

Hongwei is looking for a comment from your group for when the proposed changes go to the College's Graduate Curriculum Committee.

Thanks,
Stephen