

 FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST Undergraduate Programs		UUPC Approval <u>3-29-21</u> UFS Approval _____ Banner Posted _____ Catalog _____
	Department Mathematical Sciences College Science		
Program Name Mathematics Minor	<input type="checkbox"/> New Program <input checked="" type="checkbox"/> Change Program	Effective Date (TERM & YEAR) Fall 2021	
Please explain the requested change(s) and offer rationale below or on an attachment See attached			
Faculty Contact/Email/Phone Stephen Locke, lockes@fau.edu, 561-297-3350		Consult and list departments that may be affected by the change(s) and attach documentation	
Approved by Department Chair <u>Stephen Locke</u> College Curriculum Chair <u>Jerry Haky</u> College Dean <u>[Signature]</u> UUPC Chair <u>Jerry Haky</u> Undergraduate Studies Dean <u>Edward Pratt</u> UFS President _____ Provost _____		Date <u>March 5, 2021</u> <u>3-18-21</u> <u>3/24/2021</u> <u>3-29-21</u> <u>3-29-21</u> _____ _____	

Email this form and attachments to mjenning@fau.edu one week before the UUPC meeting so that materials may be viewed on the UUPC website prior to the meeting.



Charles E. Schmidt College of Science
Department of Mathematical Sciences
777 Glades Road
Boca Raton, FL 33431
tel: 561.297.3340
fax: 561.297.2436
math.fau.edu

March 5, 2021

Proposed Revision of the Mathematics Minor.

The current Mathematics Minor requires 24 credits with at least 18 of those credits completed at FAU. This has caused a slight difficulty for FAU students who transferred to FAU after completing an AA degree if they have already completed MAC 2311 and MAC 2312. Also, the current Mathematics Minor required students to take a course from a short list of four upper division courses, one of which has been phased out, one is about to be phased out and one has a prerequisite added in recent years.

In order to make the minor accessible to a larger number of students, the Department of Mathematical Sciences proposes to replace its current minor in Mathematics with a slightly more compact program. As prerequisites, the student is expected to complete MAC 2311 and MAC 2312. The student will then take three courses from a list of five courses most of which are offered every semester and are frequently taken by Engineering majors. (The other course is MAD 2502, which is offered in Fall and Spring.) The student must also take one upper division mathematics course, not counting MAP 3305.

The total number of credits in the minor is 12 or 13, at least 9 credits of which must be done at FAU. With the addition of the two prerequisite courses, the total is 20 or 21. Our current minor requires 24 credits.

A copy of this proposal is being sent to the departments in the College of Engineering, to the Physics Department, and to the Honors College.

Mathematical Sciences Interim Chair Stephen C. Locke March 5/2021

College Curriculum Chair _____

College Dean _____

UUPC Chair _____

Undergraduate Studies Dean _____

UFS President _____

Provost _____

Proposed Catalog entry:

Minor in Mathematics

Students are expected to complete MAC 2311 (Calculus 1) and MAC 2312 (Calculus 2) or their equivalents as prerequisites for the Minor in Mathematics. (8 credits)

The minor requires four Mathematics courses, 12 or 13 credits, with grades of “C” or better in each course, and with at least 9 of these credits completed at FAU.

Three courses are to be selected from:

- MAC 2313 (Calculus 3) 4 credits
- MAD 2104 (Discrete Mathematics) 3 credits
- MAD 2502 (Introduction to Computational Mathematics) 3 credits
- MAP 2302 (Diff. Eqns. 1) or MAP 3305 (Eng. Math. 1) . . 3 credits
- MAS 2103 (Matrix Theory) 3 credits

The remaining course will be an upper division mathematics course (3000-level or above), excluding MAP 3305 (Engineering Mathematics 1).

The total number of credits, including the MAC 2311 and MAC 2312 prerequisites, is 20 or 21.

Current Listing in the Catalog

Mathematics Minor

The minor requires 24 credits of mathematics courses at the level of Calculus 1 or above with grades of "C-" or better in each course, including at least one from below:

Modern Analysis	MAA 4200	
Introduction to Complex Analysis	MAA 4402	
Numerical Analysis 1	MAD 4401	
Modern Algebra	MAS 4301	

At least 18 of these mathematics credits must be completed at FAU.