FLORIDA ATLANTIC UNIVERSITY

NEW/CHANGE PROGRAM REQUEST
Undergraduate Programs

UUPC Approval 4-27-26
UFS Approval
Banner
Catalog

Department Mathematics and Statistics

College Charles E. Schmidt College of Science

Program Name	☐ **New Program***	**Effective Date** *(TERM & YEAR)*
BA in Math	☑ **Change Program***	**Spring 2027**

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

We request to add the course, Applications of AI in Science, as a required course for BA in Math.

Rationale: Integrating "Applications of AI in Science" into the core curriculum for a Bachelor of Arts in Mathematics is essential to prepare graduates for the evolving landscape of science, technology, and industry. AI is currently transforming mathematical research and application, and mandatory training in this area is necessary to ensure graduates are competitive in the workforce and equipped to address modern complex problems.

Adding Applications of AI in Science to BA in Mathematics aligns with FAU's institutional goals in workforce preparation, interdisciplinary education, and research engagement. The course would equip mathematics students with the ability to translate rigorous mathematical training into applied AI methodologies relevant to real-world scientific problems.

*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	**Consult and list departments that may be affected by the change(s) and attach documentation**
Yuan Wang / ywang@fau.edu	

Approved by	***Date***
Department Chair yuanwang	4/3/2026
College Curriculum Chair	4-16-2026
College Dean	4/16/26
UUPC Chair Korey Sorge	4-27-26
Undergraduate Studies Dean Dan Macaroff	4-27-26
UFS President	
Provost	

Email this form and attachments to mjenning@fau.edu seven business days before the UUPC meeting.

Catalog Change

Mathematics
Bachelor of Arts (B.A.)

(Minimum of 120 credits required)

Course Title	Course Number	Credits
Calculus 1	MAC 2311	4
Calculus 2	MAC 2312	4
Calculus 3	MAC 2313	4
Applications of AI in Science	IDS 3763	3
Discrete Mathematics	MAD 2104	3
Introduction to Computational Math	MAD 2502	3
Matrix Theory or Linear Algebra	MAS 2103	3
Introduction to Advanced Mathematics	MHF 3202	3
Introductory Complex Analysis	MAA 4402	3
Vector Calculus	MAS 3156	3
Modern Algebra	MAS 4301	3
Probability and Statistics 1	STA 4442	3
Upper-division math electives		12
Mathematics Total		~~48~~ **51**

Required Minimum GPA 2.2