

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW/CHANGE PROGRAM REQUEST</b> <b>Undergraduate Programs</b>		UUPC Approval <u>2-23-26</u> UFS Approval _____ Banner _____ Catalog _____
	<b>Department</b> N/A  <b>College</b> Wilkes Honors College		
<b>Program Name</b> Mathematical Sciences (Interdisciplinary)	<input type="checkbox"/> <b>New Program*</b>  <input checked="" type="checkbox"/> <b>Change Program*</b>	<b>Effective Date</b> (TERM & YEAR)  Fall 2026	
<p><b>Please explain the requested change(s) and offer rationale below or on an attachment.</b></p> <p>Add MAP 3305 Engineering Mathematics I as an alternative to MAP 2302 Honors Differential Equations I in Group A: Intermediate-Level Mathematics Courses, to align with similar requirements in various 4+1 engineering pathways.</p> <p>Change the number of credits for upper-level electives in the Area of Emphasis from 12 credits to 15–24 credits. Students must complete a minimum of five upper-level courses in the Area of Emphasis to satisfy this requirement. Students pursuing a 4+1 combined bachelor's/master's degree may count up to eight required courses from the 4+1 Computer Science or Computer Engineering pathways toward this requirement.</p> <p>Reduce the credits for an upper-level mathematics elective to 3 credits (1 course).</p> <p>For DARS purposes, approved course prefixes are provided for upper-level electives in the Area of Emphasis. These prefixes were determined based on historical data as well as students' current and past preferences and interests. This concentration is intended for students who are strong in mathematics and wish to focus on disciplines and applications in which mathematics plays a central role.</p> <p><small>*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.</small></p>			
<b>Faculty Contact/Email/Phone</b>  Dr. Terje Hill / terjehill@fau.edu		<b>Consult and list departments that may be affected by the change(s) and attach documentation</b> Department of EECS	
<b>Approved by</b>		<b>Date</b>	
Department Chair <u></u>		<u>2/13/2026</u>	
College Curriculum Chair <u>Terje Hill</u>		<u>2-13-2026</u>	
College Dean <u></u>		<u>2/13/26</u>	
UUPC Chair <u>Korey Sorge</u>		<u>2-23-26</u>	
Undergraduate Studies Dean <u>Dan Meeroff</u>		<u>2-23-26</u>	
UFS President _____		_____	
Provost _____		_____	

Email this form and attachments to [mjennning@fau.edu](mailto:mjennning@fau.edu) seven business days before the UUPC meeting.

## CONCENTRATION IN INTERDISCIPLINARY MATHEMATICAL SCIENCES

Students must earn a "C" or better in each course taken to fulfill a concentration requirement.

Advisory Board: [Dr. Yaouen Fily](#) [Dr. Jason Hedetniemi](#) [Dr. Terje Hill](#) [Dr. Kevin Lanning](#)  
[Dr. Warren McGovern](#) [Dr. William O'Brien](#)

The Interdisciplinary Concentration in the Mathematical Sciences offers a great deal of breadth and flexibility for the design of quantitatively-based programs. Students choose an area of emphasis in Applied Mathematics, Computer Science, Biology, **Engineering**, Physics, Chemistry, Economics, Psychology, or another area negotiated with the advisor. The Interdisciplinary Concentration in the Mathematical Sciences may also be appropriate for a pre-medicine student interested in a quantitative program of study in the sciences.

Available Options: Concentration in Interdisciplinary Mathematical Sciences, with an Emphasis in Applied Mathematics, Computer Science, Biology, **Engineering**, Physics, Chemistry, Economics, Psychology, or another area negotiated with the advisor.

## CONCENTRATION IN INTERDISCIPLINARY MATHEMATICAL SCIENCES

Course #	Course Name	Credits
MAC 2311	Honors Calculus with Analytic Geometry 1	4
MAC 2312	Honors Calculus with Analytic Geometry 2	4
	Three Courses from Group A	9
STA 2023	Honors Introductory Statistics	3
	Electives in Area of Emphasis	<del>12</del> 15-24
	Math <del>and Science</del> Electives	<del>6</del> 3
IDS 4970	Honors Thesis (two semesters)	6
	Total Credits	44- <del>53</del>

## GROUP A: INTERMEDIATE LEVEL MATHEMATICS COURSES

Course #	Course Name	Credits
MAC 2313	Honors Calculus with Analytic Geometry 3	4

Course #	Course Name	Credits
MAS 2103	Honors Matrix Theory	3
MAD 2104	Honors Discrete Mathematics	3
MAP 2302	Honors Differential Equations	3
or MAP 3305	or Engineering Mathematics 1	

**Electives:** Electives must be upper division. ~~Twelve~~ Minimum fifteen (15) upper division hours should be in the area of emphasis, and the ~~other six~~ additional three (3) should be any upper division courses in mathematics ~~or the sciences. These include all Honors College upper division courses offered in Mathematics, Computer Science, Biology, Physics, Chemistry, Economics, and Psychology.~~ Students planning to pursue a 4+1 combined bachelor's/ master's degree program may count up to 24 credits of required courses toward the Area of Emphasis. Upper-division electives should be selected from courses with the prefixes listed in the table below. Generally, students will complete additional science and mathematics courses, but the framework is minimal to allow a maximum of flexibility in designing individual programs. The student should work closely with the advisor in creating an appropriate program of study. Students are reminded that they need 42 upper-level (3000 or 4000-level) credits to graduate.

**Restrictions:** ~~In order to count towards the Concentration requirements, upper division Honors Mathematics and Sciences courses must be completed with a grade of C or better.~~

Approved course prefixes for upper-level electives in area of emphasis:

Art	ART
Biology	BSC, MCB, OCB, PCB, ZOO
Computer Science	CAI, CAP, CDA, CEN, CIS, CNT, COP, COT
Chemistry	BCH, CHM
Economics	ECO, ECP, ECS, REE
Engineering	BME, EAS, EEE, EEL, EGM, EGN, EML, EOC, OCE
Environmental Science	ENV, EVR, EVS, GEA, GEO, GIS, SUR
Interdisciplinary Studies	IDS*, ISS
Mathematics	MAA, MAD, MAP, MAS, MAT, MTG, STA
Philosophy	PHH, PHI
Physics	AST, PHY, PHZ
Psychology	CLP, DEP, EXP, PPE, PSB, PSY, SOP

\*Only one IDS course is allowed, and it must be approved by the advisor as appropriate for the student's area of emphasis. Excluded are IDS 4947 Honors Internship and IDS 4970 Honors Thesis.