TATI	NEW/CHANGE PROGR	AM REQUEST	UGPC Approval	
	Graduate Programs		UFS Approval	
FLORIDA	Department Ocean and Mechanical Engineering		Banner Catalog	
ATLANTIC	Department Ocean and Mechanical Engineering		Catalog	
UNIVERSITY	College Engineering and Computer Science			
Program Name		New Program*	Effective Date (TERM & YEAR)	
PhD in Mechanio	cal Engineering	✓ Change Program*	Fall/2021	
Please explain	the requested change(s) and offer ra	ationale below or on an	attachment.	
This proposal ad program.	lds a new concentration in Aerospace Er	ngineering to the PhD in Me	echanical Engineering	
This concentration is motivated by the research expertise and activity of some of the faculty in the OME department.				
	and changes to existing programs must be acco			
		consult and list department the change(s) and attach	nents that may be affected by a documentation	
Manhar Dhanak/d	hanak@fau.edu/561-297-2827	NA		
Approved by	Digitally signed by Manhar Dhanak DN: cn=Manhar Dhanak, o=Florida Atlantic University, ou=Ocean and Mechnical Engineering, email=dhanak@fau.edu, c=US		Date	
Department Chair	Francisco Presuel-Moreno	rally signed by Francisco Presuel-Moreno cn=Francisco Presuel-Moreno, o=Florida Atlantic University, ou=Ocean and	3/14/2021	
College curriculum cnair Date: 2021.03.14 1804/31 -0400' Discontinuo condicion confidence (University, co., co.)		3/15/2021		
College Dean College Dean Constitution of the				
UGPC Chair — UGC Chair —				
Graduate College	Dean			
UFS President				

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

Provost

Doctor of Philosophy with Major in Mechanical Engineering: Aerospace Engineering Concentration

Students in the Ph.D. with Major in Mechanical Engineering have the option of pursuing a concentration in Aerospace Engineering. See below for details.

Admission Requirements

Applicants should meet all the admission requirements for the Ph.D. with Major in Mechanical Engineering program.

Degree Requirements

Applicants should meet all the degree requirements for the Ph.D. with Major in Mechanical Engineering program. In addition, the following requirements should be met.

- 1. Graduate coursework counted for the PhD program include three Ph.D. core courses (Advance Strength of Materials, Advanced Fluid Dynamics and Advanced Control) and at least three graduate courses that includes content on theoretical and/or applied Aerospace engineering. Graduate courses completed during the master's degree program may also be used to meet this requirement. The three Aerospace engineering courses are listed in the table below. Additional courses may be approved by the dissertation advisor.
- 2. The student's dissertation research and scholarship must have a strong emphasis on one or more areas of Aerospace Engineering.

Graduate Coursework (9 credits)					
Core course					
Principles of Aerodynamics	EML 6930	3			
Elective courses (select two of the following courses)					
Computational Fluid Dynamics	EOC 6189	3			
Fracture Mechanics	EML 6239	3			
Introduction to Finite Element	EGM 5351	3			
Advanced Dynamics	EML 6271	3			
Turbomachinery	EML 6402	3			