FAU	NEW/CHANGE PROGRAM REQUEST Graduate Programs  Department Ocean and Mechanical Engineering  College Engineering and Computer Science		UGPC Approval UFS Approval Banner Catalog
FLORIDA			
ATLANTIC UNIVERSITY			
Program Name		New Program*	Effective Date
PhD in Mechanic	cal Engineering	✓ Change Program*	(TERM & YEAR) Fall/2021
Please explain	the requested change(s) and offer r	rationale below or on an	attachment.
	dds a new concentration in Aerospace E	ngineering to the PhD in Me	echanical Engineering
program. This concentrati	on is motivated by the research expertise	e and activity of some of the	e faculty in the OME
department.			
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	and changes to existing programs must be acco		
Faculty Contact/	Email/Phone	Consult and list departn	nents that may be affected by
Faculty Contact/			nents that may be affected by
Faculty Contact/	Email/Phone	Consult and list departm the change(s) and attach	nents that may be affected by
Faculty Contact/ Manhar Dhanak/d	Email/Phone hanak@fau.edu/561-297-2827  Digitally signed by Manhar Dhanak	Consult and list departm the change(s) and attach	nents that may be affected by n documentation
Faculty Contact/ Manhar Dhanak/d  Approved by	Email/Phone hanak@fau.edu/561-297-2827  Digitally signed by Manhar Dhanak DN: cn=Manhar Dhanak, o=Florida Atlantic University, ou=Ocean and Mechnical Engineering, email=dhanak@fau.edu, c=US	Consult and list departm the change(s) and attach	nents that may be affected by
Faculty Contact/ Manhar Dhanak/d  Approved by Department Chain	Email/Phone hanak@fau.edu/561-297-2827  Digitally signed by Manhar Dhanak DN: cn=Manhar Dhanak, o=Florjida Atlantic University, ou=Ocean and Mechnical Engineering, email=dhanak@fau.edu, c=US Date: 2021.03.14 1500.28 do500	Consult and list department the change(s) and attach NA	nents that may be affected by n documentation
Faculty Contact/ Manhar Dhanak/d  Approved by Department Chain College Curriculu	Email/Phone hanak@fau.edu/561-297-2827  Digitally signed by Manhar Dhanak DN: cn=Manhar Dhanak, o=Florjida Atlantic University, ou=Ocean and Mechnical Engineering, email=dhanak@fau.edu, c=US Date: 2021.03.14 1500.28 do500	Consult and list department the change(s) and attach	Date  3/14/2021
Faculty Contact/ Manhar Dhanak/d  Approved by Department Chain	Email/Phone hanak@fau.edu/561-297-2827  Digitally signed by Manhar Dhanak DN: cn=Manhar Dhanak, o=Florjida Atlantic University, ou=Ocean and Mechnical Engineering, email=dhanak@fau.edu, c=US Date: 2021.03.14 1500.28 do500	Consult and list department the change(s) and attach NA	nents that may be affected by a documentation  Date

Apr 5, 2021

Email this form and attachments to <a href="UGPC@fau.edu">UGPC@fau.edu</a> 10 days before the UGPC meeting.

Graduate College Dean

**UFS President** 

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			