

 FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST Graduate Programs	UGPC Approval _____ UFS Approval _____ Banner _____ Catalog _____
	Department Ocean and Mechanical Engineering College Engineering and Computer Science	
Program Name MS in Mechanical Engineering	<input type="checkbox"/> New Program* <input checked="" type="checkbox"/> Change Program*	Effective Date (TERM & YEAR) Fall/2021
<p>Please explain the requested change(s) and offer rationale below or on an attachment.</p> <p>This proposal adds a new concentration in Aerospace Engineering to the MS in Mechanical Engineering program thesis option. This concentration is motivated by the research expertise and activity of some of the faculty in the OME department.</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>		
Faculty Contact/Email/Phone Manhar Dhanak/dhanak@fau.edu/561-297-2827	Consult and list departments that may be affected by the change(s) and attach documentation NA	
Approved by Department Chair _____ College Curriculum Chair <u>Francisco Presuel-Moreno</u> College Dean <u>McCarder</u> UGPC Chair _____ UGC Chair _____ Graduate College Dean _____ UFS President _____ Provost _____	<small>Digitally signed by Manhar Dhanak DN: cn=Manhar Dhanak, o=Florida Atlantic University, ou=Ocean and Mechanical Engineering, email=dhanak@fau.edu, c=US Date: 2021.03.14 14:59:21 -05'00'</small> <small>Digitally signed by Francisco Presuel-Moreno DN: cn=Francisco Presuel-Moreno, ou=Florida Atlantic University, ou=Ocean and Mechanical Engineering, email=fpresuel@fau.edu, c=US Date: 2021.03.14 18:03:10 -04'00'</small> <small>Digitally signed by Mhuaisa Carder DN: cn=Mhuaisa Carder, o=Florida Atlantic University, ou=Ocean and Mechanical Engineering, c=US Date: 2021.03.14 18:03:10 -04'00'</small> <small>Digitally signed by Christopher Beeter DN: cn=Christopher Beeter, o=Florida Atlantic University, ou=Ocean and Mechanical Engineering, c=US Date: 2021.03.14 18:03:10 -04'00'</small> <small>Digitally signed by Paul R. Peter DN: cn=Paul R. Peter, o=Florida Atlantic University, ou=Ocean and Mechanical Engineering, c=US Date: 2021.03.14 18:03:10 -04'00'</small> <small>Digitally signed by Robert W. Johnston DN: cn=Robert W. Johnston, o=Florida Atlantic University, ou=Ocean and Mechanical Engineering, c=US Date: 2021.03.14 18:03:10 -04'00'</small>	Date _____ _____ 3/15/2021 Apr 4, 2021 Apr 5, 2021 Apr 5, 2021 _____ _____

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

Master of Science with Major in Mechanical Engineering: Aerospace Engineering Concentration

Students in the Master of Science with Major in Mechanical Engineering thesis option 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 MS with Major in Mechanical Engineering program thesis option.

Degree Requirements

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

1. Graduate coursework counted for the MS program include at least three graduate courses that includes content on theoretical and/or applied Aerospace engineering, see the table below. Additional courses may be approved by the thesis advisor. In addition, students in this program need to choose Advance Controls course as a core course.
2. The student's thesis 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