

 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 Graduate Certificate in Aerospace Engineering	<input checked="" type="checkbox"/> New Program* <input type="checkbox"/> Change Program*	Effective Date (TERM & YEAR) Fall 2021
Please explain the requested change(s) and offer rationale below or on an attachment. The State of Florida, because of its geographic location, NASA and a large number of aerospace engineering companies in the area will benefit from graduates of this certificate.		
<small>*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.</small>		
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>M. Cardel</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 14:57:42 -05'00'</small> <small>Digitally signed by Francisco Presuel-Moreno DN: cn=Francisco Presuel-Moreno, o=Florida Atlantic University, ou=Ocean and Mechanical Engineering, email=fpresuel@fau.edu, c=US Date: 2021.03.14 18:01:56 -04'00'</small> <small>Digitally signed by M. Cardel DN: cn=M. Cardel, o=Florida Atlantic University, ou=Engineering, email=mcardei@fau.edu, c=US Date: 2021.03.14 20:07:11 -04'00'</small> <small>Digitally signed by Paul R. Palmer DN: cn=Paul R. Palmer, o=Florida Atlantic University, ou=Engineering, email=ppalmer@fau.edu, c=US Date: 2021.03.14 20:07:11 -04'00'</small> <small>Digitally signed by Robert W. Shurtley DN: cn=Robert W. Shurtley, o=Florida Atlantic University, ou=Engineering, email=rshurtley@fau.edu, c=US Date: 2021.03.14 20:07:11 -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.

Aerospace Engineering Graduate Certificate

The State of Florida, because of its geographic location, NASA and a large number of aerospace engineering companies in the area will benefit from graduates of this certificate. This 12-credit certificate can be completed on campus or online. The certificate requires satisfactory completion of four 3-credit graduate courses.

Admission

The Aerospace Engineering certificate is open to students who have a B.S. degree in a related field of Engineering, have a GPA of at least 3.0 or equivalent and have satisfied all the prerequisites required for each course in the program. All courses must be completed with a GPA of 3.0 or better. The certificate courses are listed in the table below. Additional courses may be approved by the advisor.

Certificate Courses (12 credits)		
Core Courses		
Advanced Fluid Dynamics	EML 6716	3
Principles of Aerodynamics	EML 6930	3
Elective Courses (Choose two of the courses below)		
Computational Fluid Dynamics	EOC 6189	3
Fracture Mechanics	EML 6239	3
Introduction to Finite Element	EGM 5351	3
Advanced Strength of Materials	EGM 6533	3
Advanced Dynamics	EML 6271	3
Mechanics of Composite Materials	EML 6562	3
Turbomachinery	EML 6402	3