Fau	NEW/CHANGE PROGR Graduate Prog	and the second	UGPC Approval UFS Approval Banner Posted
FLORIDA ATLANTIC	Department Ocean and Mechanical Engi	ineering	Catalog
UNIVERSITY	College College of Engineering and Co	omputer Science	
	e Graduate Certificate	New Program Change Program	Effective Date (TERM & YEAR) Fall 2020
Please explain	the requested change(s) and offer ra	ationale below or on ar	attachment
	Advanced Energy Conversion Processes		
Francisco Presuel-	Email/Phone -Moreno, fpresuel@fau.edu, 954-924-7236	Consult and list departs the change(s) and attac CEGE, CEECS	ments that may be affected by th documentation
Approved by			Date
Department Chain College Curriculu College Dean UGPC Chair UGC Chair Graduate College	m Chair Ramesh Teegavarapu Populaliyang Popu	And by Rumeh Teggycarpus eth Teggycarpus eth Teggycarpus availas etks cst. availas etks cst. 122 132718 -9300	11/18/2019 11/22/2019 11/22/2019
UFS President			

Email this form and attachments to UGPC@fau.edu one week before the UGPC meeting so that materials may be viewed on the UGPC website prior to the meeting.

Provost

Energy Resilience Certificate

The availability of reliable electric power is foundational to the health and safety of citizens as well as the economy. Technology is rapidly providing solutions that increase the efficiency and resiliency of the electrical grid, while renewable energy technologies are providing cleaner sources of electric power. These technological advances are made possible by engineers and scientists with advanced knowledge of the power grid, data analysis techniques and renewable energy extraction. By specializing in these areas, graduate students will be well prepared to contribute to the efficiency and resiliency of the electrical grid as well as renewable power generation.

This 12-credit certificate provides graduate students with knowledge and skills in the concepts and technologies necessary to improve the efficiency and resiliency of energy generation, transmission and distribution.

Admission

This certificate program is open to students with a bachelor's degree in engineering or science and a GPA of at least 3.0. Students must satisfy the prerequisites for each course in the program. The average GPA of all four courses counted in the program must be 3.0 or better. All course materials are in English; all international students must demonstrate proficiency in English to enter the program.

Curriculum

Core Courses		
Advanced Energy Engineering/Energy Engineering	CGN 5715	3
Smart Grid	EEL 6291	3
Elective Courses (choose two)		
Power System Analysis and Control	EEL 5256	3
Solar Energy Engineering	EML 6417C	3
Wind Turbine Systems	EML 6456	3
Marine Renewable Energy	EOC 6145	3
Advanced Energy Conversion Processes and Systems	EML 6451	<u>3</u>