

 FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST Undergraduate Programs	UUPC Approval <u>4-26-21</u> UFS Approval _____ Banner Posted _____ Catalog _____
	Department Ocean & Mechanical Engineering College COECS	
Program Name Undergraduate Certificate Program in Underwater Acoustics	<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 This undergraduate certificate program (a total of 15 credits) in Underwater Acoustics offered by O&ME Department is designed to combine broad engineering disciplines with knowledge of engineering principles specific to underwater acoustics. This program is in support of preparing students to work at companies and governmental agencies that specialize in underwater acoustics.		
Faculty Contact/Email/Phone Dr. P. Edgar An/pan@fau.edu/561-297-2792	Consult and list departments that may be affected by the change(s) and attach documentation	
Approved by Department Chair <u>Manhart</u> College Curriculum Chair <u>[Signature]</u> College Dean <u>Fred Bloetscher</u> UUPC Chair <u>Jerry Haky</u> Undergraduate Studies Dean <u>Edward Pratt</u> UFS President _____ Provost _____	Date <u>4-12-21</u> <u>4-15-21</u> <u>4-15-21</u> <u>4-26-21</u> <u>4-26-21</u> _____ _____	

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

Undergraduate Certificate Program in Underwater Acoustics

This undergraduate certificate program (a total of 15 credits) in Underwater Acoustics offered by OME Department is designed to combine broad engineering disciplines with knowledge of engineering principles specific to underwater acoustics. This program is in support of preparing students to work at companies and governmental agencies that specialize in underwater acoustics.

Curriculum

To earn this certificate, a student must successfully complete the following:

a) Two required courses (6 credits) in the field of underwater acoustics:

- EOC 3306 Acoustics for OE (3 credits)
- EOC 4307C or EOC 5934 Underwater Acoustics (3 credits)

and two courses (6 credits) from the following:

- EOC 4124 or EOC 5934 Ship Hydrodynamics (3 credits)
- EOC 4412 or EOC 5934 Ocean Structures (3 credits)
- EOC 4600 Intro to Ocean Instrumentation or EOC 6625 Ocean Instrumentation (3 credits)
- EGN 4670C Innovative Sensing and Actuation Technologies (3 credits)
- EGM 4350 Finite Element Analysis in Engineering Design (3 credits)

b) A faculty mentored design project with elements of underwater acoustics (3 credits), carried out either as part of:

- RI: OE Systems Control and Design (EOC4804) course (3 credits)

Or

- EGN 4915 Directed Independent Research (3 credits)

Or

- EOC 4905 Directed Independent Study (3 credits)