

 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 BS to PhD programs; PhD Ocean Engineering; PhD Mechanical Engineering		☐ New Program* ☒ Change Program*	Effective Date (TERM & YEAR) Fall 2024
Please explain the requested change(s) and offer rationale below or on an attachment. OME department is adding the course Advanced Research (EML 6918) to the Ph.D. programs in Ocean Engineering, Mechanical Engineering. In addition, the Advanced Research course is added as an option to the BS to PhD programs. Students taking the Advanced Research course will focus on research activities that are relevant to the student's course of study. This course requires oversight by the student's advisor who can assess the student's performance at the end of the semester. This course can only be taken prior to admission to candidacy for the doctoral degree and may be repeated in multiple semester. (Note however, that not all credits would count towards the degree)			
*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.			
Faculty Contact/Email/Phone Pierre-Philippe Beaujean, pbeaujea@fau.edu, 9549247051		Consult and list departments that may be affected by the change(s) and attach documentation NA	
Approved by Department Chair <u>Pierre Philippe Beaujean</u> College Curriculum Chair <u>Masoud Jahandar Lashaki</u> College Dean <u>M. Cardei</u> UGPC Chair <u>P. R. Pelou</u> UGC Chair <u>P. R. Pelou</u> Graduate College Dean <u>Robert W. Smith</u> UFS President _____ Provost _____			Date 2/20/2024 2/20/2024 2/26/2024 03/21/2024 03/21/2024 03/21/2024 _____ _____

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

Ocean Engineering

Doctor of Philosophy (Ph.D.)

Degree Requirements

The degree of Doctor of Philosophy in Ocean Engineering will be conferred on candidates who have fulfilled the following requirements:

1. Completed a minimum of 42 credits of course and dissertation work after the M.S. degree for students transferring 30 credits (72 credits for those admitted to the Ph.D. directly after the B.S. degree). Of the 42 credits, 18 credits must be coursework;
2. Of the 18-credit minimum of coursework, at least 12 credits must be from the Ocean, Mechanical*, Civil* or Geomatics* Engineering programs. No more than 3 credits of directed independent study or OME advanced research may be used to satisfy the 18-credit minimum;

B.S. to Ph.D. Program

A student with outstanding scholastic achievement who holds only a baccalaureate degree (B.S.) may be admitted directly to the Ph.D. program in Ocean Engineering. The student with a B.S. will be required to complete a total of 72 credits of course and dissertation work for the Ph.D. Out of the minimum of 42 credits of graduate coursework, at least 27 of the credits must be taken from the Ocean Engineering list of courses, and all core course requirements must be satisfied. A minimum of 30 credits of doctoral dissertation research will be required. No more than 39 dissertation credits may be counted toward the 72-credit requirement. The remaining credits may be selected from the listing of OE courses, advanced mathematics courses, elective courses, directed independent study (DIS) / OME advanced research course. A minimum of 9 credits of graduate-level mathematics must be satisfied.

Mechanical Engineering

Doctor of Philosophy (Ph.D.)

Degree Requirements

A central requirement for the Ph.D. degree in Mechanical Engineering is submission and defense of a dissertation based upon original research in an area of focus acceptable to the student's supervisory committee. The completed dissertation must be approved by the committee, the department chair and the Graduate College. A minimum of 72 graduate credits is required beyond a bachelor's degree. A master's degree in a related field is considered equivalent to 30 credits. Additional requirements are:

1. A minimum of 42 credits of coursework beyond the baccalaureate degree, or a minimum of 18 credits beyond the master of science degree;
2. No more than 3 credits of directed independent study **or OME advanced research course** may be used to satisfy the minimum 18 credits of coursework;