

 FLORIDA ATLANTIC UNIVERSITY	NEW COURSE PROPOSAL Undergraduate Programs		UUPC Approval <u>2/24/20</u> UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____
	Department Ocean and Mechanical Engineering College Engineering and Computer Science <i>(To obtain a course number, contact erudolph@fau.edu)</i>		
Prefix EML Number 4450	<i>(L = Lab Course; C = Combined Lecture/Lab; add if appropriate)</i> Lab Code	Type of Course Lecture	Course Title Introduction to Energy Conversion Processes and Systems
Credits <i>(Review Provost Memorandum)</i> 3	Grading <i>(Select One Option)</i> Regular <input checked="" type="radio"/> Pass/Fail <input type="radio"/> Sat/UnSat <input type="radio"/>	Course Description <i>(Syllabus must be attached; Syllabus Checklist recommended; see Guidelines)</i> Introduction to principles, theories, and processes of devices and systems that convert thermal, chemical, solar, biological & electromagnetic energy to electrical, mechanical, & alternative chemical forms. Energy conversion performance characteristics & sources of inefficiencies are explored for applications that include fossil energy combustion, solar, wind, hydro, biomass, thermoelectric, & geothermal energy systems. Some interesting topics including carbon capture/storage and fuel cells.	
Effective Date <i>(TERM & YEAR)</i> Fall 2020	Prerequisites, with minimum grade* EML3701 or CWR3201C with minimum grade of "C"		Corequisites EML3701 or CWR3201C
		Registration Controls <i>(Major, College, Level)</i>	
<i>*Default minimum passing grade is D-. Prereqs., Coreqs. & Reg. Controls are enforced for all sections of course</i>			
WAC/Gordon Rule Course <input type="radio"/> Yes <input checked="" type="radio"/> No WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to proposal. See WAC Guidelines .		Intellectual Foundations Program (General Education) Requirement <i>(Select One Option)</i> None General Education criteria must be indicated in the syllabus and approval attached to the proposal. See GE Guidelines .	
Minimum qualifications to teach course M.S. degree in the discipline or related field			
Faculty Contact/Email/Phone Kim/kimm@fau.edu/561-297-3442		List/Attach comments from departments affected by new course	
Approved by Department Chair <u><i>Mark O'Connell</i></u> College Curriculum Chair <u><i>Debra</i></u> College Dean <u><i>A. E. Kelly</i></u> UUPC Chair _____ Undergraduate Studies Dean <u><i>E. Pratt</i></u> UFS President _____ Provost _____		Date _____ <u><i>02/20/2020</i></u> <u><i>2-24-20</i></u> _____ <u><i>2/25/20</i></u> _____	

Email this form and syllabus to mjenning@fau.edu seven business days before the UUPC meeting.