

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW COURSE PROPOSAL</b> <b>Undergraduate Programs</b>		UUPC Approval <u>1/27/20</u> UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____
	Department Ocean and Mechanical Engineering College COECS (To obtain a course number, contact erudolph@fau.edu)		
Prefix <b>BME</b> Number <b>4580</b>	(L = Lab Course; C = Combined Lecture/Lab; add if appropriate) Lab Code _____	Type of Course Lecture	Course Title <b>Introduction to Microfluidics and MEMS</b>
Credits (Review Provost Memorandum) <b>3</b>	Grading (Select One Option) Regular <input checked="" type="radio"/> Pass/Fail <input type="radio"/> Sat/UnSat <input type="radio"/>	Course Description (Syllabus must be attached; Syllabus Checklist recommended; see Guidelines) A comprehensive introduction to microfluidics, micro-electro-mechanical systems (MEMS) and microfabrication techniques. Topics include laminar flow, viscosity, surface tension, dimensionless numbers, Electrokinetics, photolithography, soft lithography, flow control, and flow sensors of micrometer scale.	
Effective Date (TERM & YEAR) <b>Fall 2020</b>		Prerequisites, with minimum grade* <b>EML 3701 Fluid Mechanics, MAP 3305 Eng. Math, with a minimum C grade.</b>	Corequisites  Registration Controls (Major, College, Level) <b>Major</b>
*Minimum passing grade is C. Prereqs., Coreqs. & Reg. Controls are enforced for all sections of course			
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 <a href="#">WAC Guidelines</a> .		Intellectual Foundations Program (General Education) Requirement (Select One Option) None General Education criteria must be indicated in the syllabus and approval attached to the proposal. See <a href="#">GE Guidelines</a> .	
Minimum qualifications to teach course MS degree in related engineering fields			
Faculty Contact/Email/Phone Sarah Du/edu@fau.edu/561-2973441		List/Attach comments from departments affected by new course None	
Approved by Department Chair <u>[Signature]</u> College Curriculum Chair <u>[Signature]</u> College Dean _____ UUPC Chair <u>[Signature]</u> Undergraduate Studies Dean <u>[Signature]</u> UFS President _____ Provost _____		Date <u>11-20-2019</u> _____ <u>1-25-20</u> <u>1-27-20</u> <u>1/31/20</u> _____ _____	

Email this form and syllabus to [mjennings@fau.edu](mailto:mjennings@fau.edu) seven business days before the UUPC meeting.