

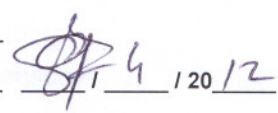
**FLORIDA INTERNATIONAL UNIVERSITY  
UNIVERSITY CURRICULUM COMMITTEE**  
*Proposal for a New Course*

**DO NOT TYPE IN THIS BOX**

Bulletin # : \_\_\_\_\_  
Academic Year : \_\_\_\_\_

- 1a. SCHOOL/COLLEGE Engineering and Computing DIV./DEPT. IN WHICH TAUGHT Electrical and Computer Engineering
- b. DIV./DEPT. NO. EGEL DEPT. ACCOUNT NO. 212400101  
(9 digits)
2. EEL 4 XXX 3  
Alpha 1st last 3 "C"-lec-lab Cr. Hrs.  
Prefix Digit Digits "L"-Lab CIP Code  
(Leave this blank)
- 3a. Course Title MEMS I
- b. Abbreviated course Title (for computer class schedules, transcripts) MEMS I  
LIMITED TO 25 Characters (including spaces)
4. Statewide Course Numbering Subject Matter Area \_\_\_\_\_
5. Catalog Description/Major Topics (not to exceed 200 characters including spaces)  
This course will give the students an introduction to MEMS-based microsystems with an emphasis on design and analysis of interdisciplinary systems at microscale.
6. ATTACH DETAILED SYLLABUS COURSE OUTLINE AND COURSE JUSTIFICATION ON SEPARATE PAGE(S).
7. Prerequisite(s): EEE 3396 Introduction to solid state devices
8. Corequisite(s) \_\_\_\_\_
9. Objective(s) of Course: To give the students an understanding of the standard microfabrication techniques and the issues surrounding them. To give the students an overview of the major classes, components and applications of microsystems and the fundamental principles behind the operation of these systems. To apply the knowledge of microfabrication techniques for designing a microsystem.
10. Does this course duplicate/overlap other courses at FIU?  No  Yes  
If yes, please explain: \_\_\_\_\_
11. What other closely related department(s) have been consulted about this course? \_\_\_\_\_

**PROPOSAL REQUESTED BY:**

Faculty Contact	<u>Herman Watson</u>	_____/_____/20
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	(Email address)	(Phone number)
Chairperson (Dept./Div.)	<u>Shekhar Bhansali</u>	 / 20 / 12
	(Type name)	(Signature)
Chairperson (Curr. Comm.)	<u>Nagarajan Prabhakaran</u>	_____/_____/20
	(Type name)	(Signature)
College/School Dean	<u>Amir Mirmiran</u>	_____/_____/20
	(Type name)	(Signature)

**APPROVED BY:**

University Curriculum Committee \_\_\_\_\_ / \_\_\_\_ / 20

Faculty Senate Chairperson \_\_\_\_\_ / \_\_\_\_ / 20

Academic Affairs V.P. \_\_\_\_\_ / \_\_\_\_ / 20

**Submit one original copy of this form. Attach one hard copy and one electronic copy of the course syllabus containing: Objectives, Learning Outcomes, Major Topics and Textbooks.**