

DEPARTMENT Biomedical Engineering

DATE SUBMITTED 3/26/03

DATE EFFECTIVE 9/25/03

INSTRUCTIONS: Please check the items below which describe the purpose of this request.

PURPOSE

- | | | | |
|-------------------------------------|--|--------------------------|--|
| <input type="checkbox"/> | 1. Deletion of a course | <input type="checkbox"/> | 8. Change in semesters offered |
| <input checked="" type="checkbox"/> | 2. New course with supporting documents | <input type="checkbox"/> | 9. Change in course credit/type |
| <input type="checkbox"/> | 3. Add existing course offered at another campus | <input type="checkbox"/> | 10. Change in course attributes |
| <input type="checkbox"/> | 4. Change in course number at same level | <input type="checkbox"/> | 11. Change in instructional hours |
| <input type="checkbox"/> | 5. Downgrading of course level | <input type="checkbox"/> | 12. Change in prerequisites |
| <input type="checkbox"/> | 6. Upgrading of course level | <input type="checkbox"/> | 13. Change in description of course content |
| <input type="checkbox"/> | 7. Change in course title | <input type="checkbox"/> | 14. Transfer of course from one dept. to another |

EXISTING:

PROPOSED:

SEMESTERS OFFERED

Subject Abbreviation BME Subject Abbreviation BME
 Course Number 595 Course Number 581
 Proposed Title Fundamentals of MEMS and Micro-Integrated Systems
 Variable Title Yes No

Check All That Apply.

Summer Fall Ag Winter Spring

Abbreviated Title Fund MEMS&Micr Int Sys
 Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

CROSS LISTED COURSES
ECE 526

CREDIT TYPE
 1. Fixed Credit: Cr. Hrs. 3
 2. Variable Credit Range:
 Minimum Cr. Hrs. Or
 Maximum Cr. Hrs.
 3. Equivalent Credit: Yes No
 4. Thesis Credit: Yes No

COURSE ATTRIBUTES: Check All That Apply.

1. Pass/Not Pass Only
 2. Repeatable for Credit
 3. Available for Credit by Examination
 4. Designator Required
 5. Special Fees
 6. Approval Required for Enrollment
 Department
 Instructor

Instructional Type	Class Hours	FTE	Instructional Type	Class Hours	FTE	Instructional Type	Class Hours	FTE
Primary	3		Auto-tutorial			Thesis		
Secondary			Ind. Study			Observation		
Laboratory			Clinic			Mats Based		
Lab. Prep.			Experiential					

CAMPUS(ES) INVOLVED
 Calumet
 Fort Wayne
 Indianapolis
 North Central
 West Lafayette
 Off Campus

COURSE DESCRIPTION (PREREQUISITES INCLUDED): (Offered in alternate years.)

Key topics in micro-electro-mechanical systems (MEMS) and biological micro-integrated systems; properties of materials for MEMS; microelectronic process modules for design and fabrication. Students will prepare a project report on design of a biomedical MEMS-based micro-integrated system.

Professor Bashir. ²the

Prerequisite: senior or graduate standing and consent of instructor.

Calumet Undergrad Curriculum Committee	Date	Calumet Department Head	Date	Calumet School Dean	Date
Fort Wayne Department Head	Date	Fort Wayne School Dean	Date	Fort Wayne Chancellor M.D. Zoltowski, Chair	Date #972 4/29/03
Indianapolis Department Head	Date	Indianapolis School Dean	Date	Undergrad Curriculum Committee	Date
North Central Department Head	Date	North Central Vice Chancellor	Date	APPROVED 10/16/03	Date Approved by Graduate Council
West Lafayette Department Head	Date	West Lafayette School Dean	Date	Marilyn D. Heist	Date 1/7/04
Graduate Area Committee Convener	Date	Graduate Dean	Date	Debra Sheets	Date 1/14/04