

DEPARTMENT Electrical & Computer Engineering

DATE SUBMITTED 1/19/2001

DATE EFFECTIVE 8/20/2001  
Spring 2004

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:

Subject Abbreviation \_\_\_\_\_ Subject Abbreviation EE ECE  
Course Number \_\_\_\_\_ Course Number 620

Proposed Title Introduction to Biomedical Imaging Systems  
Variable Title Yes  No

Abbreviated Title Intro Biomed Imag Sys

Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

SEMESTERS OFFERED

\* Spring of Even Years  
Check All That Apply.

Summer  Fall  Ag Winter  Spring

CROSS LISTED COURSES

~~BME 630~~

CREDIT TYPE

- Fixed Credit: Cr. Hrs. 3
- Variable Credit Range:  
Minimum Cr. Hrs \_\_\_\_\_  
(Check One) To \_\_\_\_\_ Or \_\_\_\_\_  
Maximum Cr. Hrs \_\_\_\_\_
- Equivalent Credit: Yes  No
- Thesis Credit: Yes  No

COURSE ATTRIBUTES: Check All That Apply.

- Pass/Not Pass Only
  - Repeatable for Credit
  - Available for Credit by Examination
  - Designator Required
  - Special Fees
  - Approval Required for Enrollment
- Department \_\_\_\_\_  
Instructor \_\_\_\_\_

Instructional Type	Class Hours	FTE	Instructional Type	Class Hours	FTE	Instructional Type	Class Hours	FTE
Primary	<u>3</u>		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):

Pre- or co-requisite: ~~EE 637 or permission of the instructor.~~ consent of instructor. (Offered in alternate years.)  
Overview of biomedical imaging systems and analysis. Examination of various imaging modalities, including X-ray, ultrasound, nuclear, and MRI. Microscopy including how images are formed and what types of information they provide. Image analysis techniques including analysis of cardiac ultrasound, mammography, and MRI functional imagery. Professor Delp.

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 <u>C.D. Sutton</u>	Date
Indianapolis Department Head	Date	Indianapolis School Dean	Date	Appr. for Faculty <u>C.D. Sutton, Chair</u>	#949 9/5/01
North Central Department Head	Date	North Central School Dean	Date	Undergrad Curriculum Committee	Date
West Lafayette Department Head <u>L. K. Delp</u>	<u>1/22/2001</u>	West Lafayette School Dean <u>L. J. Huggins</u>	<u>6 Sept 01</u>	APPROVED 11/15/01	
Graduate Area Committee Convener <u>R. Blum</u>	<u>11/15/01</u>	Graduate Dean	Date	Date Approved by Graduate Council	
				Graduate Council Secretary <u>Marilyn D. Heist</u>	<u>6/14/02</u>
				West Lafayette Registrar <u>Debra Shultz</u>	<u>7/5/02</u>

