

DEPARTMENT School of Electrical and Computer Engineering

DATE SUBMITTED 12/7/2001

DATE EFFECTIVE Spring 2003

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 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 checked="" type="checkbox"/> 12. Change in prerequisites |
| <input type="checkbox"/> 6. Upgrading of course level | <input checked="" 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:

Subject Abbreviation EE ECE
Course Number 637

PROPOSED:

Subject Abbreviation _____
Course Number _____

SEMESTERS OFFERED

Check All That Apply.

Summer Fall Ag Winter Spring

Proposed Title Digital Image Processing I

Variable Title Yes No

Abbreviated Title _____

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

CROSS LISTED COURSES

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
Primary
Secondary
Laboratory
Lab. Prep.

Class Hours 3
FTE _____

Instructional Type
Auto-tutorial
Ind. Study
Clinic
Experiential

Class Hours _____
FTE _____

Instructional Type
Thesis
Observation
Matis Based

Class Hours _____
FTE _____

CAMPUS(ES) INVOLVED

Calumet
Fort Wayne
Indianapolis
North Central
West Lafayette
Off Campus

COURSE DESCRIPTION (PREREQUISITES INCLUDED):

Introduction to digital image processing techniques for enhancement, compression, restoration, reconstruction, and analysis. Lecture and experiments covering a wide range of topics. 2-D signals and systems, image analysis, and image segmentation. Achromatic vision, color image processing, color imaging systems, image sharpening, interpolation, decimation, linear and nonlinear filtering, printing and display of images. Image compression, image restoration, and tomography.

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 Appr. for Faculty <u>C.D. Sutton</u> C.D. Sutton, Chair	Date #958 2/1/02
Indianapolis Department Head	Date	Indianapolis School Dean	Date	Undergrad Curriculum Committee	Date
North Central Department Head	Date	North Central Vice Chancellor	Date	Date Approved by Graduate Council	
West Lafayette Department Head	Date <u>1/4/02</u>	West Lafayette School Dean	Date <u>4 Feb 02</u>	Graduate Council Secretary	Date <u>11/21/02</u>
Graduate Area Committee Convener	Date	Graduate Dean	Date <u>11/21/02</u>	West Lafayette Registrar	Date <u>11/26/02</u>

