

DEPARTMENT School of Electrical and Computer Engineering

DATE SUBMITTED 12/7/2001

DATE EFFECTIVE Summer 2002

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 577

PROPOSED:

Subject Abbreviation _____
Course Number _____

SEMESTERS OFFERED

Check All That Apply.
Summer Fall Ag Winter Spring

Proposed Title Engineering Aspects of Remote Sensing

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	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			Matts Based		
Lab. Prep.			Experiential					

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

COURSE DESCRIPTION (PREREQUISITES INCLUDED):

Prerequisite: EE 301 (or equivalent) and EE 302 (or equivalent), or graduate standing.
 Introduction to the concepts of multispectral image data generation and analysis. Basic principles of optical radiation, reflection and measurement in natural scenes. Fundamentals of multispectral sensor design and data analysis for complex scenes. Application of signal processing and signal design principles and of statistical pattern recognition to these problems. Spatial image processing methods and algorithms as appropriate to land scene data. Practice with analysis of actual aircraft and spacecraft data in a cross-disciplinary environment.

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> Appr. for Faculty #958 C.D. Sutton, Chair 2/1/02	Date
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	
<u>W. K. R.</u> West Lafayette Department Head	<u>1/4/2002</u> Date	<u>Philip J. Pope</u> West Lafayette School Dean	<u>4 Feb 02</u> Date	<u>Marilyn D. Hiest</u> Graduate Council Secretary	<u>3/5/02</u> Date
Graduate Area Committee Convener	Date	Graduate Dean	Date	West Lafayette Registrar	Date
		<u>Philip J. Pope</u>	<u>3/5/02</u>	<u>Debra Sheets</u>	<u>3/6/02</u>

