

DEPARTMENT Materials Engineering

DATE SUBMITTED 3/28/03

DATE EFFECTIVE Fall 2003

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

PURPOSE

- | | |
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| <ul style="list-style-type: none"> <input type="checkbox"/> 1. Deletion of a course <input type="checkbox"/> 2. New course with supporting documents <input type="checkbox"/> 3. Add existing course offered at another campus <input type="checkbox"/> 4. Change in course number at same level <input type="checkbox"/> 5. Downgrading of course level <input type="checkbox"/> 6. Upgrading of course level <input type="checkbox"/> 7. Change in course title | <ul style="list-style-type: none"> <input type="checkbox"/> 8. Change in semesters offered <input type="checkbox"/> 9. Change in course credit/type <input type="checkbox"/> 10. Change in course attributes <input type="checkbox"/> 11. Change in instructional hours <input type="checkbox"/> 12. Change in prerequisites <input type="checkbox"/> 13. Change in description of course content <input type="checkbox"/> 14. Transfer of course from one dept. to another |
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EXISTING:

PROPOSED:

SEMESTERS OFFERED

Subject Abbreviation _____ Subject Abbreviation MSE
Course Number _____ Course Number 581

Check All That Apply.
Summer Fall Ag Winter Spring

Proposed Title Scanning Electron Microscopy Skills

Variable Title Yes No

Abbreviated Title SEM Skills

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

CROSS LISTED COURSES

CREDIT TYPE

- 1. Fixed Credit: Cr. Hrs. 1
- 2. Variable Credit Range:
Minimum Cr. Hrs _____
(Check One) To 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	3		Clinic			Matts Based		
Lab. Prep.			Experiential					

CAMPUS(ES) INVOLVED

- Calumet
- Fort Wayne
- Indianapolis
- North Central
- West Lafayette
- Off Campus

and Offered as Admission by consent of instructor.

COURSE DESCRIPTION (PREREQUISITES INCLUDED):

Sem. 1, 2, SS. Class 3, lab,3, (weeks 1-5) cr. 1. ~~Available pass/not-pass only~~ Prerequisite: ~~Consent of instructor.~~
Components and operation of the scanning electron microscope (SEM). Limits to resolution; signals, detectors, and imaging modes; interpretation of results. Laboratory sessions emphasize the practical operation of the instrument and culminate in a test of student skills. This course must be completed before undertaking any SEM research in the School of Materials Engineering. Professors King and Kvam.

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>Michael D. Zoltowski</u> #972 Date <u>4/5/03</u> Apr. for Faculty M.D. Zoltowski, Chair
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 <u>3-31-03</u>	West Lafayette School Dean <u>L. J. King</u> 4/9/03 Date _____	Graduate Council Secretary <u>Marilyn D. Heist</u> 1/7/04 Date _____
Graduate Area Committee Convener _____ Date <u>10-16-03</u>	Graduate Dean _____ Date _____	West Lafayette Registrar <u>Debra Sheets</u> 1/14/04 Date _____

