

PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF A COURSE

Graduate Council Document 04-14a

DEPARTMENT SCHOOL OF CHEMICAL ENGINEERING

EFFECTIVE SESSION ~~1704~~ **EFD 8-03**
Spring 2005

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

- | | |
|---|---|
| <p>X</p> <ol style="list-style-type: none"> 1. New course with supporting documents 2. Add existing course offered at another campus 3. Expiration of a course 4. Change in course number 5. Change in course title 6. Change in course credit/type | <ol style="list-style-type: none"> 7. Change in course attributes 8. Change in instructional hours 9. Change in course description 10. Change in course requisites 11. Change in semesters offered |
|---|---|

PROPOSED:

Subject Abbreviation CHE
Course Number 517

EXISTING:

Subject Abbreviation ~~CHE~~
Course Number ~~597W~~

TERMS OFFERED

Check All That Apply:
Summer Fall Spring

Long Title MICRO/NANOSCALE PHYSICAL PROCESSES

Short Title MICRO/NANO PHYS PROCES

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

CAMPUS(ES) INVOLVED

Calumet Fort Wayne
Indianapolis N. Central
W.Lafayette Cont Ed
Tech Statewide

CREDIT TYPE

1. Fixed Credit: Cr. Hrs. 3
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. Satisfactory/Unsatisfactory Only
3. Repeatable
Maximum repeatable credit: _____
4. Credit by Examination
5. Designator Required
6. Special Fees

7. Registration Approval Type
Department Instructor
8. Variable Title
9. Remedial
10. Honors
11. Full Time Privilege
12. Off Campus Experience

Instructional Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated	Delivery Method (Asyn. Or Syn.)	Delivery Medium (Audio, Internet, Live, Text-Based, Video)
Lecture	50	3	16	100	SYN	LIVE
Presentation						
Laboratory						
Lab Prep						
Studio						
Distance						
Clinic						
Experiential						
Research						
Ind. Study						
Pract/Observ						

COURSE DESCRIPTION (INCLUDE REQUISITES):

CHE 517•Micro/Nanoscale Physical Processes (ME 517) Sem. 2. Class 3, cr. 3. Prerequisite: CHE 377 and ~~CHE 378~~ or equivalent, or consent of instructor. nanotechnology.
•Study of physical processes encountered in small scale systems like Micro-Electromechanical Systems (MEMS) and nanoscale analogs. Introduction of tools for micron to molecular scale analysis of statics, dynamics, electricity and magnetism, surface phenomena, fluid dynamics, heat transfer, and mass transfer. Quantitative analysis of specific MEMS devices using finite element analysis.

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	Date
Indianapolis Department Head	Date	Indianapolis School Dean	Date	Undergrad Curriculum Committee	Date
North Central Department Head	Date	North Central Chancellor	Date	APPROVED 4/22/04	Date Approved by Graduate Council
West Lafayette Department Head	Date	West Lafayette School Dean	Date	Graduate Council Secretary	Date
Graduate Area Committee Convener	Date	Graduate Dean	Date	West Lafayette Registrar	Date

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MAY 26 2004
ENGINEERING
ADMINISTRATION