

DEPARTMENT Nuclear Engineering

DATE SUBMITTED 3-15-03

DATE EFFECTIVE Fall 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 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 checked="" type="checkbox"/> 7. Change in course title             | <input checked="" type="checkbox"/> 14. Transfer of course from one dept. to another |

EXISTING:

PROPOSED:

SEMESTERS OFFERED

Subject Abbreviation CE  
Course Number 273

Subject Abbreviation NUCL  
Course Number 273

Check All That Apply.

Summer  Fall  Ag Winter  Spring

Proposed Title Mechanics of Materials

Variable Title Yes  No

Abbreviated Title Mech of Mtrls

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. 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. 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            | <u>3</u>    |     | Auto-tutorial      |             |     | Thesis             |             |     |
| Secondary          |             |     | Ind. Study         |             |     | Observation        |             |     |
| Laboratory         |             |     | Clinic             |             |     | Matis Based        |             |     |
| Lab. Prep.         |             |     | Experiential       |             |     |                    |             |     |

CAMPUS(ES) INVOLVED

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

COURSE DESCRIPTION (PREREQUISITES INCLUDED):

Mechanics of Materials. Sem. 1, 2 and SS, Class 3, cr. 3  
Prerequisite: ME 270 or consent of instructor.

Analysis of stress and strain; equations of equilibrium and compatibility; stress-strain laws; extension, torsion and bending of bars; membrane theory of pressure vessels; combined loading conditions; transformation of stresses and principal stresses; elastic stability, elected topics.

|  |      |  |      |   |      |
|--|------|--|------|---|------|
| 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 | <i>Robert E. Montgomery</i> 4/27/04<br>Undergrad Curriculum Committee | Date |
| North Central Department Head                              | Date | North Central Vice Chancellor                                | Date | Date Approved by Graduate Council                                     |      |
| <i>H. T. ...</i> 10/6/03<br>West Lafayette Department Head | Date | <i>Wendy H. Jamie</i> - 2/2/04<br>West Lafayette School Dean | Date | Graduate Council Secretary  | Date |
| Graduate Area Committee Convener                           | Date | Graduate Dean  | Date | <i>Debra Sheets</i> 2/4/04<br>West Lafayette Registrar                | Date |

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RECEIVED  
FEB 9 2004  
ADMINISTRATION