

DEPARTMENT Mechanical Engineering

DATE SUBMITTED 11/7/00

DATE EFFECTIVE Spr 2001

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

EXISTING:

PROPOSED:

SEMESTERS OFFERED

Subject Abbreviation _____ Subject Abbreviation ME
Course Number _____ Course Number 559

Check All That Apply.

Summer Fall Ag Winter Spring

Proposed Title Micromechanics of Materials

Variable Title Yes No

Abbreviated Title Micromechanics of Mtrl

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

CROSS LISTED COURSES

CREDIT TYPE

COURSE ATTRIBUTES: Check All That Apply.

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

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			Clinic			Malls Based		
Lab. Prep.			Experiential					

CAMPUS(ES) INVOLVED

Calumet
Fort Wayne
Indianapolis
North Central
West Lafayette
Off Campus

COURSE DESCRIPTION (PREREQUISITES INCLUDED):

ME 559 Micromechanics of Materials Sem. 2. Class 3, cr. 3. Prerequisite: senior standing or consent of instructor. Prediction of the macroscopic behavior of materials from their microstructure and the design of new materials. Microstructure-property relationships between the macroscopic material behavior and microscopic structure. Application to traditional structural as well as to new engineering materials. Adapting emerging constitutive relations into structure analyses. Introduction of this new approach to materials, its applications in predictive analysis tools, and its importance in simulation-based engineering. Professor Siegmund.

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 _____

Appr. for Faculty C.D. Sutton #935
C.D. Sutton, Chair 11/8/00

Indianapolis Department Head _____ Date _____ Indianapolis School Dean _____ Date _____ Undergrad Curriculum Committee _____ Date _____

APPROVED 4/19/01

North Central Department Head _____ Date _____ North Central Vice Chancellor _____ Date _____ Date Approved by Graduate Council _____

E. Daniel Horleman 11/2/00 L. J. Duggan 7/10/00 Marilyn D. Hunt 5/8/01
West Lafayette Department Head Date West Lafayette School Dean Date Graduate Council Secretary Date

Kathleen C. Howell 4/19/01 Debra Sheets 5/14/01
Graduate Area Committee Convener Date Graduate Dean Date West Lafayette Registrar Date

