

**PURDUE UNIVERSITY**  
REQUEST FOR ADDITION, EXPIRATION,  
OR REVISION OF AN UNDERGRADUATE COURSE  
(10000-40000 LEVEL)

DEPARTMENT Materials Engineering

EFFECTIVE SESSION Spring 2009

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

- |   |   |
|---|---|
| <input type="checkbox"/> 1. New course with supporting documents          | <input type="checkbox"/> 7. Change in course attributes (department head signature only)  |
| <input type="checkbox"/> 2. Add existing course offered at another campus | <input type="checkbox"/> 8. Change in instructional hours                                 |
| <input type="checkbox"/> 3. Expiration of a course                        | <input type="checkbox"/> 9. Change in course description                                  |
| <input checked="" type="checkbox"/> 4. Change in course number            | <input checked="" type="checkbox"/> 10. Change in course requisites                       |
| <input type="checkbox"/> 5. Change in course title                        | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
| <input type="checkbox"/> 6. Change in course credit/type                  | <input type="checkbox"/> 12. Transfer from one department to another                      |

|   |                                 |
|---|---------------------------------|
| <b>PROPOSED:</b>                              | <b>EXISTING:</b>                |
| Subject Abbreviation <u>MSE</u>               | Subject Abbreviation <u>MSE</u> |
| Course Number <u>260</u>                      | Course Number <u>350</u>        |
| Long Title <u>Thermodynamics of Materials</u> |                                 |
| Short Title <u>Thermo of Materials</u>        |                                 |

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

**TERMS OFFERED**  
Check All That Apply:

Summer  Fall  Spring

**CAMPUS(ES) INVOLVED**

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

**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

**COURSE ATTRIBUTES: Check All That Apply**

|  |   |
|--|---|
| <input type="checkbox"/> 1. Pass/Not Pass Only               | <input type="checkbox"/> 6. Registration Approval Type                  |
| <input type="checkbox"/> 2. Satisfactory/Unsatisfactory Only | Department <input type="checkbox"/> Instructor <input type="checkbox"/> |
| <input type="checkbox"/> 3. Repeatable                       | 7. Variable Title <input type="checkbox"/>                              |
| Maximum Repeatable Credit: <u>          </u>                 | 8. Honors <input type="checkbox"/>                                      |
| <input type="checkbox"/> 4. Credit by Examination            | 9. Full Time Privilege <input type="checkbox"/>                         |
| <input type="checkbox"/> 5. Special Fees                     | 10. Off Campus Experience <input type="checkbox"/>                      |

| ScheduleType | Minutes Per Mtg | Meetings Per Week | Weeks Offered | % of Credit Allocated |
|--------------|-----------------|-------------------|---------------|-----------------------|
| Lecture      | 50              | 3                 | 16            | 100                   |
| Discussion   |                 |                   |               |                       |
| Presentation |                 |                   |               |                       |
| Laboratory   |                 |                   |               |                       |
| Lab Prep     |                 |                   |               |                       |
| Studio       |                 |                   |               |                       |
| Distance     |                 |                   |               |                       |
| Clinic       |                 |                   |               |                       |
| Experiential |                 |                   |               |                       |
| Research     |                 |                   |               |                       |
| Ind. Study   |                 |                   |               |                       |
| Pract/Observ |                 |                   |               |                       |

**Cross-Listed Courses**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):**

Fundamental laws of thermodynamics and their applications to material systems; criteria for equilibrium; reaction and phase equilibria; properties of solutions; thermodynamic origins of phase diagrams.

|   |   |
|---|---|
| Calumet Department Head _____ Date _____        | Calumet School Dean _____ Date _____                |
| Fort Wayne Department Head _____ Date _____     | Fort Wayne School Dean _____ Date _____             |
| Indianapolis Department Head _____ Date _____   | Indianapolis School Dean _____ Date _____           |
| Central Department Head _____ Date _____        | North Central Chancellor _____ Date _____           |
| West Lafayette Department Head _____ Date _____ | West Lafayette College/School Dean _____ Date _____ |

*Jonda Schaffer*  
West Lafayette Registrar  
Date 12/18/08

12/18/08

RECEIVED  
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23163  
ENGINEERING  
ADMINISTRATION

EFD 49-07

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Print Form

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PROPOSED:

EXISTING:

Subject Abbreviation MSE

Subject Abbreviation MSE

Course Number 260

Course Number 350

Long Title Thermodynamics of Materials

Short Title Thermo of Materials

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Check All That Apply:

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 (Check One) To  Or   
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| Distance     |                 |                   |               |                       |
| Clinic       |                 |                   |               |                       |
| Experiential |                 |                   |               |                       |
| Research     |                 |                   |               |                       |
| Ind. Study   |                 |                   |               |                       |
| Pract/Observ |                 |                   |               |                       |

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|                                      |            |  |            |
|--------------------------------------|------------|--|------------|
| Calumet Department Head _____        | Date _____ | Calumet School Dean _____                | Date _____ |
| Fort Wayne Department Head _____     | Date _____ | Fort Wayne School Dean _____             | Date _____ |
| Indianapolis Department Head _____   | Date _____ | Indianapolis School Dean _____           | Date _____ |
| North Central Department Head _____  | Date _____ | North Central Chancellor _____           | Date _____ |
| West Lafayette Department Head _____ | Date _____ | West Lafayette College/School Dean _____ | Date _____ |

West Lafayette Registrar \_\_\_\_\_ Date \_\_\_\_\_



**TO:** The Engineering Faculty  
**FROM:** The Faculty of the School of Materials Engineering  
**DATE:** March 1, 2008  
**RE:** Course Number and Prerequisite Change

The faculty in the School of Materials Engineering have approved the changed course number and prerequisites of the course listed below. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**From:** MSE 350 Thermodynamics of Materials  
Sem. 2, Class 3, cr. 3.  
Prerequisite: CHM 373 or consent of instructor

**To:** MSE 260 Thermodynamics of Materials  
Sem. 2, Class 3, cr. 3.  
Prerequisite: MA 261; Co-requisite: MSE 230 or consent of instructor

Reason for Change:

The School of Materials Engineering has implemented a new curriculum (See EFD 50-07) in which the content of MSE 350 is presented in the sophomore year. Thus, the course number should begin with a 200 prefix. CHM 373 is removed from the new curriculum as a course requirement and thus is no longer a prerequisite.

Keith J. Bowman, Professor and Head  
School of Materials Engineering

APPROVED FOR THE FACULTY  
OF THE SCHOOLS OF ENGINEERING  
BY THE ENGINEERING  
CURRICULUM COMMITTEE

ECC Minutes #6

Date 10-8-06

Chairman ECC RJ Cipra

