

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

Print Form

Office of the Registrar
 FORM 40 REV. 12/09

DEPARTMENT Nuclear Engineering

EFFECTIVE SESSION Fall 2013

201420

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 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 |

PROPOSED:

EXISTING:

TERMS OFFERED
 Check All That Apply:

Subject Abbreviation _____ Subject Abbreviation NUCL _____
 Course Number _____ Course Number 32000 _____
 Long Title _____
 Short Title _____

Fall Spring Summer

CAMPUS(ES) INVOLVED

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

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

CREDIT TYPE

1. Fixed Credit: Cr. Hrs.
 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

1. Pass/Not Pass Only
 2. Satisfactory/Unsatisfactory Only
 3. Repeatable *Low*
 Maximum Repeatable Credit:
 4. Credit by Examination
 5. Special Fees
 6. Registration Approval Type Department Instructor
 7. Variable Title
 8. Honors
 9. Full Time Privilege
 10. Off Campus Experience

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

Cross-Listed Courses

RECEIVED

OCT 15 2013

OFFICE OF THE REGISTRAR

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

co-requisite with NUCL 32500 or consent of instructor

***COURSE LEARNING OUTCOMES:**

| | |
|---|---|
| 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 Faculty Senate Chair _____ Date _____ | Vice Chancellor for Academic Affairs _____ Date _____ |
| West Lafayette Department Head _____ Date _____ | West Lafayette College/School Dean _____ Date _____ |

Sandra Schaeffer 10/15/13

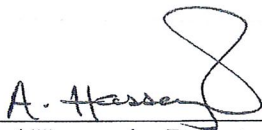
TO: The Faculty of the College of Engineering
FROM: Faculty of the School of Nuclear Engineering
SUBJECT: Change in Requisites for NUCL 32000, Nuclear Materials

The Faculty of the School of Nuclear Engineering has approved the change in requisites for NUCL 320000. This action is now submitted to the Engineering Faculty with a recommendation for approval.

From: NUCL 32000, Introduction to Materials for Nuclear Applications
Semester 1, Lecture 3, Cr. 3.
Requisites, Restrictions, and Attributes: pre-requisite of CE 27300 and MSE 23500 [may be taken concurrently]
Description: Nuclear environments and materials selection for nuclear applications, bonding, crystal structure and symmetry, defects and irradiation, chemical thermodynamics, phase equilibria, phase transformations, and corrosion in nuclear systems and design.

To: NUCL 32000, Introduction to Materials for Nuclear Applications
Semester 1, Lecture 3, Cr. 3
Requisites, Restrictions, and Attributes: co-requisite with NUCL 32500 or consent of instructor
Description: Nuclear environments and materials selection for nuclear applications, bonding, crystal structure and symmetry, defects and irradiation, chemical thermodynamics, phase equilibria, phase transformations, and corrosion in nuclear systems and design.

Reason: This course is an introductory course focused on materials topics for nuclear applications. Emphasis on nuclear and radiation effects on metals has been increased and more material in mechanical properties has been added. The faculty in the School of Nuclear Engineering has removed prerequisite of NUCL 27300 for this course since its emphasis on mechanical design has changed since Fall 2007.



Ahmed Hassanein, Department Head
Paul L. Wattlelet Professor
School of Nuclear Engineering

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

ECC Minutes 10/4/13

Date 10/4/13

Chairman ECC 