

TO: Faculty of College of Engineering
FROM: Faculty of the School of Nuclear Engineering
RE: Changes in Graduate Course NUCL 62000 – Mtls Phen Nuc Systems title

The Faculty of the School of Nuclear Engineering has approved the course title change listed below. This action is now submitted to the Engineering Faculty with a recommendation for approval.

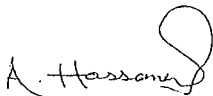
FROM: **NUCL 62000, Mtls Phen Nuc Systems**
Sem. 1, Class 3, Cr. 3
Restriction: Must be enrolled in the School of Nuclear Engineering, Prerequisite:
NUCL 52000

Materials phenomena unique to nuclear reactor environments and examined quantitatively. The relation between these phenomena and the structure and properties of engineering materials is discussed. Coupled phenomena are considered in relation to materials modeling codes.

TO: **NUCL 62000, Advanced Topics in Radiation Damage**
Sem. 1 Class 3, Cr. 3
Restriction: Must be enrolled in the School of Nuclear Engineering, Prerequisite:
NUCL 52000

Materials phenomena unique to nuclear reactor environments and examined quantitatively. The relation between these phenomena and the structure and properties of engineering materials is discussed. Coupled phenomena are considered in relation to materials modeling codes.

REASON: Course material is not accurately reflected in the original title.



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

Office of the Registrar
FORM 40G REV. 9/06

PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF A GRADUATE COURSE
(500-600 LEVEL)

DEPARTMENT School of Nuclear Engineering

EFFECTIVE SESSION Fall 2013

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

- | | |
|---|--|
| <input type="checkbox"/> 1. New course with supporting documents (complete proposal form) | <input type="checkbox"/> 7. Change in course attributes |
| <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 type="checkbox"/> 10. Change in course requisites |
| <input checked="" type="checkbox"/> 5. Change in course title | <input type="checkbox"/> 11. Change in semesters offered |
| <input type="checkbox"/> 6. Change in course credit/type | <input type="checkbox"/> 12. Transfer from one department to another |

PROPOSED:

EXISTING:

Subject Abbreviation NUCL

Subject Abbreviation _____

Course Number 62000

Course Number _____

Long Title Advanced Topics Radiation Damage

Short Title Adv Tpcs Rad Damage

Abbreviated title will be entered by the Office of the Registrar if omitted. (22 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.
2. Variable Credit Range:
Minimum Cr. Hrs. 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						
Recitation						
Presentation						
Laboratory						
Lab Prep						
Studio						
Distance						
Clinic						
Experiential						
Research						
Ind. Study						
Pract/Observ						

Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUISITES):

The students will learn:

- (1) Performance of nuclear materials in reactor environments
- (2) Effects of various radiations on materials damage and lifetime
- (3) Methods and techniques to extend the lifetime, safety, and reliability of reactor components

Calumet Department Head _____ Date _____	Calumet School Dean _____ Date _____	Calumet Undergrad Curriculum Committee _____ Date _____
Fort Wayne Department Head _____ Date _____	Fort Wayne School Dean _____ Date _____	Fort Wayne Chancellor _____ Date _____
_____ Date _____	Indianapolis School Dean _____ Date _____	Undergrad Curriculum Committee _____ Date _____
A. Hassan _____ Date _____	North Central Chancellor _____ Date _____	Date Approved by Graduate Council _____
West Lafayette Department Head _____ Date _____	West Lafayette College/School Dean _____ Date _____	Graduate Council Secretary _____ Date _____
Graduate Area Committee Convener _____ Date _____	Graduate Dean _____ Date _____	West Lafayette Registrar _____ Date _____

To: Purdue University Graduate Council
 From: Faculty Member: Dr. Ahmed Hassanein
 Department: School of Nuclear Engineering
 Campus: West Lafayette
 Date: September 23, 2013

For Reviewer's comments only	
Select One	
Reviewer:	_____
Comments:	_____

Subject: Proposal for New Graduate Course-Documents Supporting Registrar's Form 40

Contact information if questions arise	Name: <u>Dr. Ahmed Hassanein</u>
	Phone Number : <u>496-9731</u>
	E-mail: <u>hassanein@purdue.edu</u>
Course Number: <u>NUCL 620</u>	Campus Address: <u>NUCL 140C</u>
Course Title: <u>Advanced Topics Radiation Damage</u>	

A. Justification for the Course

Explain how this course relates to other courses offered in the department or other departments and how this course fulfills a recognized need.

This course is intended primarily for students Choose one: from within this department

B. Level of the course:

Justify request for graduate course level by indicating anticipated enrollments of undergraduate and graduate students.

Anticipated Undergraduate Student Enrollment: None

Anticipated Graduate Student Enrollment: 100%

C. Prerequisites: (If none, please explain reasons for absence)

NUCL 520

D. Course Instructor:

Instructor's Name Dr. Ahmed Hassanein

E1. Course Outline:

(An outline of topics to be covered and an indication of the relative emphasis or time devoted to each topic is necessary. If laboratory or field experience is involved, the nature of this component should be explained as well).

E2. Method of Evaluation or Assessment:

F. Reading List:

A reading list or bibliography should be limited to material the students will be required to read in order to successfully complete the course. It should not be a compilation of general reference material.