EFD 31-07

Office of the Registrar
FORM 40 REV. 9/06

PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE (100-400 LEVEL)

DEPARTMENT: Nuclear Engineering EFFECTIVE SESSION: Fall 2008

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

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

PROPOSED:		EXISTING:	
Subject Abbreviation		Subject Abbreviation	NUCL
Course Number		Course Number	450

Long Title: Design in Nuclear Engineering

Short Title: Design in Nuclear Engineering

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

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. 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						
Laboratory						
Lab Prep						
Studio						
Distance						
Clinic						
Experiential						
Research						
Ind. Study						
Pract/Observ						

Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUISITES):

Application of the design process to the project design topics identified in NUCL449. The design process usually includes, but not limited to, mathematical modeling in design, neutronic, thermal-hydraulics and safety studies, risk assessment, economics, policy and regulation, environmental impact.

	Date		Date
Calumet Department Head		Calumet School Dean	
Fort Wayne Department Head		Fort Wayne School Dean	
Indianapolis Department Head		Indianapolis School Dean	
N. Central Department Head		North Central Chancellor	
West Lafayette Department Head	5-2-08	West Lafayette College/School Dean	5/8/08
		West Lafayette Registrar	5/9/08

OFFICE OF THE REGISTRAR

5/8/08

EFD 31-07

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DEPARTMENT: Nuclear Engineering

EFFECTIVE SESSION: Fall 2008

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Subject Abbreviation		Subject Abbreviation	NUCL
Course Number		Course Number	450
Long Title	Design in Nuclear Engineering		
Short Title	Design in Nuclear Engineering		

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TERMS OFFERED
Check All That Apply:
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CAMPUS(ES) INVOLVED
☐ Calumet ☐ N. Central
☐ Cont Ed ☐ Tech Statewide
☐ Ft. Wayne ☑ W. Lafayette
☐ Indianapolis

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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 ☐
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Recitation						
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[illegible]atory						
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Studio						
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Clinic						
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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
[signature]	5-2-08	[signature]	5/6/08
West Lafayette Department Head	Date	West Lafayette College/School Dean	Date

West Lafayette Registrar Date

OFFICE OF THE REGISTRAR

Engineering Faculty Document No. 31-07
May 14, 2007

To: Faculty of the College of Engineering

From: Faculty of the School of Nuclear Engineering

RE: NUCL 450 Description

The faculty of the School of Nuclear Engineering has approved the following changes and submits them for your approval.

From:

NUCL 450 Design in Nuclear Engineering
Sem 2, Class 3, cr. 3
Prerequisites: NUCL 310, NUCL 402, NUCL 449

Application of the design process to the design of various reactor engineering components and systems. Mathematical modeling in design. Neutronic, economic, fuel, thermal, fluid, materials, and safety problems are considered.

To:

NUCL 450 Design in Nuclear Engineering
Sem 2, Class 3, cr. 3
Prerequisites: NUCL 310, NUCL 402, NUCL 449

Application of the design process to the project design topics identified in NUCL449. The design process usually includes, but is not limited to, mathematical modeling in design, neutronics, thermal-hydraulics and safety studies, risk assessment, economics, policy and regulation, environmental impact.

Reason: We are changing the description of the courses to better reflect the scope of the courses.

Vincent F. Bralts, Interim Head
School of Nuclear Engineering
Date: 05/23/2007

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

ECC Minutes #22

Date 4-9-08

Chairman ECC Michael Altenbaumer

Engineering Faculty Document No. 31-07
May 14, 2007

To: Faculty of the College of Engineering

From: Faculty of the School of Nuclear Engineering

RE: NUCL 450 Description

The faculty of the School of Nuclear Engineering has approved the following change and submits it for your approval.

From:

NUCL 450 Design in Nuclear Engineering
Sem 2, Class 8, cr. 3
Prerequisites: NUCL 310, NUCL 402, NUCL 449

Application of the design process to the design of various reactor engineering ~~components and systems. Mathematical modeling in design.~~ Neutronic, ~~economic~~, fuel, thermal, fluid, materials, and safety problems are considered.

To:

NUCL 450 Design in Nuclear Engineering
Sem 2, Class 8, cr. 3
Prerequisites: NUCL 310, NUCL 402, NUCL 449

Application of the design process to the project design topics identified in NUCL449. The design process usually includes, but not limited to, mathematical modeling in design, neutronic, thermal-hydraulics and safety studies, risk assessment, economics, policy and regulation, environmental impact.

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