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

DEPARTMENT: Nuclear Engineering
EFFECTIVE SESSION: Fall 2008

FOR: 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:

Subject Abbreviation: NUCL
Course Number: 450

EXISTING:

Subject Abbreviation: NUCL
Course Number: 450

TERMS OFFERED:

Check All That Apply:
- Summer
- Fall
- Spring

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

Long Title: Design in Nuclear Engineering
Short Title: Design in Nuclear Engineering

COURSE TYPE:
- Lecture
- Lab
- Clinical
- Experiential
- Research
- Pract/Observe

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

**DEPARTMENT:** Nuclear Engineering  
**EFFECTIVE SESSION:** Fall 2006

**TRUCTIONS:** 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 course number
5. Change course title
6. Change in course credit type
7. Change in course attributes (department head signature only)
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**PROPOSED:**

- **Subject Abbreviation:** NUCL

- **Course Number:** 450

- **Long Title:** Design in Nuclear Engineering

- **Short Title:** Design in Nuclear Engineering

**EXISTING:**

- **Subject Abbreviation:** NUCL

- **Course Number:** 450

**TERMS OFFERED:**

- **CAMPS (FR) INVOY VERI:**
  - Summer
  - Fall
  - Spring

- **Involvement:**
  - Calumet
  - Cont Ed
  - Ft. Wayne
  - Indianapolis
  - N. Central
  - Tech Statewide
  - W. Lafayette

**COURSE ATTRIBUTES:**

- **Registration Approval Type:**
- **Instructional Type:**
- **Minutes Per Mtg:**
- **Meetings Per Week:**
- **% of Credit Distributed:**
- **Delivery Method (Asyn, Or Syn.):**
- **Delivery Medium (Audio, Internet, Live, Text-Based, Video):**

**COURSE DESCRIPTION (INCLUDE REQUISITES):**

Application of the design process to the project design topics identified in NUCL 449. 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.

**Cross-Listed Courses:**

**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: 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

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

ECC Minutes #22
Date 4-9-08
Chairman ECC
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.

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