## Request for Addition, Expiration, or Revision of an Undergraduate Course

**Department:** Nuclear Engineering  
**Effective Session:** Fall 2008

### Actions
- [ ] New course with supporting documents
- [ ] Add existing course offered at another campus
- [ ] Expiration of a course
- [ ] Change in course number
- [ ] Change in course title
- [ ] Change in course credit/typ
- [ ] Change in course attributes (department head signature only)
- [ ] Change in instructional hours
- [ ] Change in course description
- [ ] Change in course requisites
- [ ] Change in semesters offered (department head signature only)
- [ ] Transfer from one department to another

### Proposed
- **Subject Abbreviation:** NUCL
- **Course Number:** 449
- **Long Title:** Senior Design Proposal
- **Short Title:** Senior Design Proposal

### Existing
- **Subject Abbreviation:** NUCL
- **Course Number:** 449

### Terms Offered
- **Check All That Apply:**
  - [ ] Summer
  - [ ] Fall
  - [ ] Spring

### Campus/Faculty Involved
- [ ] Calumet
- [ ] Cent Ed
- [ ] Ft. Wayne
- [ ] Tech Statewide
- [ ] W. Lafayette
- [ ] Indianapolis

### Credit Type
1. Fixed Credit Cr. Hrs.: ___
2. Variable Credit Range:
   - Minimum Cr. Hrs.: ___
   - Maximum Cr. Hrs.: ___
   - (Check One)
     - To ___
     - Or ___
3. Equivalent Credit: Yes ___
4. Thesis Credit: Yes ___

### Instructional Type
- Lecture
- R-Adm
- Lab
- Studio
- Distance
- Clinic
- Experiential
- Research
- Ind. Study
- Pract/Observer

### Weeks Offered
- [ ] 1
- [ ] 2
- [ ] 3

### % of Credit Allocated
- [ ] 5
- [ ] 7
- [ ] 11

### Delivery Method
- [ ] Asyn. Or Syn.
- [ ] Internet
- [ ] Live
- [ ] Test-Based
- [ ] Video

### Delivery Medium
- [ ] Cross-Listed Courses

### Course Description (Include Requisites)
- **Prerequisite:** NUCL 310
- **Co-requisite:** NUCL 402

The course outcome is the writing and presentation of a proposal for the senior design project, NUCL450. The tasks include the selection of project design topics (various nuclear engineering components and systems designs), the selection of teams, introduction to design process, team management, communication, and engineering ethics, literature and patents survey, initiation of design activities, and familiarization with design tools (for example software).

### Department Heads
- Calumet Department Head Date
- Fort Wayne Department Head Date
- Indianapolis Department Head Date
- North Central Department Head Date
- West Lafayette Department Head Date

### School Deans
- Calumet School Dean Date
- Fort Wayne School Dean Date
- Indianapolis School Dean Date
- West Lafayette College/School Dean Date

### Signatures
- Calumet Department Head: [Signature] 5-2-08
- Fort Wayne Department Head: [Signature] 5-2-08
- Indianapolis Department Head: [Signature] 5-2-08
- North Central Department Head: [Signature] 5-2-08
- West Lafayette Department Head: [Signature] 5-2-08
- West Lafayette Registrar: [Signature] 5-19-08

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**Office of the Registrar**
**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:**

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>EXISTING: Subject Abbreviation</th>
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<tbody>
<tr>
<td>NUCL</td>
<td>NUCL</td>
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<table>
<thead>
<tr>
<th>Courses Number</th>
<th>449</th>
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**Long Title**
Senior Design Proposal

**Short Title**
Senior Design Proposal

Abbreviated title will be entered by the Office of the Registrar if utilized. (22 CHARACTERS ONLY)

**COURSE ATTRIBUTES:** Check All That Apply

- [ ] 1. Pass/Not Pass Only
- [ ] 2. Satisfactory/Unsatisfactory Only
- [ ] 3. Repeatable
- [ ] 4. Maximum Repeatable Credit:
- [ ] 5. Designator Required
- [ ] 6. Special Fees
- [ ] 7. Registration Approval Type
- [ ] 8. Variable Title
- [ ] 9. Remedial
- [ ] 10. Honors
- [ ] 11. Full Time Privilege
- [ ] 12. Off Campus Experience

**TERMS OFFERED:** Check All That Apply

- [ ] Summer
- [ ] Fall
- [ ] Spring

**CAMPUS(ES) INVOLVED:**
- Calumet
- Cont Ed
- Ft. Wayne
- N. Central
- Tech Statewide
- W. Lafayette
- Indianapolis

**CREDIT TYPE**

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<tr>
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<th>2. Variable Credit Range:</th>
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Minimum Cr. Hrs  
Maximum Cr. Hrs  

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<th>3. Equivalent Credit:</th>
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<th>4. Thesis Credit:</th>
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**Institutional Type**

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<th>Recitation</th>
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<th>Experimental</th>
<th>Research</th>
<th>Ind. Study</th>
<th>Pract/Obser</th>
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<th>Minutes Per Mth</th>
<th>Meetings Per Week</th>
<th>Weeks Offered</th>
<th>% of Credit Allocated</th>
<th>Delivery Method</th>
<th>Delivery Medium (Audio, Internet, Live, Text-Based, Video)</th>
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**COURSE DESCRIPTION (INCLUDE REQUISITES):**

**Prerequisite:** NUCL 310

**Co-requisite:** NUCL 402

The course outcome is the writing and presentation of a proposal for the senior design project, NUCL 450. The tasks include the selection of project design topics (various nuclear engineering components and systems designs), the selection of teams, introduction to design process, team management, communication, and engineering ethics, literature and patents survey, initiation of design activities and familiarization with design tools (for example software).

**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**

Signature: 5-3-08

**West Lafayette Department Head**

Date

**West Lafayette College/School Dean**

Date

**West Lafayette Registrar**

Date

**OFFICE OF THE REGISTRAR**
To: Faculty of the College of Engineering

From: Faculty of the School of Nuclear Engineering

RE: NUCL 449 Description & Requisites

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

From:

NUCL 449 Senior Design Proposal
Sem 1, Class 1, cr. 1
Prerequisites: NUCL 310, NUCL 402

This course consists of the preparation of a proposal for the senior design project (NUCL 450). The tasks include the selection of teams, background literature and patent surveys, identification and familiarization with computational tools, writing a short report and making a presentation.

To:

NUCL 449 Senior Design Proposal
Sem 1, Class 1, cr. 1
Prerequisite: NUCL 310,
Co-requisite: NUCL 402

The course outcome is the writing and presentation of a proposal for the senior design project, NUCL 450. The tasks include the selection of project design topics (various nuclear engineering components and systems designs), the selection of teams, introduction to design process, team management, communication, and engineering ethics, literature and patents survey, initiation of design activities and familiarization with design tools (for example software).

Reason: We are changing the description of the courses to better reflect the scope of the course. In addition we have changed NUCL 402 to be the co-requisite as opposed to the pre-requisite as students take them during the same semester.

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
To: Faculty of the College of Engineering

From: Faculty of the School of Nuclear Engineering

RE: NUCL 449 Description & Requisites

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

From:

**NUCL 449 Senior Design Proposal**
Sem 1, Class 7, cr. 1
Prerequisites: NUCL 310, NUCL 402

This course consists of the preparation of a proposal for the senior design project (NUCL 450). The tasks include the selection of teams, background literature and patent surveys, identification and familiarization with computational tools, writing a short report and making a presentation.

To:

**NUCL 449 Senior Design Proposal**
Sem 1, Class 7, cr. 1
Prerequisite: NUCL 310,
Co-requisite: NUCL 402

The course outcome is the writing and presentation of a proposal for the senior design project, NUCL450. The tasks include the selection of project design topics (various nuclear engineering components and systems designs), the selection of teams, introduction to design process, team management, communication, and engineering ethics, literature and patents survey, initiation of design activities and familiarization with design tools (for example software).

**Reason:** We are changing the description of the courses to better reflect the scope of the courses. In addition we have changed NUCL 402 to be the co-requisite as opposed to the pre-requisite as students take them during the same semester.

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