PURDUE UNIVERSITY
REQUEST FOR ADDITION, DELETION, OR REVISION OF A COURSE

GRADUATE COUNCIL DOCUMENT NO. 05-37

DEPARTMENT: Nuclear Engineering
DATE SUBMITTED: 2/23/05
DATE EFFECTIVE: Fall 06

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

PURPOSE
1. Deletion of a course
2. New course with supporting documents
3. Add existing course offered at another campus
4. Change in course number at same level
5. Downgrading of course level
6. Upgrading of course level
7. Change in course title
8. Change in semesters offered
9. Change in course credit/grade
10. Change in course attributes
11. Change in instructional hours
12. Change in prerequisites
13. Change in description of course content
14. Transfer of course from one dept. to another

EXISTING:

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>Course Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUCL</td>
<td>553</td>
</tr>
</tbody>
</table>

PROPOSED:

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>Course Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUCL</td>
<td>553</td>
</tr>
</tbody>
</table>

PROPOSED TITLE: Nano-Macro Scale Applications of Nuclear Technology

ABBREVIATED TITLE: Nano-Macro Scale App

SEMESTERS OFFERED:
- Summer
- Fall
- Ag Winter
- Spring

CROSS LISTED COURSES

<table>
<thead>
<tr>
<th>CREDIT TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Fixed Credit: Cr. Hrs. 3</td>
</tr>
<tr>
<td>2. Variable Credit Range: Minimum Cr. Hrs. (Check One) To Maximum Cr. Hrs.</td>
</tr>
<tr>
<td>3. Equivalent Credit: Yes</td>
</tr>
<tr>
<td>4. Thesis Credit: Yes</td>
</tr>
</tbody>
</table>

COURSE ATTRIBUTES: Check All That Apply.
1. Pass/Not Pass Only
2. Repeatable for Credit
3. Available for Credit by Examination
4. Designator Required
5. Special Fees
6. Approval Required for Enrollment

INSTRUCTIONAL TYPE

<table>
<thead>
<tr>
<th>Instructional Type</th>
<th>Instructional Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>Auto-tutorial</td>
</tr>
<tr>
<td>Secondary</td>
<td>Ind. Study</td>
</tr>
<tr>
<td>Laboratory</td>
<td>Clinic</td>
</tr>
<tr>
<td>Lab. Prep.</td>
<td>Experiential</td>
</tr>
</tbody>
</table>

CAMPUS(ES) INVOLVED
- Calumet
- Fort Wayne
- Indianapolis
- North Central
- West Lafayette
- Off Campus

COURSE DESCRIPTION (PREREQUISITES INCLUDED):

Sem.1, Class 3, cr. 3
Prerequisite: Senior/Graduate student standing in science, engineering, or technology, or consent of instructor.

Introduction of the principles of nuclear science and engineering for addressing industrial and scientific issues ranging from sub nano-to-macro scales. Areas to be covered include propulsion, high-energy density materials, supercooling, medical applications, sonoluminescence, novel detection systems for special nuclear and contraband materials, and advanced nuclear fusion power systems.

Calumet Undergrad Curriculum Committee Date
Calumet Department Head Date
Calumet School Dean Date

Fort Wayne Department Head Date
Fort Wayne School Dean Date
Fort Wayne Chancellor Date

Indianapolis Department Head Date
Indianapolis School Dean Date

North Central Department Head Date
North Central Vice Chancellor Date

West Lafayette Department Head Date
West Lafayette School Dean Date
West Lafayette Registrar Date

Graduate Area Committee Convener Date
Graduate Dean Date

OFFICE OF THE REGISTRAR