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

Department: Agricultural & Biological Engineering
Date Submitted: 5/9/01
Date Effective: Summer '01

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 type
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:

Subject Abbreviation: ABE
Course Number: 320
Proposed Title: Solid Modeling, Dynamic Simulation, and Analysis
Abbreviated Title: Sld Mod Dyn Sim Analys
Variable Title: Yes

PROPOSED:

Subject Abbreviation: ABE
Course Number: 320
Proposed Title: Solid Modeling, Dynamic Simulation, and Analysis
Abbreviated Title: Sld Mod Dyn Sim Analys
Variable Title: Yes

SEMMESTERS OFFERED

Check All That Apply.
Summer  Yes  Fall  No  Winter  No  Spring  No

CROSS LISTED COURSES

<table>
<thead>
<tr>
<th>CREDIT TYPE</th>
<th>COURSE ATTRIBUTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Fixed Credit: Cr. Hrs. 3</td>
<td></td>
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<tr>
<td>2. Variable Credit Range: Minimum Cr. Hrs</td>
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<tr>
<td>3. Equivalent Credit: Yes No</td>
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<td>4. Thesis Credit: Yes No</td>
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</tbody>
</table>

INSTRUCTIONAL CLASS FTE

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Auto-tutorial</td>
<td></td>
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<tr>
<td>Secondary Ind. Study</td>
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<tr>
<td>Laboratory Clinic</td>
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<tr>
<td>Lab. Prep. Experiential</td>
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<tr>
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<tbody>
<tr>
<td>Thesis</td>
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<tr>
<td>Observation</td>
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<tr>
<td>Math Based</td>
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CAMPUS(ES) INVOLVED

Calumet
Fort Wayne
Indianapolis
North Central
West Lafayette
Off Campus

COURSE DESCRIPTION (PREREQUISITES INCLUDED):

Sem. 1. Class 1. lab. 4. cr. 3. Prerequisite: CE 273 and MA 262. Corequisite: ME 274.
Introduction to parametric, feature-based solid modeling; dimensioned 2D and 3D engineering drawings; tolerancing; mechanical dynamic simulation; kinematic models, analysis and simulation of simple linkages and complex systems; mechanism design and evaluation; visualization and animation of results; interfacing of computer aided engineering software. Projects involving industrial parts and assemblies will be discussed and assigned.

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 Chairperson Appr. for Faculty C.D. Sutton, Chair 2/14/01

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

North Central Department Head Date
North Central Vice-Chancellor Date

West Lafayette Department Head Date
West Lafayette School Dean Date
Graduate Council Secretary Date

Graduate Area Committee Convener Date
Graduate Dean Date
West Lafayette Registrar Date

OFFICE OF THE REGISTRAR