PURDUE UNIVERSITY

REQUEST FOR ADDITION, EXPIRATION
OR REVISION OF AN UNDERGRADUATE COURSE
(10000-40000 LEVEL)

DEPARTMENT: School of Engineering Education
EFFECTIVE SESSION: Fall 2015

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:

Subject Abbreviation: IDE
Course Number: 48700
Long Title: Multidisciplinary Engineering Senior Professional Development

EXISTING:

Subject Abbreviation: IDE
Course Number: 48700
Long Title: Multidisciplinary Engineering Senior Professional Development

TERMS OFFERED:
Check All That Apply:
☐ Fall ☑ Spring ☐ Summer

CAMPUS(ES) INVOLVED:

Columnet: N. Central
Cont Ed: Tech Statewide
Ft. Wayne: 
Indianapolis: X W. Lafayette

Abbreviated title will be entered by the Office of the Registrar if omitted. (20 CHARACTERS ONLY)

CREDIT TYPE:

1. Fixed Credit: Cr. Hrs: 1
2. Variable Credit Range: Minimum Cr. Hrs: (Check One) To Or
Maximum Cr. Hrs: 
3. Equivalent Credit: Yes ☑ No ☐

COURSE ATTRIBUTES:
Check All That Apply:

6. Registration Approval Type:
   ☑ Instructor ☐ Department
7. Variable Title:
8. Honors:
9. Full Time Privilege:
10. Off Campus Experience:

Schedule Type:
Lecture: Minutes Per Mtg: 50
Recitation:
Presentation:
Laboratory:
Lab Prep:
Studio:
Distance:
Clinic:
Experiential:
Research:
Ind. Study:
Pract/Observ:

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Pre- or Co-requisite: IDE 30100 and IDE 40200 or THR 26700 and approved major design experience course for Multidisciplinary Engineering. Permission of instructor.

Senior professional development covers and assesses students in Multidisciplinary Engineering professional outcomes including, teamwork, professional and ethical responsibility, communication, impact of engineering in context, lifelong learning, impact of contemporary issues, and leadership. Methods to obtain a professional position after graduation.

*COURSE LEARNING OUTCOMES:

Function on Multidisciplinary Teams; Professional and ethical responsibility; Communication; Impact engineering in global, economic, environmental & societal context;
How one learns and lifelong learning; Contemporary issues; Principles, applications and importance of Leadership

Calumet Department Head Date 
Calumet School Dean Date 

Ft. Wayne Department Head Date 
Ft. Wayne School Dean Date 

Indianapolis Department Head Date 
Indianapolis School Dean Date 

North Central Faculty Senate Chair Date 

West Lafayette Department Head Date 
West Lafayette College/School Dean Date 

W. Lafayette Registrar Date 

OFFICE OF THE REGISTRAR 

FEB 1 7 2015
TO: The Faculty of the College of Engineering
FROM: The Faculty of the School of Engineering Education
RE: Changes in Undergraduate Course IDE 48700 Multidisciplinary Engineering Senior Professional Design Seminar.

The Faculty of the School of Engineering Education has approved the changes in the course listed below. This action is now submitted to the Engineering Faculty with a recommendation for approval.

FROM: IDE 48700 Multidisciplinary Engineering Senior Professional Design Seminar
Sem. 2, Lecture 1, Credit 1
Pre- or Co-requisite: IDE 30100 and ECE 40020 or THTR 59700 and approved major design experience course for Multidisciplinary Engineering. Permission of instructor.

Senior professional design seminar covers and assesses students in Multidisciplinary Engineering professional outcomes including, teamwork, professional and ethical responsibility, communication, impact of engineering in context, lifelong learning, impact of contemporary issues, and leadership. Presentation of student’s designs. Methods to obtain a professional position after graduation.

TO: IDE 48700 Multidisciplinary Engineering Senior Professional Development
Sem. 1, Lecture 1, Credit 1
Pre- or Co-requisite: IDE 30100. Permission of instructor.

Senior professional development covers and assesses students in Multidisciplinary Engineering professional outcomes including, teamwork, professional and ethical responsibility, communication, impact of engineering in context, lifelong learning, impact of contemporary issues, and leadership. Methods to obtain a professional position after graduation.

REASON: The course is switched from spring to fall semester so students will be exposed to the topics including career/job search in the fall semester when the content can be immediately applied. The removal of the presentation of student’s designs aligns with removal of the major design experience course co-requisite, and decoupling with the major design experience course (IDE48500). This change will make IDE 48700 a required course for all MDE students, since it becomes the Senior Professional Development course for all MDE students irrespective of their major design experience course choice (i.e. IDE48500 or EPCS 41100 & 41200, or THTR 59700 or other ENE approved major design experience course.)

[Signature]
David F. Radcliffe
Kamyar Haghighi Head, School of Engineering Education
Epistemology Professor of Engineering Education

Approved for the faculty of the Schools of Engineering by the Engineering Curriculum Committee
ECC Minutes 15 Date 2-9-15
Chairman ECC Cite
IDE 48700 Multidisciplinary Engineering Senior Professional Development

Course Description:
Senior professional design seminar covers and assesses students in Multidisciplinary Engineering professional outcomes including, teamwork, professional and ethical responsibility, communication, impact of engineering in context, lifelong learning, impact of contemporary issues, and leadership. Methods to obtain a professional position after graduation.

The following ABET/Multidisciplinary Engineering outcomes are assessed in IDE 48700:

<table>
<thead>
<tr>
<th>ABET</th>
<th>MDE</th>
<th>Program Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3d</td>
<td>4</td>
<td>Function on Multidisciplinary Teams</td>
</tr>
<tr>
<td>3f</td>
<td>6</td>
<td>Professional and ethical responsibility</td>
</tr>
<tr>
<td>3g</td>
<td>7</td>
<td>Communication</td>
</tr>
<tr>
<td>3h</td>
<td>8</td>
<td>Impact engineering in global, economic, environmental &amp; societal context</td>
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<tr>
<td>3i</td>
<td>9</td>
<td>How one learns and lifelong learning</td>
</tr>
<tr>
<td>3j</td>
<td>10</td>
<td>Contemporary issues</td>
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<tr>
<td></td>
<td>12</td>
<td>Principles, applications and importance of Leadership</td>
</tr>
</tbody>
</table>

Proposed Course Schedule:

<table>
<thead>
<tr>
<th>Job Search &amp; Career Development</th>
<th>CCO &amp; career planning; Resume writing, job search, and interviewing; What Happens After the Job Offer?; Life as an IDES/MDE - Preparing to be the Only (Class 1-3)</th>
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<tbody>
<tr>
<td>Lifelong Learning</td>
<td>What happens after graduation: work or grad school? Development of Lifelong learning plans (Class 4-6)</td>
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<tr>
<td>Leadership &amp; Contemporary Issues</td>
<td>Defining and demonstrating your Leadership style; Leadership and Ethics in the workplace; Contemporary issues case studies – Failure of Engr systems &amp; Technology, or Leadership? (Class 7-9)</td>
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<tr>
<td>Ethics/ Impact engineering (global, economic, environmental &amp; societal context)</td>
<td>Ethics in Engineering Practice; Interaction of Ethics, Globalization, Society &amp; Contemporary Issues - Team Debate; Global Engineering Practice -- Are you prepared? (Class 10-12)</td>
</tr>
<tr>
<td>Career Development &amp; Community</td>
<td>Leveraging Social Media to find Community; My IDE/MDE Value Prop – oral presentations; Department “exit” interview** with Prof. Pilote (Class 13-15)</td>
</tr>
</tbody>
</table>

Total 15 class sessions

Required and Supplementary Text: None. Use class hand-outs and University/online resources.

Grading: Attendance 20%; Written assignments 30%; Oral Reports 40%; In-class Activities & Participation 10%.