

EFD 23-15

Office of the Registrar  
FORM 40 REV. 5/11

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

Print Form

IDE 48700

DEPARTMENT School of Engineering Education

EFFECTIVE SESSION Fall 2015

201610

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 Short Title MDE Senior Development

EXISTING: Subject Abbreviation IDE Course Number 48700

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

TERMS OFFERED  
Check All That Apply:  
 Fall  Spring  Summer

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

CREDIT TYPE

1. Fixed Credit: Cr. Hrs

2. Variable Credit Range:  
Minimum Cr. Hrs  To  Or   
Maximum Cr. Hrs

3. Equivalent Credit: Yes  No

COURSE ATTRIBUTES: Check All That Apply

1. Pass/Not Pass Only

2. Satisfactory/Unsatisfactory Only

3. Repeatable   
Maximum Repeatable Credit:

4. Credit by Examination

5. Fees:  Coop  Lab  Rate Request  
Include comment to explain fee

6. Registration Approval Type  
Department  Instructor

7. Variable Title

8. Honors

9. Full Time Privilege

10. Off Campus Experience

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture	50	1	16	
Recitation				
Presentation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

Cross-Listed Courses

RECEIVED

FEB 17 2015

OFFICE OF THE REGISTRAR

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):  
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 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 _____
Fort Wayne Department Head _____ Date _____	Fort Wayne School Dean _____ Date _____
Indianapolis Department Head _____ Date _____	Indianapolis School Dean _____ Date _____
North Central Faculty Senate Chair _____ Date _____	Vice Chancellor for Academic Affairs _____ Date _____
West Lafayette Department Head _____ Date _____	West Lafayette College/School Dean _____ Date _____
	West Lafayette Registrar _____ Date _____

*Michael P. Hair 2/12/15* *Course Dates 4/29/15*

OFFICE OF THE REGISTRAR

*syma*

*Uja 3/09/15*

**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.

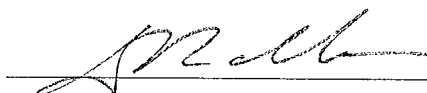
**TO: IDE 48700 Multidisciplinary Engineering Senior Professional Development**

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.)



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 10 Date 2-9-15  
 Chairman ECC [Signature]

## 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:

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

### Proposed Course Schedule:

Job Search & Career Development	CCO & 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)
Lifelong Learning	What happens after graduation: work or grad school? Development of Lifelong learning plans (Class 4-6)
Leadership & Contemporary Issues	Defining and demonstrating your Leadership style; Leadership and Ethics in the workplace; Contemporary issues case studies – Failure of Engr systems & Technology, or Leadership? (Class 7-9)
Ethics/ Impact engineering (global, economic, environmental & societal context)	Ethics in Engineering Practice; Interaction of Ethics, Globalization, Society & Contemporary Issues - Team Debate; Global Engineering Practice – Are you prepared? (Class 10-12)
Career Development & Community	Leveraging Social Media to find Community; My IDE/MDE Value Prop – oral presentations; Department “exit” interview** with Prof. Pilotte (Class 13-15)

**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%.