

TO: The Faculty of the College of Engineering  
FROM: The Faculty of the School of Engineering Education  
RE: IDE48300 - Removal of "permission of department required"


The faculty of the School of Engineering Education approved the removal of "~~permission of department required~~" and replace with "Must be a Multidisciplinary Engineering major or Interdisciplinary Engineering Studies major". This action is now submitted to the Engineering Faculty with a recommendation for approval.

**IDE 48300 – Multidisciplinary Engineering Analysis & Decision Making**

Sem. 1. Cr. 1.

Application of product evaluation, cost estimating, and product/project feasibility and viability analysis from multidisciplinary perspectives in the context of new product development. Topics include exposure to company success measures, quantitative and qualitative analysis, sensitivity analysis, cost-benefit analysis, project comparisons, new product life-cycle analysis, and related engineering decisions. Topics are explored through case-based, industrially focused examples. The course centers on the creation and use of analytical spreadsheets with computer tools/software for routine engineering analysis and decision making. ~~Permission of instructor required.~~ "Must be a Multidisciplinary Engineering major or Interdisciplinary Engineering Studies major".

REASON: This is correction of a clerical error in completion of form 40 when course was initially created.


  
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Donna Riley  
Professor and Head  
School of Engineering Education

# IDE - 48300 - Multidisciplinary Engineering Analysis & Decision Making

z 2017-2018 Course Revisions Undergraduate

## General Course Information

### \*\*Read Before You Begin to Import the Course to Change\*\*

Click on the Import Icon   
Select "Filter by Field"  
Choose "Prefix"  
Use an asterisk (\*) for a wildcard search, i.e. COM\*  
Select the course you would like to import  
**Once you import, DO NOT make changes to the existing information yet.**  
**Go to the top of the proposal to click the area to validate and launch.**

**Originating Campus\***

- West Lafayette
- Northwest
- Fort Wayne
- IUPUI

**Campus**

Purdue West Lafayette

**Non-Originating Campus(es):  
(Select the correct combination of additional campuses offering this course)\***

- None
- West Lafayette
- Northwest
- Fort Wayne
- IUPUI
- Northwest & Fort Wayne
- Northwest & IUPUI
- West Lafayette & Northwest
- West Lafayette & Fort Wayne
- West Lafayette & IUPUI
- Fort Wayne & IUPUI

- Northwest, Fort Wayne, & IUPUI
- West Lafayette, Fort Wayne, & IUPUI
- West Lafayette, Northwest, & IUPUI
- West Lafayette, Fort Wayne, & Northwest

**College/ School**

College of Engineering - WL

**Department\***

-School of Engineering Education - WL

**Crosslisted  
Course/  
Equivalent  
Course**

Indicate all revisions to the course by checking the appropriate box(s) below. Since the proposal has been launched, all changes can now be tracked and viewed in the proposal.

Make changes to the information in the same fields that have the existing or blank information.

You may add additional information for clarity in the "Additional Course Information" field.

**Changes  
requested**

- Course Attributes
- Course Description
- Course Fees
- Course Number
- Course Title
- Credit Hours
- Crosslisted Course/Equivalent Course
- Full Time Privilege
- Grade Mode
- Learning Outcomes
- Offer Existing Course at Another Campus
- Pass/Not Pass only
- Prerequisite
- Repeatable
- Restrictions
- Satisfactory/Unsatisfactory Only
- Schedule Type
- Terms offered
- Transfer from One Department to Another

Proposed  
Effective Term

Fall 2018

### Make changes in the fields below

**Course Numbers:** All course numbers may only be used once for a course in order to allow our repeat course audit to work properly. Before submitting a form for a new course or renumber, please make sure the course number is available. Please remember Purdue now uses 5-digit course numbers to allow more options for the departments. This may be verified through the following:

Legacy Course Catalog: <https://www.purdue.edu/registrar/legacy/catalog.cfm>

Banner Course Catalog: <https://selfservice.mypurdue.purdue.edu>

Subject Code\*

IDE

Course Number\* 48300

Long Title\* Multidisciplinary Engineering Analysis & Decision Making

Short Title (max 30 characters) MDE Engr Analysis/Decision

**Multiple Campuses: There is only one version of a course in the catalog!** Forms requesting title, credit, schedule type, description, renumber or attribute modifications for courses offered at multiple campuses, **must** be agreed upon by all involved, otherwise the request will be denied and no change will be made. If agreed, the modification will be made and will affect all campuses, not just the campus requesting the change. Standard turnaround time for all approvals/denials is 30 days.

Terms Offered  
(Check all that apply)

Fall  
 Spring  
 Summer

### Credit Hours

Credit Hours 1.00

Course Repeat Status

Course may be repeated  
 Course may not be repeated

If repeatable, is this:

Unlimited  Maximum Repeatable Credit

Maximum Credit Amount

- Grade Mode**  
(Select all that apply)
- Regular Grade
  - Pass/No Pass Option
  - Audit
  - Satisfactory/Unsatisfactory

**Course Fees:** The following fees are provided on the form: Coop, Lab, and Rate Request. In order to ensure the accurate fee is assessed on a course, the Bursar's Office would like to have an explanation included with the form along with the business manager's contact information if additional information is needed.

- Additional Fees**
- Yes
  - No

- Attributes**  
(Select all that apply)
- Variable Title
  - Honors
  - Full-Time Privileges
  - Half-Time Privileges
  - Internship
  - Coop
  - Parallel Coop
  - Credit By Exam

**Schedule Type/Credit Hour:** The following links will provide explanations of the schedule types and credit hours to assist in assigning accurate types to a course.

[Schedule Type Classifications](#)

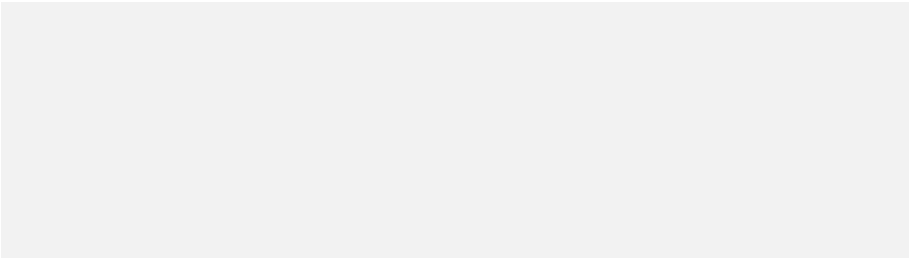
[Credit Hour Guidelines](#)

**Use the following instructions to add schedule type or show changes for the course in the text box. Examples are listed below.**

Schedule Type  
Minutes per Meeting  
Number of Meeting per week  
Weeks per term

Examples: (3 credit course) LEC/50min per mtg/3 mtgs per wk/16 wks per term OR (3 credit course with Lecture and Lab) LEC/50/2/16 and LAB/100/1/16

**Proposed  
Schedule Type  
Changes**



**Restrictions/Prerequisites:** If restrictions are being requested, please provide the proper Banner codes (major, program etc.) to ensure all are accurately reflected on the course. All codes may be found on our website under [Advisors/Active PWL Major Programs](#), and [Active PWL Minors](#) links:

Restriction Types: major, program or school codes; never use more than one  
Use the words "and" or "or" when filling out form instead of commas  
Co-requisite courses are always required to be taken at the same time  
Concurrent prerequisite courses may be taken during the same semester or in a previous term  
600-level prerequisites are not enforced, they are added to description as informational text

If there is an equivalent course the department would like listed with the prerequisites, that specific course will need to be specified on the form in order to have it enforced through the system.

<b>Explain changes to restrictions:</b>	Removal of "permission of department required" and replace with "Must be a Multidisciplinary Engineering major or Interdisciplinary Engineering Studies major".
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<b>Explain changes to requisite information:</b>	Remove "Permission of instructor required". Pre-req MA 16600 or MA 16200. "Must be a Multidisciplinary Engineering major or Interdisciplinary Engineering Studies major".
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**Course Description**

Credit Hours: 1.00. Application of product evaluation, cost estimating, and product/project feasibility and viability analysis from multidisciplinary perspectives in the context of new product development. Topics include exposure to company success measures, quantitative and qualitative analysis, sensitivity analysis, cost-benefit analysis, project comparisons, new product life-cycle analysis, and related engineering decisions. Topics are explored through case-based, industrially focused examples. The course centers on the creation and use of analytical spreadsheets with computer tools/software for routine engineering analysis and decision making. Permission of department required. Typically offered Fall.

**Learning Outcomes**  
(Please only provide learning outcomes if changes are being made or if they were not previously provided.)

**Additional Course Information** (if needed)

**Syllabus** - Attach using the directions below:

Navigate to the Proposal Toolbox at the top of the right side.

Select the "Add Files" button 

Upload file to be attached.

**Impact Report**

**To see how this course impacts other departments, please run the Impact Report.**

An Impact Report may be run to determine what academic programs the course being revised are housed within. This will help determine the impact of your requested revision. Based on the results, we encourage you to contact any affected departments.

**Impact Report Instructions:**

Save changes 

Navigate to the top of the proposal to run the Impact Report.

This will assist you in answering the questions.

<b>Is this course required on a Plan of Study?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
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<b>Is this course a prerequisite?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
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<b>Is this course an equivalent for a course on a Plan of Study?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
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If this course is included on a Plan of Study, the proposed effective session is subject to change.

If Yes to any of the above, please contact affected departments.

<b>Justification for Revision</b>	
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Click on the arrow  at the top of the page to launch the proposal. *(Only launch the proposal after you completely finished.)*



**Catalog  
Ownership**

**Course Type**