TO: The Faculty of the College of Engineering

FROM: The Faculty of the School of Industrial Engineering

RE: Change to IE 53700 prerequisite and term offered

From: IE 53700 – Discrete Optimization Models and Algorithms
Term Offered: Fall; Lecture 3, Cr. 3

Prerequisites: Graduate Standing or Junior/Senior standing and CS 15600 and IE 33500 or IE 50100
Description: An introduction to classic models and algorithms for discrete optimization. Basic theory
and computational strategies for exact and heuristic solution of integer, combinatorial,
and network problems in the context of classic models. Typically offered Fall.

To: IE 53700 – Discrete Optimization Models and Algorithms
Term Offered: Spring; Lecture 3, Cr. 3

Prerequisites: Graduate Standing or Junior/Senior standing and CS 15900 and IE 33500 or IE 50100
Description: An introduction to classic models and algorithms for discrete optimization. Basic theory
and computational strategies for exact and heuristic solution of integer, combinatorial,
and network problems in the context of classic models. Typically offered Spring.

Reasons: The current prerequisites for IE 53700 do not reflect the changes in the Computer Science
course numbering. In addition, the course has most recently been offered during the spring semester and
will continue to do so for the foreseeable future.

Abhijit Deshmukh
Professor and Head
School of Industrial Engineering

[Signature]

[Date] 11/14/13

ECC Minutes

Date 2/4/14

[Signature]

[Date] 2/4/14

[Signature]
### PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF A GRADUATE COURSE
(50000-60000 LEVEL)

**DEPARTMENT**: Industrial Engineering  
**EFFECTIVE SESSION**: Summer 2014  
**INSTRUCTIONS**: Please check the items below which describe the purpose of this request.

<table>
<thead>
<tr>
<th>PROPOSED</th>
<th>EXISTING</th>
<th>TERMS OFFERED</th>
<th>CAMPUS(ES) INVOLVED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. New course with supporting documents (complete proposal form)</td>
<td></td>
<td>Fall</td>
<td>Calumet</td>
</tr>
<tr>
<td>2. Add existing course offered at another campus</td>
<td>Subject Abbreviation: IE</td>
<td>Spring</td>
<td>Cont Ed</td>
</tr>
<tr>
<td>3. Expiration of a course</td>
<td>Course Number</td>
<td>Summer</td>
<td>Ft. Wayne</td>
</tr>
<tr>
<td>4. Change in course number</td>
<td>53700</td>
<td></td>
<td>Tech/Statewide</td>
</tr>
<tr>
<td>5. Change in course title</td>
<td></td>
<td></td>
<td>W. Lafayette</td>
</tr>
<tr>
<td>6. Change in course credit type</td>
<td></td>
<td></td>
<td>Indianapolis</td>
</tr>
</tbody>
</table>

**PROPOSED**: Discrete Optimization Models And Algorithms

**Subject Abbreviation**: IE

**Course Number**: 53700

**Long Title**: Discrete Optimization Models And Algorithms

**Short Title**: Disc Opt Mtls & Algoms

**CREDIT TYPE**

1. Fixed Credit: 3
2. Variable Credit Range: [ ]
   Minimum Cr. Hrs: [ ]
   (Check One) To [ ] Or [ ]
   Maximum Cr. Hrs: [ ]
3. Equivalent Credit: Yes [ ] No [ ]
4. Thesis Credit: Yes [ ] No [ ]

**COURSE ATTRIBUTES**

1. Pass/Not Pass Only [ ]
2. Satisfactory/Unsatisfactory Only [ ]
3. Repeatable [ ]
4. Maximum Repeatable Credit: [ ]
5. Credit by Examination [ ]
6. Registration Approval Type [ ]
7. Variable Title [ ]
8. Honors [ ]
9. Full Time Privilege [ ]
10. Off Campus Experience [ ]

**SCHEDULE**

- **Lecture**: 50/3/15/100
- **Recitation**: 
- **Presentation**: 
- **Laboratory**: 
- **Lab Prep**: 
- **Studio**: 
- **Distance**: 
- **Clinic**: 
- **Experiential**: 
- **Research**: 
- **Ind. Study**: 
- **Pract/Observ**: 

**RECEIVED**

FEBRUARY 25, 2014

OFFICE OF THE REGISTRAR

**COURSE DESCRIPTION** (INCLUDE REQUIREMENTS/RESTRICTIONS):

An introduction to classic models and algorithms for discrete optimization. Basic theory and computational strategies for exact and heuristic solution of integer, combinational, and network problems in the context of classic models.

Restrictions: Graduate OR Junior OR Senior classification
Prerequisites: Graduate OR (CS 15900 (minimum grade of D-) AND IE 33500 (minimum grade of D-)) OR (CS 15900 (minimum grade of D-) AND IE 50100 (minimum grade of D-))

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**Calumet Department Head** Date  
**Calumet School Dean** Date  
**Calumet Director of Graduate Studies** Date

**Fort Wayne Department Head** Date  
**Fort Wayne School Dean** Date  
**Fort Wayne Director of Graduate Studies** Date

**Indianapolis Department Head** Date  
**Indianapolis School Dean** Date  
**IUPUI Associate Dean for Graduate Education** Date

**North Central Department Head** Date  
**North Central School Dean** Date  
**North Central Director of Graduate Studies** Date

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

**Graduate Area Committee Convenor** Date  
**Graduate Dean** Date  
**Graduate Council Secretary** Date

**Date Approved by Graduate Council** Date

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**OFFICE OF THE REGISTRAR**

**Lam, Abdul**