

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
11/14/13

Abhijit Deshmukh
Professor and Head
School of Industrial Engineering

APPROVED BY THE FACULTY
OF THE SCHOOL OF ENGINEERING
BY THE CHAIRMAN
CURRICULUM COMMITTEE

ECC Minutes 2/4/14

Date 2/4/14

Chairman ECC *J. M. L. B.*

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

IE 53700

EFD 16-14

DEPARTMENT Industrial Engineering EFFECTIVE SESSION Summer 2014 201430

INSTRUCTIONS: Please check the items below which describe the purpose of this request.

- | | |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <input type="checkbox"/> 1. New course with supporting documents (complete proposal form) | <input type="checkbox"/> 7. Change in course attributes |
| <input type="checkbox"/> 2. Add existing course offered at another campus | <input type="checkbox"/> 8. Change in instructional hours |
| <input type="checkbox"/> 3. Expiration of a course | <input type="checkbox"/> 9. Change in course description |
| <input type="checkbox"/> 4. Change in course number | <input checked="" type="checkbox"/> 10. Change in course requisites |
| <input type="checkbox"/> 5. Change in course title | <input checked="" type="checkbox"/> 11. Change in semesters offered |
| <input type="checkbox"/> 6. Change in course credit/type | <input type="checkbox"/> 12. Transfer from one department to another |

PROPOSED: Subject Abbreviation <input type="text"/> Course Number <input type="text"/> Long Title <u>Discrete Optimization Models And Algorithms</u> Short Title <u>Disc Opt Mdls & Algrms</u>	EXISTING: Subject Abbreviation <u>IE</u> Course Number <u>53700</u>	TERMS OFFERED Check All That Apply: <input type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/> Summer CAMPUS(ES) INVOLVED <input type="checkbox"/> Calumet <input type="checkbox"/> N. Central <input type="checkbox"/> Cont Ed <input type="checkbox"/> Tech Statewide <input type="checkbox"/> Ft. Wayne <input checked="" type="checkbox"/> W. Lafayette <input type="checkbox"/> Indianapolis
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CREDIT TYPE 1. Fixed Credit: Cr. Hrs. <u>3</u> 2. Variable Credit Range: Minimum Cr. Hrs. <input type="text"/> (Check One) To <input type="checkbox"/> Or <input type="checkbox"/> Maximum Cr. Hrs. <input type="text"/> 3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/> 4. Thesis Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>	COURSE ATTRIBUTES: Check All That Apply 1. Pass/Not Pass Only <input type="checkbox"/> 2. Satisfactory/Unsatisfactory Only <input type="checkbox"/> 3. Repeatable <input type="checkbox"/> Maximum Repeatable Credit: <input type="text"/> 4. Credit by Examination <input type="checkbox"/> 5. Fees <input type="checkbox"/> Coop <input type="checkbox"/> Lab <input type="checkbox"/> Rate Request <input type="checkbox"/> Include comment to explain fee 6. Registration Approval Type <input type="checkbox"/> Department <input type="checkbox"/> Instructor <input type="checkbox"/> 7. Variable Title <input type="checkbox"/> 8. Honors <input type="checkbox"/> 9. Full Time Privilege <input type="checkbox"/> 10. Off Campus Experience <input type="checkbox"/>
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Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated	Cross-Listed Courses
Lecture	50	3	15	100	
Recitation					
Presentation					
Laboratory					
Lab Prep					
Studio					
Distance					
Clinic					
Experiential					
Research					
Ind. Study					
Pract/Observ					

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FEB 25 2014
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COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):
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.

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-))

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 _____
<u>Abli Deshmukh</u> 11/14/13 West Lafayette Department Head _____ Date _____	<u>Michael J. Amin</u> 2/10/14 West Lafayette College/School Dean _____ Date _____	Date Approved by Graduate Council _____ Date _____
Graduate Area Committee Convener _____ Date _____	<u>Phillip E. Pope</u> 2/12/14 Graduate Dean _____ Date _____	<u>Lina L. Pope</u> 2/21/14 Graduate Council Secretary _____ Date _____
		<u>Sandra Schaffer</u> 3/3/14 West Lafayette Registrar _____ Date _____

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