TO: The Faculty of the College of Engineering

FROM: The Faculty of the School of Industrial Engineering

RE: Change to IE 53800 prerequisite and term offered

From: IE 53800 – Nonlinear Optimization Algorithms and Models
Term Offered: Fall; Lecture 3, Cr. 3

Prerequisites: Graduate Standing or Junior/Senior standing and CS 15600 and IE 33500 or IE 50100 or IE 53500
Description: Survey of computational tools for solving constrained and unconstrained nonlinear optimization problems. Emphasis on algorithmic strategies and characteristic structures of nonlinear problems. Typically offered Fall.

To: IE 53800 – Nonlinear Optimization Algorithms and Models
Term Offered: Spring; Lecture 3, Cr. 3

Prerequisites: Graduate Standing or Junior/Senior standing and CS 15900 and IE 33500 or IE 50100 or IE 53500
Description: Survey of computational tools for solving constrained and unconstrained nonlinear optimization problems. Emphasis on algorithmic strategies and characteristic structures of nonlinear problems. Typically offered Spring.

Reason: The current prerequisites for IE 53800 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

11/12/2013
### 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.

- New course with supporting documents (complete proposal form)
- Add existing course offered at another campus
- Expiration of a course
- Change in course attributes
- Change in instructional hours
- Change in course description
- Change in course requisites
- Change in semesters offered
- Transfer from one department to another

#### PROPOSED:

- Subject Abbreviation: ____________
- Course Number: ____________
- Long Title: Nonlinear Optimization Algorithms And Models
- Short Title: Nonlinear Optimization Algorithms And Models

#### EXISTING:

- Subject Abbreviation: IE
- Course Number: 53800
- Long Title: Nonlinear Optimization Algorithms And Models

#### TERMS OFFERED:

- Term: [ ] Fall [ ] Spring [ ] Summer

#### CAMPUS(ES) INVOLVED:

- [ ] Calumet
- [ ] Ft. Wayne
- [ ] Indianapolis
- [ ] Tech-S
erwade
- [ ] W. Lafayette

#### CREDIT TYPE

<table>
<thead>
<tr>
<th>Type</th>
<th>Minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>55</td>
</tr>
<tr>
<td>Recitation</td>
<td></td>
</tr>
<tr>
<td>Presentation</td>
<td></td>
</tr>
<tr>
<td>Laboratory</td>
<td></td>
</tr>
<tr>
<td>Lab Prep</td>
<td></td>
</tr>
<tr>
<td>Studio</td>
<td></td>
</tr>
<tr>
<td>Distance</td>
<td></td>
</tr>
<tr>
<td>Clinic</td>
<td></td>
</tr>
<tr>
<td>Experiential</td>
<td></td>
</tr>
<tr>
<td>Research</td>
<td></td>
</tr>
<tr>
<td>Ind. Study</td>
<td></td>
</tr>
<tr>
<td>Pract/Observ</td>
<td></td>
</tr>
</tbody>
</table>

#### COURSE ATTRIBUTES:

1. Pass/No Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatability
   - Maximum Repeatable Credit: ____________
4. Credit by Examination
5. Fees [ ] Coop [ ] Lab [ ] Rate Request

#### Schedule Type

- [ ] Yes [ ] No [ ]

#### Schedule Type

- [ ] Yes [ ] No [ ]

#### RECEIVE
FEB 25 2014
OFFICE OF THE REGISTRAR

---

### COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Survey of computational tools for solving constrained and unconstrained nonlinear optimization problems. Emphasis on algorithmic strategies and characteristic structures of nonlinear problems.

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-)

---

### DEPARTMENT HEADS AND SIGNATURES

- 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 School Dean: ____________ Date ____________
- Graduate Area Committee Convener: ____________ Date ____________
- Graduate Dean: ____________ Date ____________
- Date Approved by Graduate Council: ____________ Date ____________
- Graduate Council Secretary: ____________ Date ____________

OFFICE OF THE REGISTRAR

[Signature]

[Signature]