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

DEPARTMENT: Agricultural and Biological Engineering
EFFECTIVE SESSION: Spring 2013

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

- [ ] New course with supporting documents
- [x] Add existing course offered at another campus
- [ ] Expiration of a course
- [ ] Change in course number
- [ ] Change in course title
- [ ] Change in course credit type
- [ ] Change in course attributes (department head signature only)
- [ ] Change in instructional hours
- [ ] Change in course description
- [ ] Change in course requirements
- [ ] Change in semesters offered (department head signature only)
- [ ] Transfer from one department to another

PROPOSED:

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>Subject Abbreviation</th>
<th>ABE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>Course Number</td>
<td>43000</td>
</tr>
<tr>
<td>Long Title</td>
<td>Instrumentation and Data Acquisition</td>
<td></td>
</tr>
<tr>
<td>Short Title</td>
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</tr>
</tbody>
</table>

Note: Abbreviated title will be entered by the Office of the Registrar if omitted. (Max characters: 120)

CREDIT TYPE

1. Fixed Credit: Cr. Hrs. 3
2. Variable Credit Range: Minimum Cr. Hrs. (Check One) To

<table>
<thead>
<tr>
<th>Cr. Hrs.</th>
<th>Or</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
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</tbody>
</table>

3. Equivalent Credit: Yes [ ] No [ ]

COURSE ATTRIBUTES:

- [ ] Pass/No Pass Only
- [ ] Satisfactory/Unsatisfactory Only
- [ ] Repeatable
- [ ] Maximum Repeatable Credit: 3
- [ ] Credit by Examination

6. Registration Approval Type

- [ ] Department
- [ ] Instructor
- [ ] Full Time Privilege

7. Vandal Title

8. Honors

<table>
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<tr>
<th>4. Credit by Examination</th>
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<tr>
<td>[ ] Include comment to explain fee</td>
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</table>

Schedule Type

<table>
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<tr>
<th>Lecture</th>
<th>Recitation</th>
<th>Presentation</th>
<th>Laboratory</th>
<th>Lab Prep</th>
<th>Studio</th>
<th>Distance</th>
<th>Clinic</th>
<th>Experiential</th>
<th>Research</th>
<th>Inst. Study</th>
<th>Pract/Observ</th>
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</table>

Weeks Offered: 16

% of Credit Allocated: 100%

Terms Offered:

- [x] Fall
- [ ] Spring
- [ ] Summer

Campus (or) Involved:

- [x] Calumet
- [x] N. Central
- [x] Tech Statewide
- [x] W. Lafayette
- [x] Indianapolis

Course Description (Include Requisites/Restrictions):

*Course Learning Outcomes:

Calumet Department Head Date

Fort Wayne Department Head Date

Indianapolis Department Head Date

Received: MAY 23, 2013

Office of the Registrar

OFFICE OF THE REGISTRAR
### PURDUE UNIVERSITY
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- [ ] 1. New course with supporting documents
- [ ] 2. Add existing course offered at another campus
- [x] 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

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Abbreviated title will be entered by the Office of the Registrar if omitted. (20 CHARACTERS ONLY)

### CREDIT TYPE

1. Fixed Credit: Cr. Hrs: 3
2. Variable Credit Range:
   - Minimum Cr. Hrs: (Check One)
   - Maximum Cr. Hrs:  
3. Equivalent Credit: Yes [ ] No [x]

### COURSE ATTRIBUTES: Check All That Apply

1. Pass/Not Pass Only  
2. Satisfactory/Unsatisfactory Only  
3. Repeatable  
4. Credit by Examination  
5. Fees: [ ] Coop [ ] Lab [ ] Rate Request  
Include comment to explain fee

### TERMS OFFERED

- [ ] Fall
- [ ] Spring
- [ ] Summer

CAMPUS(ES) INVOLVED

- Calumet
- Cont Ed
- Ft. Wayne
- Tech Statewide
- Indianapolis
- W. Lafayette

### SCHEDULE TYPES

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<th>Weeks Offered</th>
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### COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

### COURSE LEARNING OUTCOMES:

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

OFFICE OF THE REGISTRAR

19-13
TO: The Faculty of the College of Engineering  
FROM: The Faculty of Agricultural and Biological Engineering  
RE: Deletion of ABE 43000  

The faculty of the Department of Agricultural and Biological Engineering have approved the deletion of the following course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**ABE 43000 Instrumentation and Data Acquisition**  
Sem 1. Class 3, Cr. 3  
Prerequisites: none  

Industrial applications of transducers for measuring pressure, flow, temperature and other quantities in food processing, agricultural, and biological engineering. Topics include characteristics of instruments; operational amplifier circuits; interfacing instruments with computers; data acquisition hardware and software. Exercises include hands-on experiments with electronic components and transducers such as thermocouples, turbine flow meters, global positioning systems (GPS), and computer programming for data .

**Reason:** This course has not been taught for approximately seven years. Some of the material taught in this course is now covered in ABE 46000 Sensors and Process Control and that course is considered a higher priority for our students.

Bernard A. Engel, Professor and Head  
Agricultural and Biological Engineering Department  

APPROVED FOR THE FACULTY OF THE SCHOOLS OF ENGINEERING BY THE ENGINEERING CURRICULUM COMMITTEE  
ECC Minutes 06.21.13  
Date 2-1-13  
Chairman ECC