

**PURDUE UNIVERSITY**  
**REQUEST FOR ADDITION, EXPIRATION,**  
**OR REVISION OF AN UNDERGRADUATE COURSE**  
 (10000-40000 LEVEL)

Print Form

Office of the Registrar  
 FORM 40 REV. 5/11

DEPARTMENT Agricultural and Biological Engineering EFFECTIVE SESSION Spring 2013 (201410)

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

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

<b>PROPOSED:</b>	<b>EXISTING:</b>	<b>TERMS OFFERED</b> Check All That Apply:
Subject Abbreviation _____	Subject Abbreviation <u>ABE</u>	<input type="checkbox"/> Fall <input type="checkbox"/> Spring <input type="checkbox"/> Summer
Course Number _____	Course Number <u>43000</u>	<b>CAMPUS(ES) INVOLVED</b> <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
Long Title <u>Instrumentation and Data Acquisition</u>		
Short Title _____		
Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)		

<b>CREDIT TYPE</b>	<b>COURSE ATTRIBUTES: Check All That Apply</b>
1. Fixed Credit: Cr. Hrs. <u>3</u>	1. Pass/Not Pass Only <input type="checkbox"/>
2. Variable Credit Range: Minimum Cr. Hrs. _____ Maximum Cr. Hrs. _____ (Check One) To <input type="checkbox"/> Or <input type="checkbox"/>	2. Satisfactory/Unsatisfactory Only <input type="checkbox"/>
3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>	3. Repeatable <input type="checkbox"/>
	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"/>
	6. Registration Approval Type 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"/>

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture	_____	_____	_____	_____
Recitation	_____	_____	_____	_____
Presentation	_____	_____	_____	_____
Laboratory	_____	_____	_____	_____
Lab Prep	_____	_____	_____	_____
Studio	_____	_____	_____	_____
Distance	_____	_____	_____	_____
Clinic	_____	_____	_____	_____
Experiential	_____	_____	_____	_____
Research	_____	_____	_____	_____
Ind. Study	_____	_____	_____	_____
Prac/Observ	_____	_____	_____	_____

Cross-Listed Courses

RECEIVED

MAY 23 2013

OFFICE OF THE REGISTRAR

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

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\*COURSE LEARNING OUTCOMES:

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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 <u>5/17/13</u>	Vice Chancellor for Academic Affairs _____ Date <u>5-17-13</u>	West Lafayette Registrar _____ Date <u>5/30/13</u>
West Lafayette Department Head _____ Date _____	West Lafayette College/School Dean _____ Date _____	

OFFICE OF THE REGISTRAR

LD  
5/30/13

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 EFD 19-13

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DEPARTMENT Agricultural and Biological Engineering

EFFECTIVE SESSION Spring 2013

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| <input type="checkbox"/> 4. Change in course number                       | <input type="checkbox"/> 10. Change in course requisites                                  |
| <input type="checkbox"/> 5. Change in course title                        | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
| <input type="checkbox"/> 6. Change in course credit/type                  | <input type="checkbox"/> 12. Transfer from one department to another                      |

<b>PROPOSED:</b> Subject Abbreviation _____ Course Number _____ Long Title <u>Instrumentation and Data Acquisition</u> Short Title _____	<b>EXISTING:</b> Subject Abbreviation <u>ABE</u> Course Number <u>43000</u>	<b>TERMS OFFERED</b> Check All That Apply: <input type="checkbox"/> Fall <input type="checkbox"/> Spring <input type="checkbox"/> Summer
Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)		<b>CAMPUS(ES) INVOLVED</b> <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

<b>CREDIT TYPE</b> 1. Fixed Credit: Cr. Hrs. <u>3</u> 2. Variable Credit Range: Minimum Cr. Hrs. _____ (Check One) To <input type="checkbox"/> Or <input type="checkbox"/> Maximum Cr. Hrs. _____ 3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>	<b>COURSE ATTRIBUTES: Check All That Apply</b> 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="checkbox"/> 4. Credit by Examination <input type="checkbox"/> 5. Fees: <input type="checkbox"/> Coop <input type="checkbox"/> Lab <input type="checkbox"/> Rate Request Include comment to explain fee _____ 6. Registration Approval Type 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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Experiential	_____	_____	_____	_____	
Research	_____	_____	_____	_____	
Ind. Study	_____	_____	_____	_____	
Pract/Observ	_____	_____	_____	_____	

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):  
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\*COURSE LEARNING OUTCOMES:  
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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 <i>[Signature]</i> <u>2/1/13</u> Date _____
	West Lafayette Registrar _____ Date _____

OFFICE OF THE REGISTRAR

**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 0621/13

Date 2-1-13

Chairman ECC Jeff Z. Day