

**TO:** The Faculty of the College of Engineering  
**FROM:** The Faculty of Agricultural and Biological Engineering  
**RE:** Change to Existing ABE 48500 in title and description

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

**From:** ABE 48500 Agricultural and Biological Engineering Design  
Sem. 2, Class 2, Lab 2, Cr. 4.  
Prerequisites: ABE 32500 and ABE 3300. Normally offered in Spring.  
Description: Machine or environmental systems design projects, team or individual, related to contemporary or potential problems in agricultural and biological engineering.

**To:** ABE 48500 Agricultural Engineering Project Management  
and Design  
Sem. 1, 2, and Su. Ind. , Cr. 4.  
Prerequisites: ABE 32500 and ABE 33000.  
Description: Review of information relative to project planning and execution in industry, including budgeting, intellectual property rights, contract and timelines. Machine or system environmental design projects, team or individual, related to contemporary or potential problems in agricultural engineering.

**Reason:** The course title is being changed by removing the word biological. The Department now has a separate Biological Engineering degree program and this course is intended for only those students in the Agricultural Engineering degree program. The course description has been updated in accordance with the topics currently being taught in the capstone classes. Students in Agricultural Engineering normally take ABE 48400 Project Planning and Management (1 cr.) during their 7<sup>th</sup> semester followed by ABE 48600 Agricultural Engineering Design (3 cr.) during their 8<sup>th</sup> and final semester. Those students who are out of sequence and want to complete their degree in a timely manner along with students who are not able to take ABE 48400 during their 7<sup>th</sup> semester for reasons such as participation in an internship or cooperative education experience, or a family obligation, will have the option of fulfilling their capstone requirements in one semester by enrolling in this course. Maximum flexibility will be maintained by offering this course all semesters and classifying the course as individual study to allow the instructor and students flexibility in scheduling times to work on their project, meet with the instructor or project sponsors, or to give project presentations.



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 #12

Date 7/19/2013

Chairman ECC 

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

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          | <input type="checkbox"/> 7. Change in course attributes (department head signature only)             |
| <input type="checkbox"/> 2. Add existing course offered at another campus | <input checked="" type="checkbox"/> 8. Change in instructional hours                                 |
| <input type="checkbox"/> 3. Expiration of a course                        | <input checked="" type="checkbox"/> 9. Change in course description                                  |
| <input type="checkbox"/> 4. Change in course number                       | <input type="checkbox"/> 10. Change in course requisites   |
| <input checked="" type="checkbox"/> 5. Change in course title             | <input checked="" 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>	<b>EXISTING:</b>
Subject Abbreviation <input type="text"/>	Subject Abbreviation <u>ABE</u>
Course Number <input type="text"/>	Course Number <u>48500</u>
Long Title <u>Agricultural Engineering Project Management and Design</u>	
Short Title <input type="text"/>	

**TERMS OFFERED**  
Check All That Apply:

Summer  Fall  Spring

**CAMPUS(ES) INVOLVED**

Calumet  N Central  
 Cont Ed  Tsch Statewide  
 Ft. Wayne  W Lafayette  
 Indianapolis

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>4</u>	1. Pass/Not Pass Only <input type="checkbox"/>
2. Variable Credit Range: <input type="text"/>	2. Satisfactory/Unsatisfactory Only <input type="checkbox"/>
Minimum Cr. Hrs. <input type="text"/>	3. Repeatable <input type="checkbox"/>
(Check One) To <input type="checkbox"/> Cr <input type="checkbox"/>	Maximum Repeatable Credit: <input type="text"/>
Maximum Cr. Hrs. <input type="text"/>	4. Credit by Examination <input type="checkbox"/>
3. Equivalent Credit: Yes <input type="checkbox"/> No <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 <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"/>
	Include comment to explain fee

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

Cross-Listed Courses

**RECEIVED**

**MAY 23 2013**

OFFICE OF THE REGISTRAR

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

Review of information relative to project planning and execution in industry, including budgeting, intellectual property rights, contract and timelines. Machine or system environmental design projects, team or individual, related to contemporary or potential problems in agricultural engineering.

Prerequisites: ABE 32500 and ABE 33000

**COURSE LEARNING OUTCOMES**

Design an environmental and natural resources system or a machine system.  
 Write a comprehensive design report and/or project reports for various target audiences.  
 Model/prototype and test projects in multidisciplinary teams which include government and industry engineers and marketing personnel supporting the specific projects.  
 Enhance communication skills by presenting project progress and final reports (written and oral) in a formal setting.  
 Experience engineering practice with professionalism and ethical responsibility.

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
<i>[Signature]</i> 5/17/13		<i>[Signature]</i> 5-17-13	
West Lafayette Department Head	Date	West Lafayette College/School Dean	Date
		<i>[Signature]</i> 5/30/13	
		West Lafayette Registrar	Date

OFFICE OF THE REGISTRAR

LD  
5/30/13