

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

EFD 27-12

DEPARTMENT Agricultural and Biological Engineering EFFECTIVE SESSION Fall

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

- | | |
|---|---|
| <input checked="" 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 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 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 |

PROPOSED: Subject Abbreviation <u>ABE</u> Course Number <u>48400</u> Long Title <u>Project Planning and Management</u> Short Title <u>Project Planning and Mgmt</u>		EXISTING: Subject Abbreviation _____ Course Number _____		TERMS OFFERED Check All That Apply: <input type="checkbox"/> Summer <input checked="" type="checkbox"/> Fall <input type="checkbox"/> Spring
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				

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

CREDIT TYPE 1. Fixed Credit: Cr. Hrs. <u>1</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"/>	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: _____ 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	1	16	100%	
Recitation					
Presentation					
Laboratory					
Lab Prep					
Studio					
Distance					
Clinic					
Experiential					
Research					
Ind. Study					
Pract/Observ					

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):
 Review of topics relevant to project planning and execution in industry, including technical communication, budgeting, team management, intellectual property rights, contracts and timelines. Students will select a Capstone project and assemble a project proposal within a team environment.

Prerequisites: ABE 32500 and ABE 33000

***COURSE LEARNING OUTCOMES**
 Synthesize a project plan and proposal, including developing a budget and timeline. Communicate technical content to technical and non-technical audiences in a concise and informative manner. Enhance communication skills by presenting project proposal (written and oral) in a formal setting.

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 _____

TO: The Faculty of the College of Engineering
FROM: The Faculty of Agricultural and Biological Engineering
RE: New Course ABE 48400

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

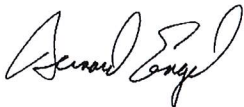
ABE 48400 Project Planning and Management

Sem. 1, Class 1, Cr. 1.

Requisites, Restrictions, and Attributes: ABE 32500 and ABE 33000.

Description: Review of topics relevant to project planning and execution in industry, including technical communication, budgeting, team management, intellectual property rights, contracts and timelines. Students will select a Capstone project and assemble a project proposal within a team environment.

Reason: This change will extend the senior design experience to two semesters as suggested by students who completed the Department's Agricultural Engineering Design courses. This course will prepare students to work on their senior design project in the spring semester by exposing them to facets of project management that they do not receive in the curricula. It will also allow them to develop a project plan for the Capstone project they are assigned. The course has been taught as a temporary offering since the fall of 2010. The results have been positive and the faculty would therefore like to officially make the change in approach to the capstone design experience.



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 _____

Date 7/30/2012

Chairman ECC R. Cipra

COURSE CONTACT INFORMATION:

Name: Dr. Bernard Engel
Phone Number: 494-1162
E-mail Address: engelb@purdue.edu
Campus Address: ABE 219

COURSE SUBJECT ABBREVIATION AND NUMBER: ABE 48400

COURSE TITLE: Project Planning and Management

COURSE CREDITS AND INSTRUCTIONAL TYPE: Sem. 1. Class 1, cr. 1.

COURSE DESCRIPTION: Review of topics relevant to project planning and execution in industry, including technical communication, budgeting, team management, intellectual property rights, contracts and timelines. Students will select a Capstone project and assemble a project proposal within a team environment.

A. Justification

This change will extend the senior design experience to two semesters as suggested by students who have completed ABE 48500 Agricultural Engineering Design. This course will prepare students to work on their senior design project in the spring semester by exposing them to facets of project management that they do not receive in the curricula. It will also allow them to develop a project plan for the Capstone project they are assigned. The course has been taught as a temporary offering since the fall of 2010. The results have been positive and the faculty would therefore like to officially make the change in approach to the capstone design experience.

Level of Course: 100% anticipated enrollment of upper division students (seniors).

B. Learning Outcomes and Method of Evaluation or Assessment

Learning outcomes:

- Synthesize a project plan and proposal, including developing a budget and timeline.
- Communicate technical content to technical and non-technical audiences in a concise and informative manner..
- Enhance communication skills by presenting project proposal (written and oral) in a formal setting.

Methods of evaluation or assessment:

Grades for this course will be based on the following:

Project proposal: 60%

Project presentation: 20%

In-class participation and homework: 20%

A = ≥ 90

B = 80-89.5%

C = 70-79.5%

D = 60-69.5%

F = $<59.5\%$

C. Pre- or Co-requisites: ABE 32500 and ABE 33000

D. Course Instructor(s): Dr. Bernard Engel

E. Course Outline of Topics/Syllabus:

1. Introduction
2. Technical Writing
3. Design and Problem Solving Process
4. Quantitative decision making
5. Project scheduling and budgeting
6. Safety procedures when using departmental facilities and laboratories

F. Reading List/Textbook:

Lectures and presentations will be drawn from the literature or from personal experience and knowledge of the person making the presentation.

G. Library Resources (none)

H. Example of a Course Syllabus

Instructors: Dr. Bernie Engel
219 ABE

engelb@purdue.edu
Office phone: 765-494-1162

Course description:

ABE 484 Project Planning & Management. Review of topics relevant to project planning and execution in industry, including technical communication, budgeting, team management, intellectual property rights, contracts and timelines. Students will select a capstone project and assemble a project proposal within a team environment.

Course website: <http://engineering.purdue.edu/~engelb/capstone/> (use abe for the login and password when prompted)

Optional Text:

Getting Starting on Project Management by Paula Martin and Karen Tate. John Wiley, 2001.

Meeting time:

Lecture: M 4:30-5:20

Location: ABE 204 & 205

Check course website for weekly schedule.

Grading:

Project proposal: 60 %

Project presentation: 20 %

In-class participation/homework: 20 %

Grading Scale:

A ≥ 90 %

B 80 – 89.9 %

C 70-79.5%

D 60-69.5%

F < 59.5%

Student learning outcomes:

- Synthesize a project plan and proposal, including developing a budget and timeline.
- Communicate technical content to technical and non-technical audiences in a concise and informative manner.
- Enhance communication skills by presenting project proposal (written and oral) in a formal setting

Class polices:

Students must attend every class and actively participate in class activities. If a student cannot attend class because of a family emergency or other legitimate reason, students must notify the instructor in advance and an alternative assignment will be given in place of class participation. Short writing assignments will be given periodically throughout the semester, which are due to the instructor by the end of the following class (or as specified). Deadlines for capstone project deliverables are indicated on the course website.

Tentative Schedule:

<u>Date</u>	<u>Content</u>
8/22	Course introduction
8/29	Technical writing
9/5	No class
9/12	Design/Problem solving process
9/19	Quantitative decision making; project descriptions available online
9/26	Project scheduling, budgeting
10/3	Safety – Scott Brand
10/7	1st draft of proposal due
10/28	Intellectual property; Final draft of proposal due
11/28	Project presentations
12/5	Responses to industry reviewers due
2/27/12	Mid-term presentations & progress reports due
4/12/12 or 4/19/12	Poster presentations & judging
4/27/12	Final report due