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 7th semester followed by ABE 48600 Agricultural Engineering Design (3 cr.) during their 8th 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 7th 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
Office of the Registrar

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
- 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 requisites
- Change in semesters offered (department head signature only)
- Transfer from one department to another

PROPOSED:

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>Course Number</th>
<th>Short Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABE</td>
<td>48500</td>
<td>Agricultural Engineering Project Management and Design</td>
</tr>
</tbody>
</table>

CREDIT TYPE:

- Fixed Credit: 4 Cr. Hrs
- Variable Credit Range:
  - Minimum Cr. Hrs: 3
  - Maximum Cr. Hrs: 5
- Equivalent Credit: Yes
- Repeatability:
  - Maximum Repeatable Credit: 3

COURSE ATTRIBUTES:

- Pass/Not Pass Only
- Satisfactory/Unsatisfactory Only
- Credit by Examination
- Fees
- Studio
- Distance
- Ctmx:
- Experiential
- Research
- Ind. Study
- Pract/Observ

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.

RECEIVED
MAY 23 2013
OFFICE OF THE REGISTRAR

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