**PURDUE UNIVERSITY**

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

**DEPARTMENT:** Agricultural and Biological Engineering  
**EFFECTIVE SESSION:** Spring 2014

**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
- [X] Expansion 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 prerequisites
- [ ] 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 ABE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>Course Number</td>
</tr>
<tr>
<td>12000</td>
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</table>

**Long Title:** Introduction to Agricultural and Biological Engineering

**Short Title:**

**CREDIT TYPE:**

<table>
<thead>
<tr>
<th>1. Fixed Credit</th>
<th>Cr. Hrs.</th>
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**COURSE ATTRIBUTES:**

<table>
<thead>
<tr>
<th>1. Pass/No Pass Only</th>
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</table>

**TERM OFFERED:**

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

- [ ] Calumet
- [ ] N. Central
- [ ] Cont Ed
- [ ] Tech State/Muncie
- [ ] Ft. Wayne
- [ ] W. State
- [ ] Indianapolis
- [ ] West Lafayette

**ABBREVIATED TITLE WILL BE ENTERED BY THE OFFICE OF THE REGISTRAR IF OMITTED. (20 CHARACTERS ONLY)**

**SCHEDULE TYPE:**

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Minutes Per Min</th>
<th>Meetings Per Week</th>
<th>% of Credit</th>
<th>% of Credit</th>
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<tbody>
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</tbody>
</table>

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

**COURSE LEARNING OUTCOMES:**

**REGISTRATION:**

- [X] Registration Approval Type
  - [ ] Department
  - [ ] Instructor

**RECEIVED:**

**OFFICE OF THE REGISTRAR:**

<table>
<thead>
<tr>
<th>Cross-Listed Courses</th>
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**MAY 23, 2013**

**OFFICE OF THE REGISTRAR:**

**LD 5/30/13**
**REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE**

**DEPARTMENT**: Agricultural and Biological Engineering

**EFFECTIVE SESSION**: Spring 2013

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**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

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**PROPOSED:**

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
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<th>Course Number</th>
<th>Course Number</th>
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<tbody>
<tr>
<td>ABE</td>
<td>ABE</td>
<td>12000</td>
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**LONG TITLE**: Introduction to Agricultural and Biological Engineering

**SHORT TITLE**:

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**CAMPUS(ES) INVOLVED**

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

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**TERMS OFFERED**: Check All That Apply:

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

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**CREDIT TYPE**

1. Fixed Credit: Cr. Hrs.: 1
2. Variable Credit Range: Minimum Cr. Hrs. 1
   (Check One) To Or
   Maximum Cr. Hrs. 1
3. Equivalent Credit: Yes No

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**COURSE ATTRIBUTES**: Check All That Apply

- Pass/Not Pass Only
- Satisfactory/Unsatisfactory Only
- Repeatable
- Maximum Repeatable Credit
- Credit by Examination
- Fees: Coop, Lab Rate Request

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**SCHEDULE TYPE**

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<th>Meetings Per Week</th>
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<td>Pract/Obser</td>
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**COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):**

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**COURSE LEARNING OUTCOMES:**

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**SIGNATURES**

- 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

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**OFFICE OF THE REGISTRAR**

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**Print Form [EFD 18-13]**
TO: The Faculty of the College of Engineering  
FROM: The Faculty of Agricultural and Biological Engineering  
RE: Deletion of ABE 12000

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 12000 Introduction to Agricultural and Biological Engineering  
Sem 1 and 2, Class 1, Cr. 1  
Prerequisites: none

Introduction to engineering technologies and career opportunities involved in agricultural and biological engineering. A selection of invited lectures, participation exercises, lab tours, and field trips designed to acquaint students with the profession of agricultural and biological engineering. Topics to be covered may include biopolymers, alternate fuels, emulsions in food, extruded food products, finite element analysis, geographic information systems, site-specific resource usage, mechanical properties of biological materials, post-harvest engineering, and control systems in food process engineering.

Reason: This course has not been taught for approximately seven years. Much of the material is covered in AGR 11100 Introduction to Agricultural and Biological Engineering, which is available to students who want to take it. In addition, the restructuring of the First Year Engineering curriculum has drastically reduced the demand for this course.

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