

TO: The Faculty of the College of Engineering
FROM: The Faculty of Agricultural and Biological Engineering
RE: Deletion of ABE 45400

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 45400 Transport Progress in Biological and Food Process Systems

Sem 2. Class 3, Lab 2, Cr. 4

Prerequisites: CHE 37800 [may be taken concurrently]

Application of momentum and heat transfer to biological and food process engineering. Viscosity, non-Newtonian fluids, experimental methods of rheological characterization of food and biological systems; viscoelasticity; design equations for pipe flow, pumps, mixing, emulsification, extrusion, sheeting, heat exchangers, aseptic processing, sterilization, freezing, and evaporation.

Reason: This course is being replaced with ABE 45700 (3 credits). The lab is being dropped from the new course and incorporated into ABE 30400. That reduction in course content and credit hours will help the program meet the 128 credit hour constraint.



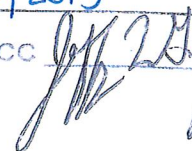
Bernard A. Engel, Professor and Head
Agricultural and Biological Engineering Department

APPROVED FOR THE FACULTY
OF THE SCHOOLS OF ENGINEERING
BY THE ENGINEERING
CURRICULUM COMMITTEE

ECC Minutes #13

Date 5/10/2013

Chairman ECC



Office of the Registrar
FORM 40 REV. 10/10

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 type="checkbox"/>	8. Change in instructional hours
<input checked="" 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/restrictions
<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 _____ **EXISTING:** Subject Abbreviation ABE

Course Number _____ Course Number 45400

Long Title Transport Processes in Biological and Food Process Systems

Short Title _____

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

TERMS OFFERED
Check All That Apply.

Fall Spring Summer

CAMPUS(ES) INVOLVED

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

CREDIT TYPE

1. Fixed Credit: Cr. Hrs. _____

2. Variable Credit Range: _____
 Minimum Cr. Hrs. _____
 (Check One) To Or
 Maximum Cr. Hrs. _____

3. Equivalent Credit: Yes No

COURSE ATTRIBUTES: Check All That Apply

1. Pass/Not Pass Only

2. Satisfactory/Unsatisfactory Only

3. Repeatable

Maximum Repeatable Credit: _____

4. Credit by Examination

5. Special Fees

6. Registration Approval Type
 Department Instructor

7. Variable Title

8. Honors

9. Full Time Privilege

10. Off Campus Experience

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				
Pract/Observ				

Cross-Listed Courses

RECEIVED

MAY 23 2013

OFFICE OF THE REGISTRAR

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

COURSE LEARNING OUTCOMES

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 _____
<i>[Signature]</i> _____ Date <u>5-17-13</u>	<i>[Signature]</i> _____ Date <u>5/30/13</u>
West Lafayette Registrar	West Lafayette Registrar

OFFICE OF THE REGISTRAR

UD
5/30/13

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

EFD 57-13

DEPARTMENT Agricultural and Biological Engineering EFFECTIVE SESSION Spring 2013

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 type="checkbox"/> 8. Change in instructional hours |
| <input checked="" 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/restrictions |
| <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

Course Number

Long Title Transport Processes in Biological and Food Process Systems

Short Title

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

EXISTING:

Subject Abbreviation ABE

Course Number 45400

TERMS OFFERED

Check All That Apply:

Fall Spring Summer

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 | |

CREDIT TYPE

1. Fixed Credit: Cr. Hrs. 4
2. Variable Credit Range: To Or
- (Check One) Minimum Cr. Hrs. Maximum Cr. Hrs.
3. Equivalent Credit: Yes No

COURSE ATTRIBUTES: Check All That Apply

1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable Maximum Repeatable Credit:
4. Credit by Examination
5. Special Fees
6. Registration Approval Type Department Instructor
7. Variable Title
8. Honors
9. Full Time Privilege
10. Off Campus Experience

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				
Pract/Observ				

Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

COURSE LEARNING OUTCOMES

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