**PURDUE UNIVERSITY**  
REQUEST FOR ADDITION, EXPIRATION,  
OR REVISION OF A COURSE  

**DEPARTMENT**  
Biomedical Engineering  

**EFFECTIVE SESSION**  
2/04, EFD24-03  

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

1. New course with supporting documents
2. Add existing course offered at another campus
3. Expiration of a course
4. Change in course number
5. Change in course title
6. Change in course credit/type
7. Change in course attributes
8. Change in instructional hours
9. Change in course description
10. Change in course prerequisites
11. Change in semesters offered

**PROPOSED:**

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>Subject Abbreviation</th>
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<tbody>
<tr>
<td>BME</td>
<td></td>
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<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Number</th>
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<tbody>
<tr>
<td>306</td>
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**EXISTING:**

<table>
<thead>
<tr>
<th>Long Title</th>
<th>Biotransport Laboratory</th>
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<table>
<thead>
<tr>
<th>Short Title</th>
<th>Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)</th>
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**TERMS OFFERED**

Check All That Apply:

- Summer
- Fall
- Spring

**CAMPUS(ES) INVOLVED**

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

**CREDIT TYPE**

1. Fixed Credit: Cr. Hrs. 1
2. Variable Credit Range: Minimum Cr. Hrs (Check One) To Or Maximum Cr. Hrs
3. Equivalent Credit: Yes
4. Thesis Credit: Yes

**COURSE ATTRIBUTES:** Check All That Apply.

1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
4. Maximum repeatable credit:
5. Credit by Examination
6. Designator Required
7. Registration Approval Type
   - Department
   - Instructor
8. Variable Title
9. Remedial
10. Honors
11. Full Time Privilege
12. Off Campus Experience

**INSTRUCTIONAL TYPE**

- Lecture
- Laboratory
- Practical
- Clinic
- Distance
- Clinical
- Research
- Coursework
- Practicum

<table>
<thead>
<tr>
<th>Minutes Per Mgr</th>
<th>Meetings Per Week</th>
<th>Weeks Offered</th>
<th>% of Credit Allocated</th>
<th>Delivery Method (Asyn. Cr Syn.)</th>
<th>Delivery Medium (Audio, Internet, Live, Text-Based, Video)</th>
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<td>3</td>
<td>16</td>
<td>Live</td>
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**COURSE DESCRIPTION (INCLUDE REQUISITES):**

Sem. 2. Lab 3. cr. 1. Prerequisite: ME 309 or equivalent, Corequisite: BME 304

Practical experience with fluid, mass, and heat transport principles and dimensional analysis relevant to biomedical applications. Experiments include simulations of normal and pathological conditions of blood flow with vessel constructs, mass transfer in unique boundary layers and molecular diffusion in cell and tissues, heat generation and transfer in biomaterials emphasizing tissue-tissue and tissue-cell interfaces.

**APPROVALS:**

- Calumet Undergrad Curriculum Committee  
- Calumet Department Head  
- Calumet School Dean  
- Fort Wayne Department Head  
- Fort Wayne School Dean  
- Fort Wayne Chancellor  
- Indianapolis Department Head  
- Indianapolis School Dean  
- Indianapolis Undergrad Curriculum Committee  
- North Central Department Head  
- North Central Chancellor  
- North Central School Dean  
- West Lafayette Department Head  
- West Lafayette School Dean  
- West Lafayette Registrar  
- Graduate Council Secretary  
- Graduate Dean  

**OFFICE OF THE REGISTRAR**