New Course Request

Indiana University
Indianapolis Campus

Check Appropriate Boxes:  Undergraduate credit ☑  Graduate credit □  Professional credit □

1. School/Division  School of Engineering and Technology
2. Academic Subject Code  BME

3. Course Number  491  (must be cleared with University Enrollment Services)
4. Instructor

5. Course Title  Biomedical Engineering Design I
   Recommended Abbreviation (Optional)  BME Design I  (Limited to 22 Characters including spaces)

6. First time this course is to be offered (Semester/Year):  Fall 2007

7. Credit Hours: Fixed at 3 or Variable from  to  

8. Is this course to be graded S-F (only)? Yes ☑ No  

9. Is variable title approval being requested? Yes ☑ No  

10. Course description (not to exceed 50 words) for Bulletin publication:  This course prepares students for engineering practice through a major design experience, encompassing conceptualization, requirements generation, and system and detailed design. Essential design constraints will be reviewed and applied including: safety, economics, and manufacturability. The course encompasses lectures, case studies, team formation, project assignments and generation of initial design. Prerequisites: Senior standing and consent of department chair.

11. Lecture Contact Hours: Fixed at 1 or Variable from  to  

12. Non-Lecture Contact Hours: Fixed at 5 or Variable from  to  

13. Estimated enrollment: 25, of which 0 percent are expected to be graduate students.

14. Frequency of scheduling: Yearly  Will this course be required for majors? Yes  

15. Justification for new course: New BME undergraduate curriculum

16. Are the necessary reading materials currently available in the appropriate library? Yes

17. Please append a complete outline of the proposed course, and indicate instructor (if known), textbooks, and other materials.

18. If this course overlaps with existing courses, please explain with which courses it overlaps and whether this overlap is necessary, desirable, or unimportant.

19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be an overlap of the new course with existing courses or areas of strong concern, with instructions that they send comments directly to the originating Curriculum Committee. Please append a list of departments, schools, or divisions thus consulted.

Submitted by:

[Signature]  Date 3/6/07

Department Chairman/Division Director

[Signature]  Date 3/23/07

Dean

Dean of Graduate School (when required)

[Signature]  Date

Chancellor/Vice-President

[Signature]  Date

University Enrollment Services

After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.

UPS 724  University Enrollment Services Final—White; Chancellor/Vice-President—Blue; School/Division—Yellow; Department/Division—Pink; University Enrollment Services Advance—White
### PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE (100-400 LEVEL)

**DEPARTMENT Biomedical Engineering**
**EFFECTIVE SESSION** Fall 2007

**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 credit type
5. Change in course title
6. Change in course credit type
7. Change in course attributes (department head signature only)
8. Change in instruction hours
9. Change in course description
10. Change in course requisites
11. Change in semesters offered (department head signature only)
12. Transfer from one department to another

**PROPOSED:***

<table>
<thead>
<tr>
<th>Subject Abbreviation</th>
<th>BME</th>
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<tbody>
<tr>
<td>Course Number</td>
<td>491</td>
</tr>
<tr>
<td>Long Title</td>
<td>Biomedical Engineering Design I</td>
</tr>
<tr>
<td>Short Title</td>
<td>BME Design I</td>
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</tbody>
</table>

**EXISTING:**

**TERMS OFFERED**

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

**CAMPUS(ES) INVOLVED**

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

**ABBREVIATED TITLE** will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

### CREDIT TYPE

<table>
<thead>
<tr>
<th>1. Fixed Credit: Cr. Hrs.</th>
<th>3</th>
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<tbody>
<tr>
<td>2. Variable Credit Range:</td>
<td>Minimum Cr. Hrs.</td>
</tr>
<tr>
<td>(Check One)</td>
<td>To</td>
</tr>
<tr>
<td>Maximum Cr. Hrs.</td>
<td>Yes</td>
</tr>
<tr>
<td>Equivalent Credit:</td>
<td>Yes</td>
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<tr>
<td>4. Thesis Credit:</td>
<td>Yes</td>
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### COURSE ATTRIBUTES

<table>
<thead>
<tr>
<th>1. Pass/Not Pass Only</th>
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<tbody>
<tr>
<td>2. Satisfactory/Unsatisfactory Only</td>
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<tr>
<td>3. Repeatable</td>
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<tr>
<td>4. Credit by Examination</td>
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<tr>
<td>5. Designator Required</td>
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<td>6. Special Fees</td>
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### COURSE DESCRIPTION (INCLUDE REQUISITES):

P: Senior standing and consent of department chair. This course prepares students for engineering practice through a major design experience, encompassing conceptualization, requirements generation, and system and detailed design. Essential design constraints will be reviewed and applied including: safety, economics, and manufacturability. The course encompasses lectures, case studies, team formation, project assignments and generation of initial design.

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**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 Department Head** Date

**North Central Chancellor** Date

**West Lafayette Department Head** Date

**West Lafayette College/School Dean** Date

**West Lafayette Registrar** Date

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**OFFICE OF THE REGISTRAR**