**PURDUE UNIVERSITY**

**REQUEST FOR ADDITION, DELETION, OR REVISION OF A COURSE**

**DEPARTMENT**: Mechanical Engineering  
**DATE SUBMITTED**: 11/7/00  
**DATE EFFECTIVE**: Fall 2002

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


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**EXISTING**

- **Subject Abbreviation**: ME  
- **Course Number**: 508  
- **Proposed Title**: Heat Transfer in Biological Systems  
- **Variable Title**: Yes [X] No

**PROPOSED**

- **Subject Abbreviation**: ME  
- **Course Number**: 508  
- **Proposed Title**: Heat Transfer in Biological Systems  
- **Variable Title**: Yes [X] No

**SEMESTERS OFFERED**

- **Check All That Apply**: Summer [X] Fall [X] Ag Winter [X] Spring

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**CROSS LISTED COURSES**

| Instructional Type | Class | FTE
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**COURSE DESCRIPTION (PREREQUISITES INCLUDED)**:

ME 508 Heat Transfer in Biological Systems (Offered in alternate years). Prerequisites: senior or graduate standing or consent of instructor. Introduction to applications of heat transfer in living systems to students who have general interests in biomedical engineering. Fundamental concepts of biology and engineering involved in these applications are introduced. Regulation of blood flow under external thermal stimuli and its effect on heat transfer are discussed. Clinical applications of heat transfer, including cancer therapy and gene therapy, Professor L. X. Xu.

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**CREDIT TYPE**

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

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**COURSE ATTRIBUTES**: Check All That Apply

1. Pass/Not Pass Only
2. Repeatable for Credit
3. Available for Credit by Examination
4. Designator Required
5. Special Fees
6. Approval Required for Enrollment Department Instructor

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**CAMPUS(ES) INVOLVED**

Calumet  
Fort Wayne  
Indianapolis  
North Central  
West Lafayette  
Off Campus

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**OFFICE OF THE REGISTRAR**