

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

SCHOOL DOCUMENT NO. 16-00

GRADUATE COUNCIL DOCUMENT NO. 00-20b

Spring 2002

DEPARTMENT Mechanical Engineering

DATE SUBMITTED 11/7/00

DATE EFFECTIVE Fall 2000

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

**PURPOSE**

- |   |   |
|---|---|
| <input type="checkbox"/> 1. Deletion of a course                            | <input type="checkbox"/> 8. Change in semesters offered                   |
| <input checked="" type="checkbox"/> 2. New course with supporting documents | <input type="checkbox"/> 9. Change in course credit/type                  |
| <input type="checkbox"/> 3. Add existing course offered at another campus   | <input type="checkbox"/> 10. Change in course attributes                  |
| <input type="checkbox"/> 4. Change in course number at same level           | <input type="checkbox"/> 11. Change in instructional hours                |
| <input type="checkbox"/> 5. Downgrading of course level                     | <input type="checkbox"/> 12. Change in prerequisites                      |
| <input type="checkbox"/> 6. Upgrading of course level                       | <input type="checkbox"/> 13. Change in description of course content      |
| <input type="checkbox"/> 7. Change in course title                          | <input type="checkbox"/> 14. Transfer of course from one dept. to another |

**EXISTING:**

**PROPOSED:**

**SEMESTERS OFFERED**

Subject Abbreviation \_\_\_\_\_ Subject Abbreviation ME  
 Course Number \_\_\_\_\_ Course Number 508  
 Proposed Title Heat Transfer in Biological Systems  
 Variable Title Yes  No

Check All That Apply.  
 Summer  Fall  Ag Winter  Spring

Abbreviated Title Heat Trans in Biol Sys  
 Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

**CROSS LISTED COURSES**

**CREDIT TYPE**

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

- Fixed Credit: Cr. Hrs. 3
- Variable Credit Range:  
 Minimum Cr. Hrs \_\_\_\_\_  
 (Check One) To  Or   
 Maximum Cr. Hrs. \_\_\_\_\_
- Equivalent Credit: Yes  No
- Thesis Credit: Yes  No

- Pass/Not Pass Only
  - Repeatable for Credit
  - Available for Credit by Examination
  - Designator Required
  - Special Fees
  - Approval Required for Enrollment
- Department \_\_\_\_\_  
 Instructor \_\_\_\_\_

Instructional Type	Class Hours	FTE	Instructional Type	Class Hours	FTE	Instructional Type	Class Hours	FTE
Primary	<u>3</u>		Auto-tutorial			Thesis		
Secondary			Ind. Study			Observation		
Laboratory			Clinic			Matis Based		
Lab. Prep.			Experiential					

**CAMPUS(ES) INVOLVED**

Calumet	<input type="checkbox"/>
Fort Wayne	<input type="checkbox"/>
Indianapolis	<input type="checkbox"/>
North Central	<input type="checkbox"/>
West Lafayette	<input checked="" type="checkbox"/>
Off Campus	<input type="checkbox"/>

**COURSE DESCRIPTION (PREREQUISITES INCLUDED):** 2.

ME 508 Heat Transfer in Biological Systems Sem.  Class 3, cr. 3. (Offered in alternate years.) Prerequisite: 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 will be discussed. Clinical applications of heat transfer, including cancer therapy and gene therapy. Professor L. X. Xu.

Calumet Undergrad Curriculum Committee	Date	Calumet Department Head	Date	Calumet School Dean	Date
Fort Wayne Department Head	Date	Fort Wayne School Dean	Date	Fort Wayne Chancellor	Date
				Appr. for Faculty <u>C.D. Sutton</u> #935	
				C.D. Sutton, Chair	11/8/00
Indianapolis Department Head	Date	Indianapolis School Dean	Date	Undergrad Curriculum Committee	Date
				APPROVED 4/19/01	
North Central Department Head	Date	North Central Vice Chancellor	Date	Date Approved by Graduate Council	
<u>E. Daniel Hirtman</u> / 9/27/00	11/7/00	<u>L. D. Vigg</u>	9/11/00	<u>Marilyn D. Hart</u>	5/8/01
West Lafayette Department Head	Date	West Lafayette School Dean	Date	Graduate Council Secretary	Date
<u>Kathleen C. Howell</u>	4/19/01			<u>Debra Okutsu</u>	5/14/01
Graduate Area Committee Convener	Date	Graduate Dean	Date	West Lafayette Registrar	Date

