Office of the Registrar
FORM 40 REV. 2/99

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

EFD
SCHOOL DOCUMENT NO. 72-00

GRADUATE COUNCIL DOCUMENT NO.

DEPARTMENT Agricultural and Biological Engineering DATE SUBMITTED 5/9/01 DATE EFFECTIVE Summer '01

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

PURPOSE

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

EXISTING:

Subject Abbreviation ABE
Course Number 450

PROPOSED:

Subject Abbreviation ABE
Course Number 450

Proposed Title Finite Element Method in Design and Optimization
Variable Title Yes ☐ No ✓

Abbreviated Title Fin Elem Meth Dsgn Opt
Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

SEMESTERS OFFERED
Check All That Apply.

Summer	Fall	Ag Winter	Spring
☐	✓	☐	☐

CROSS LISTED COURSES

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

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

Instructional Type	Class Hours	FTE	Instructional Type	Class Hours	FTE	Instructional Type	Class Hours	FTE
Primary	3		Auto-tutorial			Thesis		
Secondary			Ind. Study			Observation		
Laboratory			Clinic			Matls Based		
Lab. Prep.			Experiential					

CAMPUS(ES) INVOLVED
Calumet ☐
Fort Wayne ☐
Indianapolis ☐
North Central ☐
West Lafayette ✓
Off Campus ☐

COURSE DESCRIPTION (PREREQUISITES INCLUDED):
Sem. 1. Class 3, cr. 3. Prerequisite: ABE 330 or consent of instructor.
Fundamentals of the finite element method as it is used in modeling, analysis and design of thermal/fluid and mechanical systems; one- and two-dimensional elements; boundary value problems, heat transfer and fluid flow problems; structural and solid mechanics problems involving beam, truss, frame, plate and shell elements; computer-aided design and optimization of machine components, structural elements and thermal/fluid system.

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 #944
C.D.Sutton,Chair 2/14/01

Indianapolis Department Head — Date
Indianapolis School Dean — Date
Undergrad Curriculum Committee — Date

Paul A Brandt 5/10/01
~~North Central Vice Chancellor~~ Dean - Ag

North Central Department Head — Date
~~North Central Vice Chancellor~~ — Date
Date Approved by Graduate Council

5-9-01

West Lafayette Department Head — Date
West Lafayette School Dean + Engr — Date
Graduate Council Secretary — Date

Debra Sheets 5/30/01

Graduate Area Committee Convener — Date
Graduate Dean — Date
West Lafayette Registrar — Date

OFFICE OF THE REGISTRAR