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

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

EXISTING:

Subject Abbreviation: ABE
Course Number: 450
Proposed Title: Finite Element Method in Design and Optimization
Abbreviated Title: Fin Elem Meth Dsgn Opt

PROPOSED:

Subject Abbreviation: ABE
Course Number: 450

Proposed Title: Finite Element Method in Design and Optimization
Abbreviated Title: Fin Elem Meth Dsgn Opt

SEMMESTERS OFFERED:

Check All That Apply:
- Summer
- Fall
- Ag
- Winter
- Spring

CROSS LISTED COURSES

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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

Indianapolis Department Head:
Date

Indianapolis School Dean:
Date

North Central Department Head:
Date

North Central Vice Chair:
Date

West Lafayette Department Head:
Date

West Lafayette School Dean:
Date

Graduate Area Committee:
Date

Graduate Dean:
Date

OFFICE OF THE REGISTRAR