Office of the Registrar
FORM 40 REV. 12/03

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

EFD A-04

DEPARTMENT Agricultural and Biological Engineering

EFFECTIVE SESSION Spring 2005

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

	1. New course with supporting documents		7. Change in course attributes
	2. Add existing course offered at another campus		8. Change in instructional hours
	3. Expiration of a course		9. Change in course description
	4. Change in course number		10. Change in course requisites
	5. Change in course title	✓	11. Change in semesters offered
	6. Change in course credit/type		

PROPOSED:		EXISTING:	
Subject Abbreviation		Subject Abbreviation	ABE
Course Number		Course Number	320

Long Title: Solid Modeling, Simulation, and Analysis

Short Title: Sld Mod Dyn Sim Anly

Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

TERMS OFFERED
Check All That Apply:
Summer | Fall | Spring ✓

CAMPUS(ES) INVOLVED

Calumet		Fort Wayne	
Indianapolis		N. Central	
W.Lafayette	✓	Cont Ed	
Tech Statewide			

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. Satisfactory/Unsatisfactory Only
3. Repeatable
Maximum repeatable credit:
4. Credit by Examination
5. Designator Required
6. Special Fees

7. Registration Approval Type
Department None Instructor
8. Variable Title
9. Remedial
10. Honors
11. Full Time Privilege
12. Off Campus Experience

Instructional Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated	Delivery Method (Asyn. Or Syn.)	Delivery Medium(Audio, Internet, Live, Text-Based, Video)
Lecture	50	2	15			
Recitation						
Presentation						
Laboratory	110	2	15			
Lab Prep						
Studio						
Distance						
Clinic						
Experiential						
Research						
Ind. Study						
Pract/Observ						

COURSE DESCRIPTION (INCLUDE REQUISITES):

Introduction to parametric, feature-based solid modeling; dimensioned 2D and 3D engineering drawings; tolerancing; mechanical dynamic simulation; kinematic models, analysis and simulation of simple linkages and complex systems; mehcanism design and evaluation;visualization and animation of results; interfacing of computer aided ~~engineering software. Projects involving industrial parts and assemblies will be discussed~~ and assigned.

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
Indianapolis Department Head	Date	Indianapolis School Dean	Date	Undergrad Curriculum Committee Robert E Montgomery	Date 6/1/05
North Central Department Head	Date	North Central Chancellor	Date	Date Approved by Graduate Council	
West Lafayette Department Head 4/7/05	Date	West Lafayette School Dean	Date 6/7/05	Graduate Council Secretary	Date
Graduate Area Committee Convener	Date	Graduate Dean	Date	West Lafayette Registrar	Date

OFFICE OF THE REGISTRAR

Engineering Faculty Document No. 19-04
March 1, 2005

TO: Engineering Faculty

FROM: The Faculty of Agricultural and Biological Engineering

RE: Change in Semester Offering for ABE 320

The faculty of the Department of Agricultural and Biological Engineering has approved the following course change. This action is now submitted to the Engineering Faculty with a recommendation for approval.

ABE 320 – Solid Modeling, Simulation, and Analysis

From: Sem. 1, class 1, lab 4, cr. 3
Prerequisite(s): NUCL 273, MA 262; Corequisite: M E 274.

To: Sem. 2, class 1, lab 4, cr. 3
Prerequisite(s): NUCL 273, MA 262; Corequisite: M E 274.

Introduction to parametric, feature-based solid modeling; dimensioned 2D and 3D engineering drawings; tolerancing; mechanical dynamic simulation; kinematic models, analysis and simulation of simple linkages and complex systems; mechanism design and evaluation; visualization and animation of results; interfacing of computer aided engineering software. Projects involving industrial parts and assemblies will be discussed and assigned.

Reason: By changing semesters, the course fits in student's plan of study in better sequence in accordance with other courses required.

Bernie A. Engel
Interim Head, Department of Agricultural and Biological Engineering

APPROVED FOR THE FACULTY
OF THE SCHOOLS OF ENGINEERING
BY THE COMMITTEE ON
FACULTY RELATIONS

CFR Minutes 1001

Date 3-1-05

Chairman CFR Robert C. Montgomery