Office of the Registrar FORM 40 REV. 2/99

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

SCHOOL DOCUMENT NO. 34-01

GRADUATE COUNCIL DOCUMENT NO. 02-17a

**DEPARTMENT Materials Engineering** 

DATE SUBMITTED 2/28/02

DATE EFFECTIVE Spring 2004

INSTRUCTIONS: Please check the items below which describe the purpose of this request.  PURPOSE					
1. Deletion of a course 2. New course with supportin 3. Add existing course offere 4. Change in course number 5. Downgrading of course level 6. Upgrading of course level 7. Change in course title	g documents d at another campus at same level	9. Change in co 10. Change in co 11. Change in ins 12. Change in pr 13. Change in de	structional hours		
EXISTING:	PROPOSED:			SEMESTERS OFFERED	
Subject Abbreviation Course Number	Course Number 505		Check All That Apply. Summer Fall Ag Winte	er Spring	
Proposed Title Woodeling and Simulation Variable Title Yes No	on of Materials Processing		Immonial language Summand		
Abbreviated Title Modl & Siml Matls Pr	OC  Office of the Registrar if omitted. (22 CHARACT	ERS ONLY)			
		1. Pass/No 2. Repeata 3. Available 4. Designa 5. Special	TRIBUTES: Check All That Apply.  In Pass Only  In It is provided in the control of the control o		
Type Hours Type Primary 3 Auto- Secondary Ind. S Laboratory Clinic		Class Hours	CAMPUS(ES) INV Calumet Fort Wayne Indianapolis North Central West Lafayette Off Campus	OLVED	
COURSE DESCRIPTION (PREREQUISITES INCLUDED):  Sem.2, Class 3, Cr.3. (Offered in Alternate Pears) Prerequisites: MSE 340 or ME 315 or graduate standing. Modeling of various materials processes using finite volume techniques, with an introduction to finite difference and finite element methods. Simulation of microstructural evolution using cellular automata. Links between microscopic and macroscopic modeling. Approximate modeling, uncertainty analysis, and sensitivity analysis as aids to numerical simulation. Limitations on numerical modeling in practical problems. Project work drawn from current problems in materials processing.  Professor Krane.					
Calumet Undergrad Curriculum Committee	Date Calumet Department Head	Date Calu	met School Dean	Date	
Fort Wayne Department Head	Date Fort Wayne School Dean	Apr	Wayne Chancellor Suttan .for Faculty .Sutton, Chair	Date #960 3/1/02	
Indianapolis Department Head	Date Indianapolis School Dean	Date Und	ergrad Curriculum Committee	Date	
Kesandoffhe 3.1	Date North Central Vice Chancellor  Date West Lafayette School Death	Date Date	APPROVED 04/18/02 Approved by Graduate Council  Multiple Conficil Secretary	5/15/02 Date	
MBh & y/10	Date Graduate Dean		Detra Sheets and Italian Registrar	/3 /a	
			•	1	