Office of the Registrar FORM 40 REV. 2/99

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

SCHOOL DOCUMENT NO. 15-00

GRADUATE COUNCIL DOCUMENT NO. ___00-20a

Fall DATE EFFECTIVE SOF 2001

EPARTMENT Mechanical Engineering	DATE SUBM	MITTED 10/2/00	O DATE EFFECTIVE SPF 2001			
INSTRUCTIONS: Please check the items below wh						
1. Deletion of a course V 2. New course with supporting docu 3. Add existing course offered at an 4. Change in course number at sam 5. Downgrading of course level 6. Upgrading of course level 7. Change in course title	nother campus 110 111 111 111 1111 1111 1111 1111 1	Change in cou Change in cou Change in ins Change in pre Change in des	structional hours			
EXISTING:	PROPOSED:		SEMESTERS OFFERED			
Subject Abbreviation Course Number	Subject Abbreviation ME Course Number 507	OF DESCRIPTION OF AN ONE OF STATE OF ST	Summer Fall Ag Winter Spring			
Lagar Proceeding						
Abbreviated Title Laser Processing	ce of the Registrar if omitted. (22 CHARACTERS C	ONLY)				
1. Fix 2. Va	T TYPE xed Credit: Cr. Hrs. 3 ariable Credit Range: Minimum Cr. Hrs (Check One) To Maximum Cr. Hrs. quivalent Credit: Yes No X nesis Credit: Yes No X	1. Pass/Not 2. Repeatal 3. Available 4. Designat 5. Special F 6. Approval	TRIBUTES: Check All That Apply. of Pass Only able for Credit e for Credit by Examination ttor Required Fees al Required for Enrollment Department Instructor			
Instructional Class FTE Instructional Type Hours Type Primary 3 Auto-tutorial Secondary Ind. Study Laboratory Clinic Lab. Prep. Experiential	Hours Type Thesis Observation Matis Based	Class FTE Hours	CAMPUS(ES) INVOLVED Calumet Fort Wayne Indianapolis North Central West Lafayette Off Campus			
COURSE DESCRIPTION (PREREQUISITES INCLUDED): Introduces ME 507 Laser Processing Sem. 1. Class 3, cr. 3 (Offered in alternate years). Prerequisite: ME 315 or equivalent. This course is intended to Introduce background knowledge in laser science and laser technology and fundamentals involved in laser processing and manufacturing. The following topics are discussed: laser fundamentals, industrial laser systems and processes, and the laser-induced thermal, thermo-mechanical, and thermo-acoustic effects. The course also discusses emerging areas of laser applications, such as microscale laser processing, ultrafast laser processing, and the related energy transport analyses. Laboratory and video demonstration sessions are used to enhance the overall understanding of the course materials. Professor X. Xu.						
Calumet Undergrad Curriculum Committee Date	Calumet Department Head	Date Calum	met School Dean Date			
Fort Wayne Department Head Date	Fort Wayne School Dean	Appr.	Wayne Chancellor for Faculty Sutton, Chair Date #929 10/11/00			
Indianapolis Department Head Date	Indianapolis School Dean		ergrad Curriculum Committee Date PROVED 4/19/01			
North Central Department Head Date Date Date And Holerand 9/26/0 St Lafayette Department Head Date Millian (Stay VII 4/9/1)	North Central Vice Changellor West Lafayette School Dean	16/00 7	Approved by Graduate Council Parily D. Heist 5/8/0/ Tuate Council Secretary Date			
Graduate Area Committee Convener Date	Graduate Dean	Date West	Jafavette Registrar			

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