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

SCHOOL DOCUMENT NO. 20-02

GRADUATE COUNCIL DOCUMENT NO.

EPARTMENT Materials Engineering

DATE SUBMITTED 2/19/03

DATE EFFECTIVE Fall 2003

INSTRUCTIONS: Please check the items below w			
Deletion of a course New course with supporting do Add existing course offered at a Change in course number at sa Downgrading of course level Upgrading of course level Change in course title	another campus ime level	Change in semesters Change in course cre Change in course att Change in instruction Change in prerequisi Change in description Transfer of course free	edit/type tributes nal hours tes n of course content
EXISTING:	PROPOSED:		SEMESTERS OFFERED
Subject Abbreviation MSE Course Number 335	Course Number		neck All That Apply. Summer Fall Ag Winter Spring
Proposed Title Variable Title Variable Title Variable Title Variable Title Ves No	Laboratory		<u>, , , , , , , , , , , , , , , , , , , </u>
Abbreviated Title Mat Character Lab Abbreviated title will be entered by the Off	ice of the Registrar if omitted. (22 CHARACTERS	ONLY)	
1.	DIT TYPE Fixed Credit: Cr. Hrs. 3 Variable Credit Range: Minimum Cr. Hrs (Check One) To Or Maximum Cr. Hrs. Equivalent Credit: Yes No Thesis Credit: Yes No	Pass/Not Pass Repeatable for Available for Cr Designator Rec Special Fees Approval Requi	Credit edit by Examination quired
Instructional Class FTE Instruction Type Hours Type Primary 2 Auto-tutor Secondary Ind. Study Laboratory 3 Clinic Lab. Prep. Experient	Hours Type ial Thesis Observation Matls Based	Class FTE Hours	CAMPUS(ES) INVOLVED Calumet Fort Wayne Indianapolis North Central West Lafayette Off Campus
COURSE DESCRIPTION (PREREQUISITES IN Sem. 1. Class 2, lab 3, cr. 3. Prerequisite: MSE 2. The principles of analytical methods for character spectroscopy and diffraction, atomic absorption, ediffraction, optical microscopy, and scanning elected.	235 or MSE 292 zation of materials for structure and composit mission spectroscopy, and mass spectrometry	on; optical microscopy, s . Laboratory experiment	canning electron microscopy, X-ray s in X-ray spectroscopy, X-ray
Calumet Undergrad Curriculum Committee Date	Calumet Department Head	Date Calumet Sch	nool Dean Date
Fort Wayne Department Head Date	Fort Wayne School Dean	Date Fort Wayne Apr.ror M.D.Zolto	Jhancflor Date Faculty #970 owski, Chair 3/11/03
Indianapolis Department Head Date	Indianapolis School Dean	Date Undergrad C	Curriculum Committee Date
North Central Department Head Date St Lafayette Department Head Date	03 Z. J. Jugy	3/5/03	ved by Graduate Council ouncil Secretary / Date
Graduate Area Committee Convener Date		Du	u Shut 3/19/03 ette Registrar Date

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DATE EFFECTIVE Fall 2003

INSTRUCTIONS: Please check the items	below which		est.	· · · · · · · · · · · · · · · · · · ·	
1. Deletion of a course 2. New course with support of the course offer the course offer the course offer the course offer the course of the co	ered at anotho er at same le level	er campus	9. Change 10. Change 11. Change 12. Change 13. Change		pe es urs ourse content
EXISTING:		PROPOSED:		s	EMESTERS OFFERED
Subject Abbreviation Course Number 340 Transport Phenomer		Subject Abbreviation Course Number	and the second of the second of	Summe	All That Apply. Fr Fall Ag Winter Spring
Proposed Title Yes No Y	erial (i) on a series en	aanda neem ka kiiga. Tarihda aabaa ayni ka ababan ka mara ah ababan ka kiin ka kiin ka ka ka ka ka ka ka ka ka		A. C. (1980)	
Abbreviated Title Transport Phenom Abbreviated title will be entered by		f the Registrar if omitted. (22 Cr	HARACTERS ONLY)		
CROSS LISTED COURSES	2. Varia	TYPE d Credit: Cr. Hrs. 3 able Credit Range: Minimum Cr. Hrs (Check One) To Or Maximum Cr. Hrs. valent Credit: Yes I sis Credit: Yes	1. P. 2. R 3. A 4. D 5. S	ass/Not Pass Only depeatable for Credit vailable for Credit b designator Required depecial Fees approval Required for	t by Examination or Enrollment artment
Type Hours Type Primary 3 Ai Secondary In Laboratory C	structional ype uto-tutorial d. Study linic xperiential	Class FTE Instruction Hours Type Thesis Observ Matts E	Hours ration	FTE	CAMPUS(ES) INVOLVED Calumet Fort Wayne Indianapolis North Central West Lafayette Off Campus
COURSE DESCRIPTION (PREREQUIS Sem. 1. Class 3, cr. 3. Prerequisite: MA 2 Mechanism and rates of heat, mass, and with phase transformations and chemical	266 momentum ti		ential energy, mass, a	and momentum bal	ances. Application to systems
Calumet Undergrad Curriculum Committee	Date	Calumet Department Head	Date	Calumet School De	ean Date
Fort Wayne Department Head	Date	Fort Wayne School Dean	Date	For Wayne Chine Apr. for Fac M.D.Zoltows	ulty allowed #970
Indianapolis Department Head	Date	Indianapolis School Dean	Date	Undergrad Curricu	
North Central Department Head	Date 2 44 02	North Central Vice Chancellor	Date 3/5/03	Date Approved by	r Graduate Council
st Lafayette Department Head	Date	West Lafayette School Deary	Date	Graduate Council	Secretary Date The by 3/19/03
Graduate Area Committee Convener	Date	Graduate Dean	Date	West Lafayette R	egistrar Date

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

GRADUATE COUNCIL DOCUMENT NO.

JEPARTMENT Materials Engineering

DATE SUBMITTED 2/19/03 DATE EFFECTIVE Spring '03

INSTRUCTIONS: Please check the items below which	h describe the purpose of this request. PURPOSE		
Deletion of a course New course with supporting docum Add existing course offered at ano Change in course number at same Downgrading of course level Change in course level Change in course title	8. hents 9. ther campus 10. level 11. 12.	Change in cou Change in cou Change in ins Change in pre Change in des	tructional hours
EXISTING:	PROPOSED:		SEMESTERS OFFERED
Subject Abbreviation MSE Course Number 350	Course Number		Check All That Apply. Summer Fall Ag Winter Spring
Proposed Title Thermodynamics of Materials Variable Title Yes No			
Abbreviated Title Thermodynamics of Mat Abbreviated title will be entered by the Office	of the Registrar if omitted. (22 CHARACTERS O	NLY)	
2. Va	TYPE ed Credit: Cr. Hrs. 3 riable Credit Range: Minimum Cr. Hrs (Check One) To Or Maximum Cr. Hrs. uivalent Credit: Yes No esis Credit: Yes No	 Pass/No Repeata Available Designa Special 	TRIBUTES: Check All That Apply. It Pass Only ble for Credit of for Credit by Examination tor Required Fees Il Required for Enrollment Department Instructor
Instructional Class FTE Instructional Type Hours Type Primary 3 Auto-tutorial Secondary Ind. Study Laboratory Clinic Experiential		Class FTE Hours	Calumet Fort Wayne Indianapolis North Central
COURSE DESCRIPTION (PREREQUISITES INCL Sem. 2. Class 3, cr. 3. Prerequisite: CHM 373 or co Fundamental laws of thermodynamics and their appli thermodynamic origins of phase diagrams.	nsent of instructor.	rium; reaction a	and phase equilibria; properties of solutions;
Calumet Undergrad Curriculum Committee Date	Calumet Department Head	Date Calu	imet School Dean Date
Fort Wayne Department Head Date	Fort Wayne School Dean	Apr	Wayne Charcellor Date #970 2. Zoltowski, Chair 3/11/03
Indianapolis Department Head Date	Indianapolis School Dean	Date Und	lergrad Curriculum Committee Date
North Central Department Head Date A C C C C C C C C C C C C C C C C C C	North Central Vice Chancellor	Date Date	e Approved by Graduate Council
est Lafayette Department Head Date	West Lafayette School Dean	<u> </u>	Debru Anub 3/9/63
Graduate Area Committee Convener Date	Graduate Dean	Date We	st Lafayette Registrar Date

Office of the Registrar FORM 40 REV. 2/99

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

SCHOOL DOCUMENT NO. 20-02

GRADUATE COUNCIL DOCUMENT NO.

DEPARTMENT Materials Engineering

DATE SUBMITTED 2/19/03

DATE EFFECTIVE Spring '04

INSTRUCTIONS: Please check the items below which	describe the purpose of this request.			
Deletion of a course New course with supporting documents. Add existing course offered at another supporting documents. Change in course number at same support of course level. Downgrading of course level. Change in course title.	ents per campus level	 Change in co Change in in Change in pi Change in pi Change in de 	structional hours	
EXISTING:	PROPOSED:		SEMESTERS OFFER	RED
Subject Abbreviation MSE Course Number 367	Subject Abbreviation Course Number		Check All That Apply. Summer Fall Ag Wint	er Spring
Proposed Title Variable Title Variable Title Ves No	pry			<u> </u>
Abbreviated Title Materials Process Lab Abbreviated title will be entered by the Office of		ONLY)		
2. Vari	TYPE ad Credit: Cr. Hrs. 3 lable Credit Range: Minimum Cr. Hrs (Check One) To Or Maximum Cr. Hrs. livalent Credit: Yes No sis Credit: Yes No	1. Pass/N 2. Repeat 3. Availab 4. Design 5. Specia 6. Approv	able for Credit le for Credit by Examination ator Required I Fees al Required for Enrollment Department	
Instructional Class FTE Instructional Type Hours Type Primary 2 Auto-tutorial Secondary Ind. Study Laboratory 3 Clinic Experiential	Class FTE Instructional Hours Type Thesis Observation Matls Based	Class FT Hours	Calumet Fort Wayne Indianapolis North Central West Lafayette	VOLVED
COURSE DESCRIPTION (PREREQUISITES INCLUSEM. 2. Class 2, lab 3, cr. 3. Prerequisite or corequisite This laboratory is intended as an intensive experience post-processing (work hardening, heat treatment, etc. measurements (e.g., powder size, compaction force, t final properties (e.g., hardness, ductility, strength, stiff	ite: MSE 240 and junior standing. in processing techniques used for ceramic of a metal, and preparation and extrusion emperature, grain size, molecular weight)	of a polymer are	the suggested processes. The	
	,			
Calumet Undergrad Curriculum Committee Date	Calumet Department Head	Date Ca	lumet School Dean	Date
Fort Wayne Department Head Date	Fort Wayne School Dean	Apr	t Wayne Chancellon Atomatic For Faculty Atomatic Zoltowski, Chair	Date #970 3/11/03
Indianapolis Department Head Date	Indianapolis School Dean		dergrad Curriculum Committee	Date
North Central Department Head Date	North Central Vice Chancellor	Date Da	te Approved by Graduate Council	
/est Lafayette Department Head Date	West Lafayette School Dean	Date Gr	aduate Council Secretary Why the 3	19 03
Graduate Area Committee Convener Date	Graduate Dean	Date W	est Lafayette Registrar	Date

Office of the Registrar FORM 40 REV. 2/99

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

SCHOOL DOCUMENT NO. 20-02

GRADUATE COUNCIL DOCUMENT NO.

__PARTMENT Materials Engineering

DATE SUBMITTED 2/19/03

DATE EFFECTIVE Fall 2003

INSTRUCTIONS: Please check the items	below which describ		his request.				
Deletion of a course New course with supporting supportin	ered at another cam per at same level level		8. 9. 10 11. 12 13	Change Change Change Change Change	in semesters offer in course credit/ty in course attribute in instructional hou in prerequisites in description of cor of course from on	pe es urs ourse content	er
EXISTING:	<u>P</u>	ROPOSED:			S	EMESTERS O	FERED
Subject Abbreviation MSE Course Number 430 Proposed Title Materials Processing	C	ourse Number	on		Summe		Winter Spring
Variable Title Yes No	e de				L	· ·	
Abbreviated Title Mat Process Desig Abbreviated title will be entered by			(22 CHARACTERS O		e =		
CROSS LISTED COURSES	(Chec	edit Range: um Cr. Hrs k One) To	or No	1. Pa 2. Re 3. Av 4. De 5. Sp	SE ATTRIBUTES: ISS/Not Pass Only Expeatable for Credit dilable for Credit besignator Required Decial Fees Department of Company of the Company of Company	t y Examination or Enrollment ortment	Ply.
Type Hours Type Primary 2 Au Secondary In Laboratory 3 Ci	<u>rpe</u> <u>Ho</u> uto-tutorial d. Study iinic	ass FTE	Instructional Type Thesis Observation Matls Based	Class Hours	ETE	CAMPUS(ES Calumet Fort Wayne Indianapolis North Centra West Lafaye Off Campus	Cable of Company A 1988 Table 1
COURSE DESCRIPTION (PREREQUISI Sem. 1. Class 2, lab 3, cr. 3. Prerequisite: Experience in the initiation and execution prepared by the student under the supervi	s: MSE 350, MSE 3	als project or stud	y involving research	ı, processii	ng, and design; a d of the semester.	written proposa	I on the project
Calumet Undergrad Curriculum Committee	Date Calum	et Department Head		Date	Calumet School De	ean	Date
Fort Wayne Department Head	Date Fort W	/ayne School Dean		Date	Fort Wayne Chance Apr. For Facu M.D. Zoltowsk	ilty de la constant d	Date #970 3/11/0:
Indianapolis Department Head	Date Indian	apolis School Dean		Date	Undergrad Curricu		Date
North Central Department Head	2802 (T	Central Vice Chance	rigo	Date 3/5/03 Date	Date Approved by		bate
Graduate Area Committee Convener	Date Gradu	uate Dean	<u> </u>	Date	West Lafayette Re	ffueb egistrar	3/19/03 Date

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SCHOOL DOCUMENT NO. 20-02

GRADUATE COUNCIL DOCUMENT NO.

EPARTMENT Materials Engineering

DATE SUBMITTED 2/19/03

DATE EFFECTIVE Spring '04

TOTAL	halam titul	describe the purpose of this request			
NSTRUCTIONS: Please check the items	pelow which	describe the purpose of this request. PURPOSE			
Deletion of a course New course with support Add existing course off Change in course num Downgrading of course Upgrading of course left Change in course title	ered at anoth ber at same l e level	ents ler campus evel	9. Change 10. Change 11. Change 12. Change	in semesters offered in course credit/type in cour se attributes in instructional hours in prerequisites in description of course of course from one dep	content t. to another
EXISTING:		PROPOSED:		SEMES	STERS OFFERED
Subject Abbreviation MSE Course Number 440	manus	Subject Abbreviation Course Number ign II	transcription of the second se	Summer	nt Apply. Fall Ag Winter Spring
Proposed Title		S CONTRACTOR CONTRACTO	euro, federales college de la descripción de la college de		
Abbreviated Title Mat Process Desi	gn II	of the Registrar if omitted. (22 CHARA	CTERS ONLY)		
CROSS LISTED COURSES	2. Vari	TYPE ad Credit: Cr. Hrs. 3 able Credit Range: Minimum Cr. Hrs (Check One) To Maximum Cr. Hrs. sivalent Credit: Yes No No	1. Pa 2. Re 3. Av 4. De 5. Sp	SE ATTRIBUTES: Check iss/Not Pass Only speatable for Credit allable for Credit by Exaction Required secial Fees oproval Required for Enro Departmen Instructor	mination Comment
Type Hours I Primary 1 A Secondary I Laboratory 6	nstructional 'ype Auto-tutorial nd. Study Clinic Experiential	Class FTE Instructions Hours Type Thesis Observatio Matts Base	<u>Hours</u>	Ca Fo Inc No	MPUS(ES) INVOLVED ilumet rt Wayne dianapolis orth Central est Lafayette ff Campus
COURSE DESCRIPTION (PREREQUIS Sem. 2. Class 1, lab 6, cr. 3. Prerequisit Continuation and completion of the mate Competence in technical writing is emph	e: MSE 335	, MSE 340, MSE 370 and MSE 430, or study initiated in MSE 430 and pre preparation of the dissertation.			esults and conclusions.
Calumet Undergrad Curriculum Committee	Date	Calumet Department Head	Date	Calumet School Dean	Da
Fort Wayne Department Head	Date	Fort Wayne School Dean	Date	Fort Wayne Chancellor Apr.for Faculty M.D.Zoltowski, Cha	poltensk
Indianapolis Department Head	Date	Indianapolis School Dean	Date	Undergrad Curriculum C	
North Central Department Head St Lafayette Department Head	Date	North Central Vice Chancellor West Lafayette School Dean	Date 3/5/03 Date	Date Approved by Grade	
Graduate Area Committee Convener	Date	Graduate Dean	Date	West Lafayette Registra	