Office of the Registrar FORM 40 REV. 2/99

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

SCHOOL DOCUMENT NO. EFD83-0(

GRADUATE COUNCIL DOCUMENT NO. 01-23a

DEPARTMENT Electrical & Computer Engineering

DATE SUBMITTED 8/20/2001 DATE EFFECTIVE 8/20/2001

				Spring 200		
INSTRUCTIONS: Please check the item		of this request.				
1. Deletion of a course 2. New course with sup 3. Add existing course of 4. Change in course nu 5. Downgrading of course 6. Upgrading of course 7. Change in course title	porting documents offered at another campus mber at same level se level level	8. Cha 9. Cha 10. Cha 11. Cha 12. Cha 13. Cha	inge in semesters offered inge in course credit/type inge in course attributes inge in instructional hours inge in prerequisites inge in description of course conte insfer of course from one dept. to a	course credit/type course attributes instructional hours prerequisites description of course content		
EXISTING:	PROPOSED:	- 0 5	SEMESTERS	OFFERED		
Subject Abbreviation Course Number Proposed Title Advanced VLSI De	Course Number 612 Summer Fall Ag Winter Sprir					
Proposed Title			towns towns.	<u> </u>		
Abbreviated Title Advanced VLSI		ed. (22 CHARACTERS ONLY)	***************************************			
CROSS LISTED COURSES **********************************	Variable Credit Range: Minimum Cr. Hrs (Check One) To Maximum Cr. Hrs. 3. Equivalent Credit: Yes	1. 2. 3.	URSE ATTRIBUTES: Check All That Pass/Not Pass Only Repeatable for Credit Available for Credit by Examinati Designator Required Special Fees Approval Required for Enrollmen Department Instructor	on		
Type Hours Primary 3 // Secondary Laboratory	nstructional Class FTE Ype Hours Auto-tutorial nd. Study Clinic Experiential	Instructional Class Type Hours Thesis Observation Matls Based		lis htral yette		
COURSE DESCRIPTION (PREREQUIS Prerequisite: EE 606 or equivalent, Device physics of advanced transistors. I Review of metal oxide semiconductor (M metal oxide semiconductor field-effect tra (nanoscale) MOSFETs. Limits of silicon of bulk MOSFET. Computer simulation em Professor Lundstrom.	Process, device, circuit, and systems OS) fundamentals along with key pro- nsistors (MOSFETs) including device levice technology and key issues in the	cess and circuit concepts. Se scaling considerations. De ne continuing miniaturization	Short channel effects in sub-micro evice physics and technology issue n of devices. Alternative device st	n channel length es for sub-100 nm		
Calumet Undergrad Curriculum Committee	Date Calumet Department Hea	d Date	e Calumet School Dean	Date		
Fort Wayne Department Head	Date Fort Wayne School Dean	Date	Fort Wayne Chancellor Appr.for Faculty C,D.Sutton,Chair	Date #949 9/5/01		
Indianapolis Department Head	Date Indianapolis School Dean	Date	Undergrad Curriculum Committee APPROVED 11/15/			
North Central Department Head /est Lafayette Department Head	Date North Central Vice Change Date West Lafayette School De	edilor Date	-			
MBh 11/1	Tlo/	y Sanc	Debra She	ets 7/5/0		
Graduate Area Committee Convener	Date Graduate Dean	Date	e West Lafayette Registrar	Date		

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