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

SCHOOL DOCUMENT NO. EFD80-0(

GRADUATE COUNCIL DOCUMENT NO. _____

DEPARTMENT Electrical & Computer Engineering   DATE SUBMITTED 11/5/2001   DATE EFFECTIVE 1/7/2002 Summer 2002

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

PURPOSE

1. Deletion of a course	8. Change in semesters offered
2. New course with supporting documents	9. Change in course credit/type
3. Add existing course offered at another campus	10. Change in course attributes
4. Change in course number at same level	11. Change in instructional hours
5. Downgrading of course level	✔ 12. Change in prerequisites
6. Upgrading of course level	✔ 13. Change in description of course content
7. Change in course title	14. Transfer of course from one dept. to another

EXISTING: PROPOSED: SEMESTERS OFFERED

Subject Abbreviation EE ECE   Subject Abbreviation _____   Check All That Apply.
Course Number 362   Course Number _____   Summer Fall Ag Winter Spring
                                                                                       ✔   ✔   ✔
Proposed Title Microprocessor Systems and Interfacing
Variable Title   Yes [ ]   No [✔]

Abbreviated Title Micropro Sys & Intrfac
    Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

CROSS LISTED COURSES	CREDIT TYPE	COURSE ATTRIBUTES: Check All That Apply.
	1. Fixed Credit: Cr. Hrs. 4	1. Pass/Not Pass Only
	2. Variable Credit Range:	2. Repeatable for Credit
	Minimum Cr. Hrs _____	3. Available for Credit by Examination
	(Check One) To [ ] Or [ ]	4. Designator Required
	Maximum Cr. Hrs. _____	5. Special Fees
	3. Equivalent Credit: Yes [ ] No [✔]	6. Approval Required for Enrollment
	4. Thesis Credit: Yes [ ] No [✔]	Department ✔
		Instructor

Instructional Type	Class Hours	FTE	Instructional Type	Class Hours	FTE	Instructional Type	Class Hours	FTE	CAMPUS(ES) INVOLVED
Primary	3		Auto-tutorial			Thesis			Calumet
Secondary			Ind. Study			Observation			Fort Wayne
Laboratory	3		Clinic			Matls Based			Indianapolis
Lab. Prep.			Experiential						North Central
									West Lafayette ✔
									Off Campus

COURSE DESCRIPTION (PREREQUISITES INCLUDED):
Prerequisite: CS 156 or equivalent programming experience and EE 270; prerequisite or corequisite: EE 255
Introduction to basic computer organization, microprocessor instruction sets, assembly language programming techniques, design of digital and analog interfaces, and microprocessor system design considerations. Practical hands-on experience with microprocessor software applications and interfacing techniques. Topics include design and implementation of a simple computer, a detailed study of a particular microcontroller architecture and instruction set, assembly language programming techniques, system control signals and I/O structure, memory system design, I/O port design and handshaking protocols, interrupts and handlers. On-chip peripheral subsystems: Serial communication controllers, timers, pulse-width modulation generators, analog-to-digital converters.

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 C.D. Sutton Appr. for Faculty #958 C.D.Sutton,Chair 2/1/02
Indianapolis Department Head Date	Indianapolis School Dean Date	Undergrad Curriculum Committee Date
North Central Department Head Date	North Central Vice Chancellor Date	Date Approved by Graduate Council
West Lafayette Department Head 11/9/00 Date	West Lafayette School Dean 4 Feb 02 Date	Graduate Council Secretary Debra Shutt 2/6/02 Date
Graduate Area Committee Convener Date	Graduate Dean Date	West Lafayette Registrar Date

OFFICE OF THE REGISTRAR

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☐ 6. Upgrading of course level	☑ 13. Change in description of course content
☐ 7. Change in course title	☐ 14. Transfer of course from one dept. to another

EXISTING: PROPOSED: SEMESTERS OFFERED

Subject Abbreviation EE   Subject Abbreviation _____   Check All That Apply.
Course Number 477   Course Number _____

Summer	Fall	Ag Winter	Spring
☐	☑	☐	☑

Proposed Title Digital Systems Senior Project
Variable Title   Yes ☐   No ☑

Abbreviated Title Dig Systems Sr Project
Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

CROSS LISTED COURSES

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. Repeatable for Credit
3. Available for Credit by Examination
4. Designator Required
5. Special Fees
6. Approval Required for Enrollment
   Department ☑
   Instructor

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Secondary			Ind. Study			Observation			Fort Wayne
Laboratory	3		Clinic			Matls Based			Indianapolis
Lab. Prep.			Experiential						North Central
									West Lafayette ☑
									Off Campus

COURSE DESCRIPTION (PREREQUISITES INCLUDED):
Prerequisite: EE 362
A structured approach to the development and integration of embedded microcontroller hardware and software that provides senior-level students with significant design experience applying microcontrollers to a wide range of embedded systems (e.g., instrumentation, process control, telecommunications, intelligent devices, etc.). The primary objective is to provide practical experience developing integrated hardware and software for embedded microcontroller systems in an environment that models one which students will most likely encounter in industry.

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
				Appr.for Faculty	#958
				C.D.Sutton,Chair	2/1/02

Indianapolis Department Head	Date	Indianapolis School Dean	Date	Undergrad Curriculum Committee	Date

North Central Department Head	Date	North Central Vice Chancellor	Date	Date Approved by Graduate Council

West Lafayette Department Head   Date   West Lafayette School Dean   20 Feb 02   Date

Graduate Area Committee Convener	Date	Graduate Dean	Date	West Lafayette Registrar Debra Sheets 2/20/02	Date

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