Office of the Registrar FORM 40 REV. 7/05

DEPARTMENT ECE

PURDUE UNIVERSITY

Print Form

REQUEST FOR ADDITION, EXPIRATION. OR REVISION OF A COURSE

EFFECTIVE SESSION Fall 2006 INSTRUCTIONS: Please check the items below which describe the purpose of this request. New course with supporting documents 7. Change in course attributes 2. Add existing course 8. Change in instructional hours 3. Expiration of a course Change in course description 4. Change in course number 10. Change in course requisites 5. Change in course title 11. Change in semesters offered Change in course credit/type 12. Transfer from one department to another PROPOSED: TERMS OFFERED **EXISTING:** Check All That Apply: Subject Abbreviation ECE Subject Abbreviation Summer Spring Fall 🔀 Course Number Course Number 573 CAMPUS(ES) INVOLVED Long Title Compilers and Translator Writing Systems Ft. Wayne Indianapolis Short Title N. Central W.Lafayette Cont Ed Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY) **Tech Statewide CREDIT TYPE** COURSE ATTRIBUTES: Check all That Apply 7. Registration Approval Type 1.Fixed Credit: Cr. Hrs. Pass/Not Pass Only Department Instructor Variable Credit Range × 2. Satisfactory/Unsatisfactory Only Minimum Cr. Hrs 8. Variable Title 3. Repeatable (Check One) To Maximum repeatable credit: 9. Remedial Maximum Cr. Hrs 10. Honors 4. Credit by Examination 5. Designator Required **Equivalent Credit:** Yes No 11. Full Time Privilege Thesis Credit: 6. Special Fees 12. Off Campus Experience Yes No Instructional Minutes Meetings Weeks % of Credit Delivery Method Delivery Medium(Audio,Internet, Type Per Mtg Per Week Offered Allocated (Asyn. Or Syn) Live, Text-Based, Video) Lecture Cross-Listed Courses Recitation Presentation Laboratory Lab Prep Studio Distance Clinic Experiential Research Ind. Study Pract/Observ COURSE DESCRIPTION (INCLUDE REQUISITES): 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 Indianapolis Department Head Date Indianapolis School Dean Date Undergrad Curriculum Committee Date North Central Department Head Date North Central Chancellor 5/12/06 West Lafayette Department Head Date West Lafayette College/School Dean Date Graduate Council Area Committee Chair Date Graduate Dean Date West Lafayette Registrar

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TO: The Faculty of the College of Engineering

FROM: The Faculty of the School of Electrical and Computer Engineering

RE: Title Changes to Graduate-Level Course of ECE 573

The faculty of the School of Electrical and Computer Engineering has approved the following title changes of a graduate-level course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

From: ECE 573 Compilers And Translator Writing Systems

To: ECE 573 Optimizing Compilers

ECE 573 Optimizing Compilers

Class 3, Lab 0, Credit 3

Sem. 1

Prerequisites: none

Course Description: This course presents the concepts and techniques to design and implement an optimizing compiler. The course includes topics in the use of tools for parsing and lexical analysis, semantic routines, program parallelization and scalar optimizations.

Reason: The title of this course was changed to better reflect the evolving course content.

Course History: The course has been and continues to be offered every fall.

Mark J.T. Smith

Professor and Head

APPROVED FOR THE FACULTY
OF THE SCHOOLS OF ENGINEERING
BY THE COMMITTEE ON
FACULTY RELATIONS

CFR Minutes

Date

Chairman CFR

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Text: Fischer and LeBlanc, Crafting a Compiler with C, Benjamin/Cummings, 1991, ISBN 0-8053-2166-7. Course notes and research papers will be used. Background texts: the instructor will supply papers.

Course Outcomes:

A student who successfully fulfills the course requirements will have demonstrated an ability to understand and use

- i. An understanding of how to use parser generator tools and lexical analysis tools to parse a program source;
- ii. An understanding of the terminology and techniques of semantic processing, code generation, and optimization;
- iii. Third outcome an ability to design and implement a compiler, translator or interpreter for a small language based on their knowledge of (i) and (ii).

Assessment Methods:

There will be at least one midterm and a final exam. 50% of the final grade will reflect the performance on a class project that each student will propose and conduct.

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Office of the Registrar FORM 40G REV. 1/07

PURDUE UNIVERSITY REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF A GRADUATE COURSE (500-600 LEVEL)



DEPARTMENT ECE			EFFECTIVE SE	SSION F07		\neg
INSTRUCTIONS: Please check	k the items below which	describe the purpose of the	his request.			=
1. New cou	urse with supporting a sting course offered a on of a course in course number in course title in course credit/type	documents (complete at another campus	proposal form)		7. Change in course attributes 8. Change in instructional hours 9. Change in course description 10. Change in course requisites 11. Change in semesters offered 12. Transfer from one department to another	
PROPOSED:		EXISTING:			TERMS OFFERED	
Subject Abbreviation Course Number Long Title Coptimizing Compi		Course Number	ECE	573	Check All That Apply: Summer Fall Spring CAMPUS(ES) INVOLVED Calumet N. Central Cont Ed Tech Statewide Ft. Wayne W. Lafayette Indianapolis	
		Registrar if omitted. (22 CHARAC)	TERS ONLY)			
CREDIT TYF 1. Fixed Credit: Cr. Hrs. 2. Variable Credit Range: Minimum Cr. Hrs (Check One) To Maximum Cr. Hrs 3. Equivalent Credit: Yes 4. Thesis Credit: Yes	Or	Pass/Not Pass Only Satisfactory/Unsatisfactor Repeatable Maximum Repeatable Credit by Examination Designator Required Special Fees	ry Only	7. Registrat 8. Variable 9. Remedia 10. Honors 11. Full Time	dial	
•	inutes Meetings Per er Mtg Week	Weeks % of Credit Offered Allocated	Delivery Method (Asyn. Or Syn.)		y Medium (Audio, ve, Text-Based, Video) Cross-Listed Courses	
Recitation Presentation Laboratory Lab Prep Studio Distance Clinic Experiential Research Ind. Study Pract/Observ COURSE DESCRIPTION (INCLUC From: ECE 573 Con To: ECE 573 Optimi	npilers And Tra		Systems			
Calumet Department Head	Date	Calumet School Dean		Date	Calumet Undergrad Curriculm Committee i	Date
Fort Wayne Department Head	Date	Fort Wayne School Dean		Date	Fort Wayne Chancellor Michael Sattoriki 3/9/0	Date
Indianapolis Department Head	Date	Indianapolis School Dean		Oate	Undergrad Curricum Committee	Date
North Central Department Head	Date	North Central Chancellor	This	1767	Date Approved by Graduate Council	2-10
West Lafayette Department Head	Date	West Lafayette Coffege/Sch	ool Dean			Date
Graduate Area Committee Conven-	er Date	Graduate Dean		Date	West Lafayette Registrar	Date

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