Office of the Registrar FORM 40 REV. 11/09

PURDUE UNIVERSITY REQUEST FOR ADDITION, EXPIRATION,

OR REVISION OF AN UNDERGRADUATE COURSE (10000-40000 LEVEL)

Print Form

FFD 34-111

DEPARTMENT School of Electrical and Comput	er Engineering (EFD 34-10)	EFFECTIVE SESSION Fall 2010	210 31 10			
INSTRUCTIONS: Please check the items below which describe the purpose of this request.						
1. New course with supporting do 2. Add existing course offered at a 3. Expiration of a course 4. Change in course number 5. Change in course title 6. Change in course credit/type PROPOSED:	cuments	7. Change in course 8. Change in instruc 9. Change in course X 10. Change in course 11. Change in semes	e description requisites ters offered (department head signature only) e department to another TERMS OFFERED			
Subject Abbreviation	Subject Abbreviati	ion ECE	Check All That Apply: Summer Fall Soring			
Course Number	Course Number	36800	CAMPUS(ES) INVOLVED			
Long Title Data Structures			Calumet N. Central			
Short Title Data Structures			Ft. Wayne XW. Lafavette			
	d by the Office of the Registrar if	omitted. (30 CHARACTERS ONLY)	- Indianapolis			
CREDIT TYPE 1.Fixed Credit: Cr. Hrs. 2.Variable Credit Range: Minimum Cr. Hrs (Check One) To Or Maximum Cr. Hrs. 3.Equivalent Credit: Yes No Schedule Type Minutes Per Mtg Week Lecture Recitation Jasentation Laboratory Lab Prep Studio Distance Clinic Experiential Research Ind. Study Pract/Observ COURSE DESCRIPTION (INCLUDE REQUISITE) Prerequisites: ECE 26400 Minimum Grade of C	Offered Allocated	Only Dep 7. Variable Titl 8. Honors 9. Full Time	tion Approval Type partment Instructor e			
*COURSE LEARNING OUTCOMES: See attachment.						
Calumet Department Head Date	Calumet School Dean	Date				
Fort Wayne Department Head Date	Fort Wayne School Dean	Date				
ndianapolis Department Head Date	Indianapolis School Dean	Date				
Onth Central Department Head Date 1	North Central Chancellor West Lafayette College/School Deal	Date Date West L	afayette Registrar Date			

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Office of the Registrar

PURDUE UNIVERSITY REQUEST FOR ADDITION, EXPIRATION,

Print Form

OR REVISION OF AN UNDERGRADUATE COURSE FORM 40 REV. 11/09 (10000-40000 LEVEL) EFD 34-10 DEPARTMENT School of Electrical and Computer Engineering (EFD 34-10) **EFFECTIVE SESSION Fall 2010** INSTRUCTIONS: Please check the items below which describe the purpose of this request. New course with supporting documents Change in course attributes (department head signature only) 2. Add existing course offered at another campus 8. Change in instructional hours 3. Expiration of a course 9. Change in course description 4. Change in course number Change in course requisites 10. 5. Change in course title Change in semesters offered (department head signature only) 6. Change in course credit/type 12. Transfer from one department to another PROPOSED: **EXISTING: TERMS OFFERED** Subject Abbreviation Check All That Apply: Subject Abbreviation ECE Fall Summer Spring Course Number Course Number 36800 **CAMPUS(ES) INVOLVED** Long Title Data Structures Calumet N. Central Cont Ed Short Title Data Structures Tech Statewide Ft. Wayne XW. Lafayette Indianapolis Abbreviated title will be entered by the Office of the Registrar if omltted. (30 CHARACTERS ONLY) COURSE ATTRIBUTES: Check All That Apply 1.Fixed Credit: Cr. Hrs. 1. Pass/Not Pass Only 2. Variable Credit Range: 6. Registration Approval Type 2. Satisfactory/Unsatisfactory Only Minimum Cr. Hrs Department Instructor (Check One) 3. Repeatable Or 7. Variable Title Maximum Repeatable Credit: Maximum Cr. Hrs. 8. Honors 4. Credit by Examination 3.Equivalent Credit: Yes No 9. Full Time Privilege 5. Special Fees 10. Off Campus Experience ScheduleType Minutes Meetings Per Weeks % of Credit Per Mtg Offered Allocated **Cross-Listed Courses** Lecture Recitation rsentation oratory Lab Prep Studio Distance Clinic **Experiential** Research Ind. Study Pract/Observ COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS): Prerequisites: ECE 26400 Minimum Grade of C *COURSE LEARNING OUTCOMES: See attachment Calumet Department Head Date Calumet School Dean Date Fort Wayne Department Head Date Fort Wayne School Dean Date Indianapolis Department Head Indianapolis School Dean Date Date North Central Department Head Date North Central Chancellor Date D Date West Lafayette College/School Dean West Lafayette Registrar Date

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TO:

The Faculty of the College of Engineering

FROM:

The Faculty of the School of Electrical and Computer Engineering

RE:

Change to Existing Undergraduate Course: ECE 36800, Data Structures, change

in requisites.

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

From:

ECE 36800 Data Structures

Sem. Fall, Spring; Cr. 3; Lecture 3.

Prerequisites: ECE 26400 and ECE 36400 [may be taken concurrently]
Restrictions: Must be enrolled in one of the following: School of Electrical &

Computer Engineering and School of Biomedical Engineering

Description: Provides insight into the use of data structures. Topics include stacks,

queues and lists, trees, graphs, sorting, searching, and hashing.

To:

ECE 36800 Data Structures

Sem. Fall, Spring; Cr. 3; Lecture 3.

Prerequisites: ECE 26400 Minimum Grade of C

Restrictions: Must be enrolled in one of the following: School of Electrical &

Computer Engineering, School of Biomedical Engineering

Description: Provides insight into the use of data structures. Topics include stacks,

queues and lists, trees, graphs, sorting, searching, and hashing.

Reason:

This course is part of the Core Curriculum for the BSCmpE degree. Subsets of Core Curriculum courses serve as prerequisites for most upper division ECE electives. In addition, a degree requirement for all ECE students is to achieve a GPA in all majorarea (ECE) courses of at least a 2.0. Therefore, in order to ensure that ECE students are as well prepared as possible for upper division ECE courses, as well as to facilitate their achievement of the minimum major-area GPA of 2.0, a minimum grade requirement in the key ECE prerequisite course is being proposed.

on behalf of V. Balakrishnan Interim Head Sonool of Electrical and Computer Engineering APPROVED FOR THE FACULTY
OF THE SCHOOLS OF ENGINEERING
BY THE ENGINEERING
CURRICULUM COMMITTEE

ECC Minutes

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Chairman ECC_

R Cipra

School of Electrical and Computer Engineering (EFD 34-10)

Course Learning Outcomes:

- i. an understanding of various basic data structures, including stacks, queues, and trees.
- ii. an ability to analyze time complexity and space complexity of algorithms.
- iii. an ability to apply appropriate sorting and searching algorithms for a given application.
- iv. an ability to apply graph theoretic techniques, data structures and algorithms for problem solving.
- v. an ability to design and implement appropriate data structures and algorithms for engineering applications.