Office of the Registrar FORM 40 REV. 11/09	REQUEST FOR A OR REVISION OF AN U	JE UNIVERSITY ADDITION, EXPIRATION, UNDERGRADUATE COURSE 0-40000 LEVEL)	EFO 35-10.
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PROPOSED:	EXISTING:		TERMS OFFERED
Subject Abbreviation ECE	Subject Abbreviation	SECE	Check All That Apply:
Course Number 30862	Course Number	46200	Summer Fall Spring CAMPUS(ES) INVOLVED
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Short Title OO Pregramming in GH-and Java	a Objorient p	Prog C++ *Java	Cont Ed Tech Statewide Ft. Wayne XW, Lafayette
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(Check One) To Or	3. Repeatable	7. Variable Ti	ille
Maximum Cr. Hrs.	Maximum Repeatable Credit: 4. Credit by Examination	8. Honors	o Ravillago
3.Equivalent Credit: Yes No No	Special Fees	9. Full Time	e Privilege mpus Experience
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COURSE DESCRIPTION (INCLUDE REQUISITES Prerequisites: ECE 26400 Restrictions: Must be enrolled in the School of Eli			
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COURSE LEARNING OUTCOMES:			
See attachment.			
alumet Department Head Date	Calumet School Dean	Date	
ort Wayne Department Head Date	Fort Wayne School Dean	Date	
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orth Central Department Head Date	North Central Chancellor	Jan 7/25/11	andrashager.
est/Larayette Department Head Date	West Lalayette College/School Dean	Date West L	Lafayette Registrar

OFFICE OF THE REGISTRAR

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Office of the Registrar	REQUEST FO	OR ADDITION, EXPIRATION,	Pilin Form
FORM 40 REV. 11/09		AN UNDERGRADUATE COURSE 0000-40000 LEVEL)	FFD 35-10
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DEPARTMENT School of Electrical and Comp	to which a state to the state of a separation of the second and a second second and second se	EFFECTIVE SESSION Fall 2011	and a proper special color of the property of
INSTRUCTIONS: Please check line items bet		of this request.	
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PROPOSED:	existing:		TERMS OFFERED Check All That Apply:
Subject Abbreviation ECE	Subject Abbrevia	alion ECE	Summer Fall Spring
Course Number 30662	Course Number	46200	CAMPUS(ES) INVOLVED
Long Title Object-Oriented Programming in	C++ and Java	E N'E BY NO CON TRANSMENT OF BARRACE PROCESS THE WORLD AND SHOULD BE SEED OF SERVICE BY THE SERVICE AND SHOWN	Calumet N. Central Cont Ed Tech Statewide
Short Title OO Programming in C++ and Jav	/a		Ft. Wayne XW, Lalayette
Abbreviated title will be enter	ed by the Office of the Registrar	if omitted. (30 CHARACTERS ONLY)	[[matarepoile
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2. Variable Credit Range:	1. Pass/Not Pass Only).***	on Approval Type Instructor
Minimum Cr. Hrs. Check One) →To Or	Salisfactory/Unsalisfactory Repealable	7. Variable Tille	
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Pract/Observ COURSE DESCRIPTION (INCLUDE REQUISITE	S/DESTRIC'CIONSI:		
Prereoulsites: ECE 26400		,	
Restrictions: Must be enrolled in the School of E	lectrical and Computer Engineer	ring.	
COURSE LEARNING OUTCOMES:			
See attachment.			
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ECE 30842

Engineering Faculty Document No. 35-10 February 10, 2011 Page 1 of 1

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 46200, Object-Oriented

Programming Using C++: Change in course number and 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 46200 Object-Oriented Programming Using C++ and Java

Sem. Fall; Cr. 3; Lecture 3.

Prerequisites: ECE 36800 [may be taken concurrently] and ECE 26400

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

Engineering

Description: C++ and Java programming languages, including classes, inheritance, encapsulation, polymorphism, class derivation, abstract classes, interfaces, static class members, object construction and destruction, namespaces, exception handling, function overloading and overriding, function name overload resolution, container classes, and template classes.

To:

ECE 30862 Object-Oriented Programming Using C++ and Java

Sem. Fall; Cr. 3; Lecture 3. **Prerequisites:** ECE 26400

Restrictions: Must be enrolled in: School of Electrical & Computer Engineering Description: C++ and Java programming languages, including classes, inheritance, encapsulation, polymorphism, class derivation, abstract classes, interfaces, static class members, object construction and destruction, namespaces, exception handling, function overloading and overriding, function name overload resolution, container classes, and template classes.

Reason:

The Computer Engineering faculty in ECE has determined that ECE 26400 is sufficient as the only prerequisite for ECE 46200. This is supported by the performance of students for whom ECE 36800 has been waived as a requisite. The course number is being change to better reflect the level of the course.

on behalf of V. Balakrishnan, Head

School of Electrical and Computer Engineering

ABBROVED FOR THE EAGULTY
OF THE SCHOOLS OF ENGINEERING
BY THE ENGINEERING
CURRICULUM COMMITTEE

ECC Minutes

Date

Chairman ECC

Form 40 Attachment

School of Electrical and Computer Engineering (EFD 35-10)

Course Learning Outcomes:

- i. an understanding of the concepts of inheritance and polymorphism.
- ii. an ability to overload operators in C++.
- iii. an understanding of the difference between function overloading and function overriding.
- iv. an ability to incorporate exception handling in object-oriented programs.
- v. an ability to use template classes and the STL library in C++.
- vi. an ability to write object-oriented programs of moderate complexity in C++.
- vii. an ability to write object-oriented programs of moderate complexity in Java.
- viii. an ability to write programs with multiple threads and use synchronization among threads.

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PURDUE UNIVERSITY 1-Print Form REQUEST FOR ADDITION, EXPIRATION, Office of the Registrar OR REVISION OF AN UNDERGRADUATE COURSE FORM 40 REV. 11/09 EF035-10 (10000-40000 LEVEL) 201220 Spring 2012 EFFECTIVE SESSION Fall 2011-DEPARTMENT School of Electrical and Computer Engineering (EFD 35-10) 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) Change in instructional hours 2. Add existing course offered at another campus 9. Change in course description 3. Expiration of a course Change in course requisites 4, Change in course number 10, 11. Change in semesters offered (department head signature only) Change in course title Transfer from one department to another Change in course credit/type TERMS OFFERED EXISTING: PROPOSED: Check All That Apply: Subject Abbreviation/ECE Subject Abbreviation ECE Fall Spring Summer Course Number 30862 Course Number 46200 CAMPUS(ES) INVOLVED Calumet N. Central Long Title Object-Oriented Programming in C++ and Java Cont Ed Tech Slatewide Ft. Wayne XW. Lafayette Short Title OO Programming in G++ and Ja-Orient Proa Indianapolls Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY) COURSE ATTRIBUTES: Check All That Apply 1.Fixed Credit: Cr. Hrs. 1. Pass/Not Pass Only 6. Registration Approval Type 2.Variable Credit Range: Instructor Department 2. Satisfactory/Unsatisfactory Only Minimum Cr. Hrs 3. Repeatable 7. Variable Title (Check One) Maximum Repeatable Credit: 8. Honors Maximum Cr. Hrs. 4. Credit by Examination 9. Full Time Privilege 3,Equivalent Credit: Yes No 5. Special Fees 10. Off Campus Experience Minutes Meetings Per % of Credit Weeks ScheduleType Cross-Listett ourses Allocated Per Mtg Offered ۳. ا ਰ Lecture Recliation -(**(**) Presentation Laboratory Lab Prep - T Studio Distance Cilnic Experiential Research Ind. Study Pract/Observ COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS): Prerequisites: ECE 26400 Restrictions: Must be enrolled in the School of Electrical and Computer Engineering, *COURSE LEARNING OUTCOMES: See attachment. Calumet School Dean Date Calumet Department Head Date Date Fort Wayne School Dean Fort Wayne Department Head Date Dale Indianapolis School Dean Date Indianapolis Department Head

OFFICE OF THE REGISTRAR

West Lafayette Registrar

North Central Chancellor

West Lalayette College/School Dean

Date

Date

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	PURD	UE UNIVERSITY			romanuiros VVI
Office of the Registrar		ADDITION, EXPIRAT	COHRSE	•	T. Print Join
FORM 40 REV. 11/09		0-40000 LEVEL)	L.	FD35	10
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PROPOSED:	EXISTING:	=0=			eck All That Apply:
Subject Abbreviation ECE	Subject Abbreviation			(``) Summer	Fall Spring
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*COURSE LEARNING OUTCOMES:					
See attachment.					•
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46200

Engineering Faculty Document No. 35-10 February 10, 2011 Page 1 of 1

TO:

The Fagulty of the College of Engineering

FROM:

The Faculty of the School of Electrical and Computer Engineering

RE:

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From:

ECE 46200 Object-Oriented Programming Using C++ and Java

Sem. Fall; Cr. 3; Lecture 3.

Prerequisites: ECE 36800 [may be taken concurrently] and ECE 26400

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

Engineering

Description: C++ and Java programming languages, including classes, inheritance, encapsulation, polymorphism, class derivation, abstract classes, interfaces, static class members, object construction and destruction, namespaces, exception handling, function overloading and overriding, function name overload resolution, container classes, and template classes.

To:

ECE 30862 Object-Oriented Programming Using C++ and Java

Sem. Fall; Cr. 3; Lecture 3. Prerequisites: ECE 26400

Restrictions: Must be enrolled in: School of Electrical & Computer Engineering Description: C++ and Java programming languages, including classes, inheritance, encapsulation, polymorphism, class derivation, abstract classes, interfaces, static class members, object construction and destruction, namespaces, exception handling, function overloading and overriding, function name overload resolution, container classes, and template classes.

Reason:

The Computer Engineering faculty in ECE has determined that ECE 26400 is sufficient as the only prerequisite for ECE 46200. This is supported by the performance of students for whom ECE 36800 has been waived as a requisite. The course number is being change to better reflect the level of the course.

on behalf of V. Balakrishnan, Head

School of Electrical and Computer Engineering

APPROVED FOR THE EAGULTY OF THE SCHOOLS OF ENGINEERING BY THE ENGINEERING CURRICULUM COMMITTEE

ECC Minutes

Chairman ECC

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Form 40 Attachment

School of Electrical and Computer Engineering (EFD 35-10)

Course Learning Outcomes:

- i. an understanding of the concepts of inheritance and polymorphism.
- ii. an ability to overload operators in C++.
- iii. an understanding of the difference between function overloading and function overriding.
- iv. an ability to incorporate exception handling in object-oriented programs.
- v. an ability to use template classes and the STL library in C++.
- vi. an ability to write object-oriented programs of moderate complexity in C++.
- vii. an ability to write object-oriented programs of moderate complexity in Java.
- viii. an ability to write programs with multiple threads and use synchronization among threads.