PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF AN UNDERGRADUATE COURSE
(10000-40000 LEVEL)

EFFECTIVE SESSION Fall 2010

DEPARTMENT School of Electrical and Computer Engineering (EFD 33-10)

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

☑ 1. New course with supporting documents
☐ 2. Add existing course offered at another campus
☐ 3. Expiration of a course
☒ 4. Change in course number
☐ 5. Change in course title
☐ 6. Change in course credit/grade type
☐ 7. Change in course attributes (department head signature only)
☐ 8. Change in instructional hours
☐ 9. Change in course description
☐ 10. Change in course requirements
☐ 11. Change in semesters offered (department head signature only)
☐ 12. Transfer from one department to another

PROPOSED:

Subject Abbreviation: ECE
Course Number: 36200
Long Title: Microprocessor Systems and Interfacing
Short Title: Micro Systems and Interfacing

EXISTING:

Subject Abbreviation: ECE
Course Number: 36200
Long Title: Microprocessor Systems and Interfacing
Short Title: Micro Systems and Interfacing

TERMS OFFERED:
Check All That Apply:
☐ Summer  ☐ Fall  ☐ Spring

CAMPUS(ES) INVOLVED:
☐ Calumet  ☐ N. Central
☐ Cont Ed  ☐ Tech Statewide
☐ Ft. Wayne  ☐ W. Lafayette
☐ Indianapolis

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 characters only)

CREDIT TYPE

1. Fixed Credit: Cr. Hrs. ____________________________
2. Variable Credit Range: Minimum Cr. Hrs. ____________________________
☐ (Check One) To Or ☐
3. Equivalent Credit: Yes ☐ No ☐

COURSE ATTRIBUTES: Check All That Apply

1. Pass/No Pass Only
☐ 2. Satisfactory/Unsatisfactory Only
☐ 3. Repeatability: Maximum Repeatable Credit: ☐
☐ 4. Credit by Examination
☐ 5. Special Fees
☐ 6. Registration Approval Type Department ☐ Instructor ☐
☐ 7. Variable Title
☐ 8. Honors
☐ 9. Full Time Privilege
☐ 10. Off Campus Experience

Schedule Type: Minutes Per Mgr Meetings Per Week Weeks Offered % of Credit Allocated

Lecture
Presentation
Laboratory
Lab Prep
Studio
Distance
Clinic
Experiential
Research
Ind. Study
Prac/Observ

CROSS-LISTED COURSES:

Prerequisite: ECE 27000 Minimum Grade of C and (Undergraduate level CS 15500 or ENGR 11700) and ECE 25500 [may be taken concurrently]

*COURSE LEARNING OUTCOMES:

See attachment.

Calumet Department Head Date

Calumet School Dean Date

Ft. Wayne Department Head Date

Ft. Wayne School Dean Date

Indianapolis Department Head Date

Indianapolis School Dean Date

North Central Department Head Date

North Central Chancellor Date

West Lafayette Department Head Date

West Lafayette College/School Dean Date

West Lafayette Registrar Date

OFFICE OF THE REGISTRAR
PURDUE UNIVERSITY  
REQUEST FOR ADDITION, EXPIRATION, 
OR REVISION OF AN UNDERGRADUATE COURSE  
(10000-49999 LEVEL)  

DEPARTMENT: School of Electrical and Computer Engineering (EFD 33-10)  
EFFECTIVE SESSION: Fall 2010  

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

<table>
<thead>
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PROPOSED:  
Subject Abbreviation: ECE  
Course Number: 35200  
Long Title: Microprocessor Systems and Interfacing  
Short Title: Micro Systems and Interfacing  

TERMS OFFERED:  
Check All That Apply:  
- [ ] Summer  
- [ ] Fall  
- [ ] Spring  

CREDIT TYPE  
1. Fixed Credit: Cr. Hrs.  
2. Variable Credit Range: Minimum Cr. Hrs. (Check One)  
- [ ] To Cr  
- [ ] No  
3. Equivalent Credit: Yes  

COURSE ATTRIBUTES: Check All That Apply  
- [ ] Pass/Not Pass Only  
- [ ] Satisfactory/Unsatisfactory Only  
- [ ] Repeatable  
- [ ] Maximum Repeatable Credit  
- [ ] By Examination  
- [ ] Full Time Privilege  
- [ ] Special Fees  
- [ ] Registration Approval Type:  
  - Instructor  

Course Description (Include Requisites/Restrictions):  
Prerequisites: ECE 27000 Minimum Grade of C and (Undergraduate level CS 15000 or ENGR 11700) and ECE 25500 [may be taken concurrently]  

COURSE LEARNING OUTCOMES:  
See attachment.  

Calumet Department Head: Date  
Calumet School Dean: Date  

Ft. Wayne Department Head: Date  
Ft. Wayne School Dean: Date  

Indianapolis Department Head: Date  
Indianapolis School Dean: Date  

North Central Department Head: Date  
North Central Chancellor: Date  

West Lafayette Department Head: Date  
West Lafayette College School Dean: Date  
West Lafayette Registrar: Date  

OFFICE OF THE REGISTRAR
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 36200, Microprocessor Systems and Interfacing, 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 36200 Microprocessor Systems and Interfacing
Sem. Fall, Spring, Summer; Cr. 4; Lecture 3. Lab 1
Prerequisites: ECE 27000 and (CS 15900 or ENGR 11700) and ECE 25500 [may be taken concurrently]
Restrictions: Must be enrolled in one of the following: School of Electrical & Computer Engineering
Description: An introduction to basic computer organization, microprocessor instruction sets, assembly language programming, and microcontroller peripherals.

To: ECE 36200 Microprocessor Systems and Interfacing
Sem. Fall, Spring, Summer; Cr. 4; Lecture 3. Lab 1
Prerequisites: ECE 27000 Minimum Grade of C and (CS 15900 or ENGR 11700) and ECE 25500 [may be taken concurrently]
Restrictions: Must be enrolled in: School of Electrical & Computer Engineering
Description: An introduction to basic computer organization, microprocessor instruction sets, assembly language programming, and microcontroller peripherals.

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 major-area (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.

[Signature]
on behalf of V. Balakrishnan, Interim Head
School of Electrical and Computer Engineering

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

ECC Minutes #24
Date 4/30/10
Chairman ECC R. Cipra
Course Learning Outcomes:

i. a ability to write programs for a microcontroller in assembly language.
ii. an ability to interface a microcontroller to various devices.
iii. an ability to effectively utilize the wide variety of peripherals integrated into a contemporary microcontroller.