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

DEPARTMENT **ECE**   EFFECTIVE SESSION **201710**

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/type

☐	7.	Change in course attributes (department head signature only)
☐	8.	Change in instructional hours
☐	9.	Change in course description
☑	10.	Change in course requisites
☑	11.	Change in semesters offered (department head signature only)
☐	12.	Transfer from one department to another

PROPOSED:

Subject Abbreviation **ECE**

Course Number **30415**

Long Title **Electro and Fiber Optics Lab**

Short Title

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

EXISTING:

Subject Abbreviation **ECE**

Course Number **41500**

TERMS OFFERED
Check All That Apply:

☐ Summer   ☑ Fall   ☐ Spring

CAMPUS(ES) INVOLVED

☐ Calumet	☐ N. Central
☐ Cont Ed	☐ Tech Statewide
☐ Ft. Wayne	☑ W. Lafayette
☐ 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 ☐

1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
   Maximum Repeatable Credit:
4. Credit by Examination
5. Fees ☐ Coop ☐ Lab ☐ Rate Request
Include comment to explain fee

COURSE ATTRIBUTES: Check All That Apply

☐ 6 Registration Approval Type
   Department ☐   Instructor ☐
☐ 7 Variable Title
☐ 8 Honors
☐ 9 Full Time Privilege
10 Off Campus Experience

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture				
Recitation				
Presentation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

Restriction: Student must be enrolled in the School of Electrical & Computer Engineering.
Requisites: Undergraduate level ECE 20800 Minimum Grade of D- and Undergraduate level ECE 30100 Minimum Grade of D. Undergraduate level ECE 30411 Minimum Grade of D- [may be taken concurrently] and Undergraduate level ECE 30414 Minimum Grade of D- [may be taken concurrently]

Laboratory exercises in lasers, hologram, modulation and deflection of laser beams, fiber components and systems.

*COURSE LEARNING OUTCOMES

I. an ability to properly handle basic optical components and equipment.
II. an ability to assemble and align necessary optical components to perform simple optical experiments.
III. an ability to design and test simple fiber communication systems.

Calumet Department Head	Date	Calumet School Dean	Date
Fort Wayne Department Head	Date	Fort Wayne School Dean	Date
Indianapolis Department Head	Date	Indianapolis School Dean	Date
North Central Faculty Senate Chair	Date	Vice Chancellor for Academic Affairs	Date
(signature) Jeffry 1/29/16		*(signature)* 3/22/16	
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: Changes to an existing course: ECE 41500 change in number, requisites and term offered

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

FROM: **ECE 41500 Electro and Fiber Optics Lab**
Sem. 2. Lab 3, Credit 1
Restriction: Student must be enrolled in the School of Electrical & Computer Engineering.
Requisites: Undergraduate level ECE 20800 Minimum Grade of D- and Undergraduate level ECE 31100 Minimum Grade of D- and Undergraduate level ECE 30100 Minimum Grade of D- and Undergraduate level ECE 41400 Minimum Grade of D- [may be taken concurrently]

Laboratory exercises in lasers, hologram, modulation and deflection of laser beams, fiber components and systems.
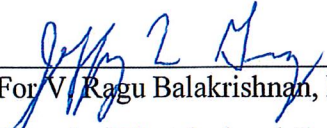
TO: **ECE 30415 Electro and Fiber Optics Lab**
Sem. 1. Lab 3, Credit 1
Restriction: Student must be enrolled in the School of Electrical & Computer Engineering.
Requisites: Undergraduate level ECE 20800 Minimum Grade of D- and Undergraduate level ECE 30100 Minimum Grade of D. Undergraduate level ECE 30411 Minimum Grade of D- [may be taken concurrently] and Undergraduate level ECE 30414 Minimum Grade of D- [may be taken concurrently]

Laboratory exercises in lasers, hologram, modulation and deflection of laser beams, fiber components and systems.

Approved for the faculty of the Schools
of Engineering by the Engineering
Curriculum Committee
ECC Minutes 15   Date 3/22/16
Chairman ECC

REASON: The change is intended to improve the progression of courses from the 20000 level to 30000 and 40000 level courses, for students who wish to focus their studies more precisely in the optics area and reflect similar changes, previously submitted to the Engineering Curriculum Committee, in ECE 30412 and ECE 30413. The change is also intended to mirror a change in ECE 41400, proposed to become 30414. This course was previously only available in spring semester and now will be available only in fall semester. No other changes will be made.

For V. Ragu Balakrishnan, Head
School of Electrical and Computer Engineering

ECE 5-Digit Course Numbering

First Digit: Level

6 – Graduate only courses

5 – Dual level

4 – Senior Level

3 – Junior Level

2 – Sophomore Level

1 – First Year Level

2nd and 3rd Digits: ECE Area

00 – CNSIP

02 – Automatic Control

04 – Fields and Optics

06 – Microelectronics and Nanotechnology

08 – Computer Engineering

10 – Power and Energy Systems

12 – VLSI

14 – BIS

4th and 5th Digits:

Mostly arbitrary – keep in prereq order if possible within ECE area. When updating, use same last two digits, i.e. ECE 30500 → ECE 30605, etc.

Special Cases:

X9595 for all experimental courses.

X99XX for all seminar or similar courses

XXX99 for all professional practice courses

490XX for all Sr. Design courses