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/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

EXISTING:
Subject Abbreviation: ECE
Course Number: 41500

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

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

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

COURSE ATTRIBUTES:
Check All That Apply
- 6 Registration Approval Type
- 7 Variable Title
- 8 Honors
- 9 Full Time Privilege
- 10 Off Campus Experience

Schedule Type
- Lecture
- Recitation
- Presentation
- Laboratory
- Lab Prep
- Studio
- Distance
- Clinic
- Experimental
- Research
- Ind. Study
- Field/Observe

Weeks Offered
% of Credit Allocated

Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUIREMENTS/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 30414 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: [Signature] Date: [Date]
Calumet School Dean: [Signature] Date: [Date]

Fort Wayne Department Head: [Signature] Date: [Date]
Fort Wayne School Dean: [Signature] Date: [Date]

Indianapolis Department Head: [Signature] Date: [Date]
Indianapolis School Dean: [Signature] Date: [Date]

North Central Faculty Senate Chair: [Signature] Date: [Date]
Vice Chancellor for Academic Affairs: [Signature] Date: [Date]

West Lafayette Department Head: [Signature] Date: [Date]
West Lafayette College/School Dean: [Signature] Date: [Date]
West Lafayette Registrar: [Signature] Date: [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.
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