Office of the Registrar
FORM 40G REV. 4/13

PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF A GRADUATE COURSE
(50000-60000 LEVEL)

Graduate Council Doc. No. 15-24a

20163 20 ECE 50863

DEPARTMENT: Electrical and Computer Engineering
EFFECTIVE SESSION: Spring 2015

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

- [x] 1. New course with supporting documents (complete proposal form)
- [ ] 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
- [ ] 8. Change in instructional hours
- [ ] 9. Change in course description
- [ ] 10. Change in course requisites
- [ ] 11. Change in semesters offered
- [ ] 12. Transfer from one department to another

PROPOSED:		EXISTING:	
Subject Abbreviation	ECE	Subject Abbreviation	
Course Number	50863	Course Number	
Long Title	Computer Network Systems		
Short Title	Computer Network Systems		

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

TERMS OFFERED (Check All That Apply): [ ] Fall [x] Spring [ ] Summer

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

CREDIT TYPE
1. Fixed Credit: Cr. Hrs. 3.0
2. Variable Credit Range: Minimum Cr. Hrs ____ (Check One) To [ ] Or [ ] Maximum Cr. Hrs ____
3. Equivalent Credit: Yes [ ] No [x]
4. Thesis Credit: Yes [ ] No [x]

COURSE ATTRIBUTES: Check All That Apply
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
6. Registration Approval Type: Department [ ] Instructor [x]
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	75	2	16	100%
Recitation				
Presentation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

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Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):
The goal of this course is to provide students with a proper grounding in the basic concepts and seminal work in computer network protocols and systems, and to introduce students to research in the field. The course will cover classical concepts such as network architecture, switching, routing, congestion control, and quality-of-service, and discuss recent developments in these areas. The course will also cover new developments in networking such as network measurements, network management, overlay networking and peer-to-peer systems, network security, and new network architectures. The course will emphasize a system-oriented and empirical view of Internet architecture. Graduate standing or consent of instructor. Professor Rao.

*COURSE LEARNING OUTCOMES:
i. An understanding of the architectural principles underlying the Internet design.
ii. An understanding of LAN interconnects, routing algorithms and congestion congestion control algorithms.
iii. An ability to identify, formulate and solve problems encountered in the design of networks.
iv. An ability to implement networking systems and rigorously evaluate them using systematic empirical methods.

	Date		Date		Date
Calumet Department Head		Calumet School Dean		Calumet Director of Graduate Studies	
Fort Wayne Department Head		Fort Wayne School Dean		Fort Wayne Director of Graduate Studies	
Indianapolis Department Head		Indianapolis School Dean		IUPUI Associate Dean for Graduate Education	
North Central Department Head		North Central School Dean		North Central Director of Graduate Studies	
Michael R Melloch	9/3/15	[signature]	10/5/15	APPROVED 1/21/16	
West Lafayette Department Head	Date	West Lafayette College/School Dean	Date	Date Approved by Graduate Council	Date
[signature]	21 Jan 16			Tina L. Payne	1/21/16
Graduate Area Committee Convener	Date	Graduate Dean	Date	Graduate Council Secretary	Date
				[signature]	2/19/16
				West Lafayette Registrar	Date

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