PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF AN UNDERGRADUATE COURSE
(10000-49900 LEVEL)

DEPARTMENT CEIT

EFFECTIVE SESSION FALL 2015

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: ITC
Course Number: 331
Long Title: Networks I
Short Title: Networks I

EXISTING:

Subject Abbreviation
Course Number

TERMS OFFERED

Check All That Apply:

☑ Fall
☑ Spring
☑ Summer

CAMPUS(ES) INVOLVED

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

Abbreviated title will be entered by the Office of the Registrar if omitted. (20 CHARACTERS ONLY)

CREDIT TYPE

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

COURSE ATTRIBUTES: Check All That Apply

1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable
4. Maximum Repeatable Credit:
5. Fees: [ ] Coop [ ] Lab [ ] Rate Request
6. Registration Approval Type [ ] Instructor [ ]
7. Vatable Title
8. Honors
9. Full Time Privilege
10. Off Campus Experience

Schedule Type

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

Minutes Per Sec
Meetings Per Week
Weeks Offered
% of Credit Allocated

Cross-Listed Courses

CPET 28100

OFFICE OF THE REGISTRAR
ITC 33100 – Networks I

Fall 2015

Course Info
ITC 33100 Networks I
Prerequisites: ITC23000 or CPET 181 or equivalent

Credit hours 3

Instructor
Hongli Luo, Ph.D.
Office: ET-205F
Tel: (260)481-5732
Email: luo@ipfw.edu
Web: http://www.etcs.ipfw.edu/~luo

Office Hours
Monday 12:30pm –3:00pm
Tuesday 9:00am – 12:00pm
Wednesday 12:30pm –3:00pm
Other times by appointment

Course Description
A study of networks and issues in network planning, design, installation, and management. Topics include network components, standards and protocols, topologies, architectures, system hardware, design and network layout, wiring and installation, network operating systems, servers, connection and services for clients, security and system administration and management. Other topics may include network applications, performance tuning, disaster recovery, hybrid systems, virtual networks, VoIP, and network monitoring and management tools. Work will include experience in Windows and Linux.

Textbook

References

ABET Technology Accreditation Commission (TC2K) Criterion 2. Program Outcomes
Although institutions may use different terminology, for purposes of Criterion 2, program outcomes are statements that describe what units of knowledge or skill students are expected to acquire from the program to prepare them to achieve the program educational objectives. These
are typically demonstrated by the student and measured by the program at the time of graduation. An engineering technology program must demonstrate that graduates have:

a. an appropriate mastery of the knowledge, techniques, skills and modern tools of their disciplines,
b. an ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering and technology,
c. an ability to conduct, analyze and interpret experiments and apply experimental results to improve processes,
d. an ability to apply creativity in the design of systems, components or processes appropriate to program objectives,
e. an ability to function effectively on teams,
f. an ability to identify, analyze and solve technical problems,
g. an ability to communicate effectively,
h. a recognition of the need for, and an ability to engage in lifelong learning,
i. an ability to understand professional, ethical and social responsibilities,
j. a respect for diversity and a knowledge of contemporary professional, societal and global issues, and
k. a commitment to quality, timeliness, and continuous improvement.

ITC 33100 Local Area Network and Management – Course Outcomes
A student who successfully fulfills the course requirements will have demonstrated the following knowledge, skills, and ability:
1. To provide knowledge of LAN components, protocols, topologies, and network architecture,
2. To allow the installation of Network Operating System (NOS) such as Windows 2008 and Unix/Linux,
3. To introduce methodology and tools needed in LAN management,
4. To enable the learning of how to use manuals, handbooks, technical references, Web sites, and material/equipment specifications in the management of a LAN,
5. To identify network points of failure and implement disaster recovery,
6. To administer rights and privileges pertaining to a local area network.
7. To configure and maintain the different services of Windows Server 2008.
8. Networking between Windows and Unix/Linux.

Grading Policy
Three exams – 45%  
Homework – 20%  
Lab and projects - 35%

1. Online students need to take the proctored exams at the testing center.
2. Please turn in your homework via Blackboard.
3. Homework must be done individually.
4. Late homework, if accepted, is subject to a late penalty. No late home works will be accepted after the solution is given.
5. Makeup exams will be given only if prior arrangements have been made.

Exam Dates:
Exam 1: 2/24 through 3/1
Exam 2: 3/31 through 4/5
Exam 3: 5/3, 5/5 through 5/7

Proctored Exam Information:
Information about Distance Education Testing can be found at
http://www.ipfw.edu/offices/testing/distance/
You must contact Testing Service at 260-481-6600 to schedule a specific exam date and
time. Appointment times can fill up quickly, please plan accordingly. If you live far away
from IPFW or cannot come to IPFW for the exam, let them know and you may schedule
the test at other locations.

Examinations are given during the following days and times in Kettler Hall, Rm. 232:
Mondays-Thursdays: 8:30 a.m, 10:00 a.m., 11:30 a.m., 1:00 p.m., 2:30 p.m., 4:00 p.m.
and 5:45 p.m.
Fridays: 8:30 a.m, 10:00 a.m., 11:30 a.m., 1:00 p.m., 2:30 p.m.
Saturdays: 8:30 a.m. and 10:00 a.m.

Services for Students with Disabilities:
If you have a disability and need assistance, special arrangements can be made to accommodate
most needs. Contact the Director of Services for Students with Disabilities (Walb Union, Room
113, telephone number 481-6658) as soon as possible to work out the details. For more
information, please visit the web site for SSD at http://www.ipfw.edu/sss/.

Career Services, Kettler 109, (260) 481-0689
Assistance with the following areas is provided for IPFW students and alumni: academic major
and career choices; career assessments; full-time, part-time, internship, and work-study
employment opportunities posted on our JobZone job database; job- and internship-search
strategies; resume and cover letter creation; and graduate school and interview preparation.
Additional information and a comprehensive list of our services is available on our web site at
www.ipfw.edu/career.

Tentative Lecture Schedule

- Introduction to Networks (Chapter 1)
- Network Hardware Essentials (Chapter 2)
- Network Topologies and Technologies (Chapter 3)
- Networking media (Chapter 4)
- Network protocol (Chapter 5)
- Network reference Models and Standards (Chapter 6)
- Network Hardware in Depth (Chapter 7)
- Network operating system fundamentals (Chapter 8)
- Server Management and Administration (Chapter 9)
- Supporting a Small-business Network (Chapter 11)
- Troubleshooting and support (Chapter 13)