

TDC 411 - Introduction to Computer and Network Systems

Winter 2019

Instructor Ahmad Abusini

Office Hours Thursdays 5:00PM - 5:45PM and 9:00PM -9:45 PM

Course Website <http://d2l.depaul.edu>

E-mail aabusini@depaul.edu

Meeting time Thursday 5:45PM - 9:00PM

Location Lewis 1513 at Loop Campus

Text:

Systems Architecture, Seventh Edition by Stephen D. Burd.

ISBN 978-1-305-08019-5

Published by Cengage.

The above Textbook is required however the Instructor will provide students with summarized power point slides for lectures and Quizzes study.

Description:

This course is an introduction to computer architecture and operating systems with an emphasis on network systems. Topics covered include computer components and functions, process management, memory management, file management, interrupts and I/O peripheral devices, as well as computer networks, network security, distributed systems, and network administration. Students will have several hands-on labs utilizing a Linux and Cisco IOS environment and will use Shell script for basic systems and network administration as well.

Goals and learning outcomes:

- Design technology solution reports for problems presented in class
- Recognize design concepts of Operating Systems
- Evaluate solutions to technology problems to determine their effectiveness
- Identify the components and functions of computer networks
- Describe basic operating procedures of a data network
- Experiment with several Networking tools to gain troubleshooting skills
- Define Access Control and apply it on Cisco equipment
- Execute administrative and operational tasks in a Linux environment
- Operate a basic Local Area Network.

Prerequisites:

None

Course Breakdown:

- 10% - Quizzes (4 @ 2.5% each)
- 40% - Lab Assignments (4 @ 10% each)
- 15% - Class Participation(attendance and Discussions)

- 35% - Final Paper and Presentation

Find more details below.

Quizzes: there will be a total of 4 quizzes. The quiz is taken online on the D2L course website.

Lab assignments: there will be 4 assignments. We learn about OS Virtualization, Linux, Cisco IOS, packet tracer, wireshark and Firewalls.

Class Participation: your presence and participation in class activities is essential to succeed in this course. Participating in the online discussion forums is also part of the Participation grade. In-class students are expected to attend all class meetings (attendance will be monitored). Students are encouraged to participate actively in class and on the online forums. Occasionally two students will require to present a topic that has been discussed in class for 10-15 minutes each.

Final Paper and Presentation: each student will be assigned one topic that is related to the course. The student will write a paper to analyze the specified topic. Every student will present their topic for 10-15 minutes during the last class (online students could come to class to present or submit their presentation video on D2L). The presentation is worth 10% of the grade. The paper is worth 25%.

Finally, note that **late submissions will be accepted with partial credit.**

Grading Scale

A = 90% - 100%	A- = 88% - 90%	B+ = 86%-88%	B = 80% - 86%
B- = 78% - 80%	C+ = 76% - 78%	C = 70% - 76%	C- = 68% - 70%
D+ = 66% - 68%	D = 60% - 66%	F = 0% - 60%	

Course Schedule:

Date	Topic	Required Reading	Assignment
01/10	Computer Technology and Introduction to Systems Architecture	Ch 1 and 2	
01/17	Data Representation and IP Addressing	Ch 3	Quiz 1 due at 01/21 11:59 PM
01/24	Processor Architecture	Ch 4	Lab 1 due 01/28 11:59PM
01/31	Operating Systems and Virtualization	Ch 11	Quiz 2 due 02/04 11:59PM
02/07	Computer Networks- Intro to Cisco Equipment and packet Tracer	Ch 8 and 9	Lab 2 due 02/11 11:59PM
02/14	Data and Network communications -LANs	Ch 9	Quiz 3 due 02/18 11:59PM
02/21	Distributed Applications and Wide Area Networks (the Internet)	Ch 13	Lab 3 due 02/25 11:59PM
02/28	Network Security and Administration	Ch 14	Quiz 4 due at 03/04 11:59PM
03/07	Wrap-up and Review		Lab 4 due 03/11 11:59PM

Date	Topic	Required Reading	Assignment
03/14	Final Paper Presentations		
03/21			Final paper due

* Cisco Press <http://www.ciscopress.com/articles/article.asp?p=101151&seqNum=3>

Course Policies:

Changes to Syllabus

This syllabus is subject to change as necessary during the quarter. If a change occurs, it will be thoroughly addressed during class, posted under Announcements in D2L and sent via email.

Online Course Evaluations

Evaluations are a way for students to provide valuable feedback regarding their instructor and the course. Detailed feedback will enable the instructor to continuously tailor teaching methods and course content to meet the learning goals of the course and the academic needs of the students. They are a requirement of the course and are key to continue to provide you with the highest quality of teaching. The evaluations are anonymous; the instructor and administration do not track who entered what responses. A program is used to check if the student completed the evaluations, but the evaluation is completely separate from the student's identity. Since 100% participation is our goal, students are sent periodic reminders over three weeks. Students do not receive reminders once they complete the evaluation. Students complete the evaluation online in [CampusConnect](#).

Academic Integrity and Plagiarism

All quizzes and assignments must be completed individually. This course will be subject to the university's academic integrity policy. More information can be found at <http://academicintegrity.depaul.edu/>. If you have any questions be sure to consult with your professor.

Academic Policies

All students are required to manage their class schedules each term in accordance with the deadlines for enrolling and withdrawing as indicated in the [University Academic Calendar](#). Information on enrollment, withdrawal, grading and incompletes can be found at: cdm.depaul.edu/enrollment.

Students with Disabilities

Students who feel they may need an accommodation based on the impact of a disability should contact the instructor privately to discuss their specific needs. All discussions will remain confidential.

To ensure that you receive the most appropriate accommodation based on your needs, contact the instructor as early as possible in the quarter (preferably within the first week of class), and make sure that you have contacted the Center for Students with Disabilities (CSD) at: csd@depaul.edu.

Lewis Center 1420, 25 East Jackson Blvd.

Phone number: (312)362-8002

Fax: (312)362-6544

TTY: (773)325.7296

Incomplete Grades

An incomplete grade is a special, temporary grade that may be assigned by an instructor when unforeseeable circumstances prevent a student from completing course requirements by the end of the term and when otherwise the student had a record of satisfactory progress in the course. All incomplete requests must be approved by the instructor of the course and a CDM Associate Dean. Only exceptions cases will receive such approval. Information about the Incomplete Grades policy can be found at <http://www.cdm.depaul.edu/Current%20Students/Pages/Grading-Policies.aspx>

Proctored exams for Online Students

If you are an online learning student living in the Chicagoland area (within 30 miles of Chicago), you will need to come to one of DePaul's campuses to take an exam. Online learning students outside of the Chicagoland area are required to locate a proctor at a local library, college or university. You will need to take the exam within the window your instructor gives. Students should examine the course syllabus to find exam dates and the instructor's policy on make-up exams. Detailed information on proctored exams for online learning students can be found at <http://www.cdm.depaul.edu/onlinelearning/Pages/Exams.aspx>