

TDC 363 - Introduction to Local Area Networks

Winter 2019

Instructor Rami Ghannam

Office Hours Tuesday 3:00PM - 4:30PM at CDM 823

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

E-mail rghannam@cdm.depaul.edu

Meeting time Tuesday & Thursday 1:30PM - 3:00PM

Location Lewis 1216 at Loop Campus

Optional Text:

CCNA Routing and Switching Complete Study Guide: Exam 100-105, Exam 200-105, Exam 200-125

ISBN 13: 9781119288282 by Todd Lammle, Sybex, 2016.

Cisco provides many useful online learning materials as a part of its Cisco Network Academy (CNA). Since DePaul is a Cisco Networking Academy, you have access to these materials during this course. The CNA materials duplicate and expand the materials in the Lammle text book to provide you an alternate text book. You may choose to (a) read only the Lammle text and ignore the CNA materials (b) read only the CNA materials and ignore the Lammle text, or (c) use both. Either source covers all topics required for this course. It is up to you.

To use the CNA materials, you must log onto the Cisco NetSpace site at <http://netacad.com>. You should receive an e-mail from Cisco during the first week of class, with instructions on how to register on this site.

Description:

This course covers the principles of local area network (LAN) technologies including protocols, hardware, LAN software and design concepts. The course will focus on the lower layers of the OSI model and explore Ethernet, bridging/switching, VLANs, securing the network and overview of Spanning-tree protocols. Basic routing using RIP and OSPF as well as WAN services will also be investigated. The course will involve multiple lab exercises and troubleshooting activities to help reinforce the concepts.

Prerequisites:

None

Course Breakdown:

- 30% - 4 Homework assignments
- 35% - 4 Lab Exercises
- 15% - Midterm Exam
- 15% - Final Exam
- 5% - Class Attendance and Participation

Homework assignments, labs and exams must be completed individually. Class attendance is essential since lectures may cover topics outside the text.

Further details on each assignment will be distributed in class. Final grades will be calculated as follows: points earned divided by possible points in each category will be multiplied by the contribution percentages shown to yield a total course percentage score between 0% and 100%.

Late Assignment Policy:

Homework assignments will NOT be accepted late – Homework solutions are posted right after the due time of the homework and I cannot accept any submission after that. Homework assignments are due by 1:30PM on the due date.

Lab assignments received late will be penalized as follows: up to 1 day late is 15% penalty; between 1 day and 3 days late is 25% penalty; between 3 days and 6 days late is 40% penalty. No submissions will be accepted more than 6 days past the due date. Lab assignments are due by 11:59PM on the due date.

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
1/8 1/10	Network Fundamentals, Ethernet, Protocol Layers and Encapsulation	Ch 1, 2 and 3	
1/15 1/17	DHCP, DNS, Subnetting, VLSM	Ch 4 and 5	HW #1 out 1/17
1/22 1/24	IOS, Layer 2 Switching	Ch 6 and 10	HW#1 due 1/24 1:30PM Lab #1 out
1/29 1/31	VLANs	Ch 11	HW #2 out 1/31 Lab #2 out
2/5 2/7	STP, EtherChannel		HW #2 due 2/7 1:30PM Lab #3 out <i>Lab #1 due 2/8 11:59PM</i>
2/12	Review		
2/14	Midterm Exam		
2/19 2/21	IP Routing, RIPv2	Ch 9	HW #3 out 2/21 <i>Lab #2 due 2/22 11:59PM</i>
2/26 2/28	OSPF	Ch 18	HW #3 due 2/28 1:30PM Lab #4 out <i>Lab #3 due 3/1 11:59PM</i>
3/5 3/7	WANs	Ch 21	HW #4 out 3/7
3/12 3/14	Wrap-up		HW #4 due 3/14 1:30PM <i>Lab #4 due 3/15 11:59PM</i>
3/19	Final Exam		

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>