Class :   Online recordings available on Mondays at 5:45pm each week (except for Memorial Day)

Instructor :   Dr. Anthony Chung

Office :   Online via Zoom (Link to join is in d2l)

Office Hours :   M to Th 3:00-3:45 PM

Email :   achung@depaul.edu

IMPORTANT:

While email is a great means of communication, increasingly we are bombarded with a volume of emails that is getting difficult to manage. In order to manage emails to better serve both the students and the professor. **Pay attention to ALL of the following:**

- **You MUST include TDC594 (case insensitive) in the subject line of the email as they will be directed to the appropriate mailbox where I check for emails related to this course.**

- I meet with students through Skype, answer student emails, and respond to discussion forums etc **during my office hours.** In this way, you know exactly when you expect to hear from me by these means of communications. If you contact me close to the end of my office hours I may have to respond during the next office hours period. If you do not hear from me after two office hours periods, check to make sure that you included TDC594 in the subject, email me again, or call to leave a message.

- I am guaranteed to be available through Skype during the office hours hours. If I cannot make some office hours due to special circumstances, announcements will be made on d2l.

  Depending on the complexity of your questions, **sometime we can get more out of meeting by skype interactively rather then by emails.**

- Given my response time frame and office hours, you should **work on your assignments early so as to give you ample time to ask questions.**

- Please observe the following email etiquette so that we will be able to better focus our energy on learning and getting the most out of the class. It is also part of being professional. Some recruiters are abhorred at some of the emails received from recent recruits. It is important to form the good habit of writing appropriate emails in a professional setting.

  o Before sending questions via email or posting questions on the d2l discussion forum, make sure that your question is not already answered on the course syllabus, the d2l website (announcements, discussion forums, assignment information etc), or in the lecture (view the class recording if you missed a class, or if you are an OL student).

  o Questions that are of general interest to the entire class should be posted on the course discussion forum.

- o In addition to including TDC594 in the subject line, **be specific about the subject of the email in the mail subject heading and use proper spelling, grammar, and punctuation. DO NOT respond to an old email with a different subject when asking a new question.**

- o **Include <u>your full name</u> in the message body.**

- o While you have my permission to address me as Anthony or Tony, you should not assume that you could address other professors on a first name basis unless you have their explicit permissions.

Course Home Page :   https://d2l.depaul.edu (Open on or before March 27, 2020)

Prerequisites: TDC 460, 463, 464, 477, 511, 560, 563.

Text: Top-Down Network Design, 3<u>rd</u> ed, Priscilla Oppenheimer, Cisco Press, 2010.

ISBN 9781587202834 (Safari e-Book available through DePaul library proxy)

<u>Course Description and Objective:</u>

 In this course students will synthesize knowledge from previous courses to design and demonstrate a comprehensive network project. Topics introduced or reviewed, and used in completing the project, will include network requirement analysis, network architecture design, vendor evaluation, planning, experimental design, physical design, logical design, security design, testing strategy, documentation, change management, and network management strategy.

<u>Grading</u>

7 Lab Exercises (using Packet Tracer)	**25%**
2 Homework Assignments	**10%**
Student Presentation	**15%**
Network Skills Exam	**20%**
Case Study Project	**30%**
Participation (as extra credits)	**10%**

A	92-100%
A-	90-91%
B+	88-89%
B	82-87%
B-	80-81%
C+	78-79%
C	72-77%
C-	70-71%
D+	68-69
D	60-67%
F	< 60%

Important Notes on Grading:

- Student must score 60% or above in the Network Skills Exam to pass the course. This is a strict requirement.
- The total of everything is 110, but will be capped at 100.
- Grade scale may be changed to students' advantage.

Notes:

- **Tips for online learning:**

  DePaul has created this document with tips to be a successful online student:
  https://drive.google.com/file/d/1qGG_cnVtqknOp9ENRMl5yt51_gtY6-cO/view

  This is DePaul's general website for student success:
  https://resources.depaul.edu/student-success/Pages/default.aspx

  Here is a useful link from Northwestern University -
  https://www.northeastern.edu/graduate/blog/tips-for-taking-online-classes/

- **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.

- **Penalty for late lab assignments:**
  - **After the due time: -20%**
  - **After one day: -50%**
  - **After two days: -100%**

  Late submissions for assignments other than labs are not accepted.

  All due dates and time are given in the submission boxes. Check the schedule and be sure of the due dates. You must use the homework submission system (submission box) through d2l. **If there are problems with the submission system, you may email me a copy of the assignment BEFORE the due time.**

- **About Class Participation**

  - Viewing of recorded lectures is expected.
  - For the first **six lecture modules** there will be a **participation quiz** for 2 points each. You can get up to 10 points total applied as extra credits. The questions will be on the "in class" exercises and certain points that we emphasized in the recordings. Students are allowed to take the quiz **up to 10 times** before the quiz is due and the **highest** score will be used towards the final grade. To do well in the quiz you are recommended to

- Take notes while viewing the lecture, especially on points not in the slides but were filled in within the lecture videos, and points where I emphasized that students should write down.
- When an "in class" exercise is given, students should attempt to work through the exercise. There will be one or more submission boxes for the "in class" exercises. They must be submitted before you can watch the remaining parts of the lecture.
- Make sure that you get the answers of the in class exercises. Some quiz questions will be on the in class exercises.

Here's a link from Columbia about the importance of note taking (and resources) https://www.cc-seas.columbia.edu/node/31875

Although you can choose to take notes using you laptop or by hand, here's an article on recent research showing the advantage of taking notes by hand. http://www.npr.org/2016/04/17/474525392/attention-students-put-your-laptops-away

- Any grading questions **must be directed to me within 1 week of the posting of the grade. No grade adjustments will be made more than a week after the grade is posted. You should email me with the following information:**
  - **The assignment**
  - **The problem in question**
  - **Why you think you should get a grade rather than the one given.**
- About the Network Skills Exam (online):
  - Exams are closed books and notes.
  - You are given a total of 2 ½ hours for the exam. More details will be presented in the course.
  - It is scheduled **at 5:45 pm on Monday April 20** (the 4th week)
  - **For students enrolled in the original OL section** – contact me if you have a valid and documented reason for taking the exam at a different time.

- Check DePaul's academic calendar https://academics.depaul.edu/calendar/Pages/default.aspx for important dates such as last day to add/drop/withdraw from classes.

- **Make sure that you read and understand DePaul's academic integrity policy:** http://academicintegrity.depaul.edu/AcademicIntegrityPolicy.pdf **For additional resources concerning academic quality, please check here:** http://academicintegrity.depaul.edu/Resources/index.html **All assignments and the exam are individual assignments. You should not work so close with another student as to produce solutions that are identical or almost identical.**

- o **Under no circumstances should you copy or use simple paraphrasing of someone else's work, <u>including course materials and lecture slides,</u> without giving proper credits and references.**
- o **Please be aware that any written work submitted in this course may be verified using *Turn-It-In* technology in order to ensure that the work is the student's own creation and not in violation of the University's Academic Integrity Policy. Submission of work in this course constitutes a pledge that the work is original and consent to have the work submitted to verify that fact.**

- **Student Attitude:** A professional and academic attitude is expected throughout this course for online interactions.

- **Civil Discourse:** DePaul University is a community that thrives on open discourse that challenges students, both intellectually and personally, to be Socially Responsible Leaders. It is the expectation that all dialogue in this course is civil and respectful of the dignity of each student. Any instances of disrespect or hostility can jeopardize a student's ability to be successful in the course. The professor will partner with the Dean of Students Office to assist in managing such issues.

<u>Schedule (Tentative):</u>

Note: All assignments are due at 11:59 PM.

Date	Topic	Readings	Assignments
Mar 30	Course overview; Network Design: Business Goals and Technical Goals	Chapters 1, 2	
April 6	Performance Design; Redundancy and Scalability, Case Study Discussion	Chapters 3, 4	*Non-graded assignments due (Academic integrity pledge, and posting of self-introduction on discussion forum)* *HW #1 out* *Case Study Project Assignment out* *3-30 participation due*
April 13	Logical Network Design; Routing and BGP	Chapters 5, 6, 7	*Labs out* *Student Presentations Assignment out*

			4-6 participation due
April 20	***Network Skills Exam***		*4-13 participation due on 4-20* *HW #1 due 4/23*
April 27	Design Optimization; QoS; Latency; Multicast	Chapter 13	
May 4	Security Design; Firewalls; NAT/PAT	Chapter 8	*Labs #1-#5 due* *HW #2 out* *4-27 participation due*
May 11	Physical Network Design; IPv6	Chapters 10, 11	*5-4 participation due*
May 18	Network Management Strategies Student Presentations	Chapter 9	***Student Presentations*** **5-11 participation due**
May 25	Wrap-up and Summary Student Presentations		***Student Presentations*** *HW #2 due*
June 1	*Memorial Day – University Closed*		*Labs #6-#7 due 6/3*
June 8	***Case Study Project due***		

Online Instructor Evaluation

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 two weeks. Students do not receive reminders once they complete the evaluation.

Email

Email is the primary means of communication between faculty and students enrolled in this course outside of class time. Students should be sure their email listed under "demographic information" at http://campusconnect.depaul.edu is correct.

Academic Integrity Policy

This course will be subject to the faculty council rules on the Academic Integrity Policy

Plagiarism

The university and school policy on plagiarism can be summarized as follows: Students in this course, as well as all other courses in which independent research or writing play a vital part in the course requirements, should be aware of the strong sanctions that can be imposed against someone guilty of plagiarism. If proven, a charge of plagiarism could result in an automatic F in the course and possible expulsion. The strongest of sanctions will be imposed on anyone who submits as his/her own work a report, examination paper, computer file, lab report, or other assignment which has been prepared by someone else. If you have any questions or doubts about what plagiarism entails or how to properly acknowledge source materials be sure to consult the instructor.

Incomplete

An incomplete grade is given only for an exceptional reason such as a death in the family, a serious illness, etc. Any such reason must be documented. Any incomplete request must be made at least two weeks before the final, and approved by the Dean of the College of Computing and Digital Media. Any consequences resulting from a poor grade for the course will not be considered as valid reasons for such a request.

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:
Student Center, LPC, Suite #370
Phone number: (773)325.1677
Fax: (773)325.3720
TTY: (773)325.7296