

# SYLLABUS

## TDC 372

### WAN Services

### Spring 2020

**Instructor:** Greg Brewster  
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**Class Meeting:** Mondays 7:00 pm by Zoom - <https://depaul.zoom.us/j/344996692>  
**Office Phone:** (312) 362-6587  
**Office Hours:** Mondays 4:00 – 5:30 PM & by appointment (phone or Zoom)  
**Course Site:** <http://d2l.depaul.edu>  
**E-Text:** Cisco Network Academy: Enterprise Networking, Security and Automation (ENSA) at <http://netacad.com>  
**Prerequisites:** TDC 362 and TDC 363

This online course explores Wide Area Network and Internet Service Provider services. Topics include access services over DSL, cable modem, T-carrier and redundant fiber rings, as well as ISP data services such as Multi-Protocol Label Switching, traffic prioritization, frame relay, VPNs, specialized video network services, traffic engineering, Network Function Virtualization (NFV) and software-defined WANs (SD-WANs).

This course is fully online. There will be no in-person meetings. Students should check on D2L regularly for course updates and new content. There will be weekly live Zoom meetings for additional information, questions and examples. Zoom meetings will be recorded and posted on D2L for students who cannot join.

Required coursework components and their contribution to the final grade will be:

- a) 3 homework assignments (25%)
- b) 4 Lab exercises (25%)
- c) Midterm Assessment (15%)
- d) Group Presentation (15%)
- e) Report/Project (20%)

Assignments received late will be penalized as follows: up to 1 day late is 15% penalty; between 1 day and 2 days late is 25% penalty, between 2 days and 1 week late is 35% penalty; more than 1 week late results in no credit for the particular assignment. Homeworks, labs, midterm quiz and final report must be completed individually. Group presentations will be organized with a team of students, but each student will present individually on-line. The strongest of sanctions will be imposed on anyone who submits as his/her own any work which has been prepared by someone else. I expect all students to read and understand DePaul's policy on Academic Integrity.

## Class Schedule

Zoom Meeting: 7:00 pm on each Monday Class Date at URL:

<https://depaul.zoom.us/j/344996692>

Expected Topics covered each week, assignments, and required readings in Cisco Enterprise Networking, Security and Automation (ENSA) are listed here:

| <i>Week</i> | <i>Topics</i>                               | <i>ENSA Readings</i> | <i>Assignments</i>            |
|-------------|---|----------------------|-------------------------------|
| Mar. 30     | Course Overview, OSPF Routing               | Ch. 1, 2             |                               |
| Apr. 6      | WAN Overview, T-Carrier, SONET, DSL, Cable, | Ch. 7.1, 7.2, 7.5    | Lab #1 out<br>HW #1 out       |
| Apr. 13     | Wireless Access, Frame Relay, ATM, PPP      | Ch. 7.3              | HW #1 due 4/16<br>Lab #2 out  |
| Apr. 20     | Metro Ethernet, MPLS, Traffic Engineering   | Ch. 7.4              | Lab #1 due 4/23<br>HW #2 out  |
| Apr. 27     | VPNs, Remote Access                         | Ch. 8                | HW #2 due 4/30<br>Lab #3 out  |
| May 4       | Midterm Assessment                          |                      | Lab #2 due 5/7                |
| May 11      | QoS, Cloud Services                         | Ch. 9, 13.1, 13.2    | Lab #3 due 5/14<br>Lab #4 out |
| May 19      | SDNs, SD-WANs, Network Automation           | Ch. 13.3-13.5, 14    | HW #3 out                     |
| May 25      | NO MEETING – Memorial Day                   |                      | HW #3 due 5/28                |
| June 1      | Wrapup and Group Presentations              |                      | Lab #4 due 6/4                |
| June 8      | Reports/Projects Due                        |                      |                               |

Grade scale will be: A = 92%-100%, A- = 90%-92%, B+ = 89%-90%, B = 82%-88%, B- = 80%-82%, C+ = 78%-80%, C = 70%-79%, C- = 65%-70%, D+ = 63%-65%, D = 55%-63%, F = 0-55%. Grade scale may be changed to the students' advantage.

### 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

Instructor and course evaluations provide valuable feedback that can improve teaching and learning. The greater the level of participation, the more useful the results. As students, you are in the unique position to view the instructor over time. Your comments about what works and what doesn't can help faculty build on the elements of the course that are strong and improve those that are weak. Isolated comments from students and

instructors' peers may also be helpful, but evaluation results based on high response rates may be statistically reliable (believable). As you experience this course and material, think about how your learning is impacted. Your honest opinions about your experience in and commitment to the course and your learning may help improve some components of the course for the next group of students. Positive comments also show the department chairs and college deans the commitment of instructors to the university and teaching evaluation results are one component used in annual performance reviews (including salary raises and promotion/tenure). The evaluation of the instructor and course provides you an opportunity to make your voice heard on an important issue – the quality of teaching at DePaul. Don't miss this opportunity to provide feedback!

### **Academic Integrity and Plagiarism**

This course will be subject to the academic integrity policy passed by faculty. More information can be found at <http://academicintegrity.depaul.edu/>.

The university and school policy on plagiarism can be summarized as follows: Students in this course 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 any 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.

### **Withdrawal**

Students who withdraw from the course do so by using the Campus Connection system (<http://campusconnect.depaul.edu>). Withdrawals processed via this system are effective the day on which they are made. Simply ceasing to attend, or notifying the instructor, or nonpayment of tuition, does not constitute an official withdrawal from class and will result in academic as well as financial penalty.

### **Retroactive Withdrawal**

This policy exists to assist students for whom extenuating circumstances prevented them from meeting the withdrawal deadline. During their college career students may be allowed one medical/personal administrative withdrawal and one college office administrative withdrawal, each for one or more courses in a single term. Repeated requests will not be considered. Submitting an appeal for retroactive withdrawal does not guarantee approval. College office appeals for CDM students must be submitted online via MyCDM.

### **Incomplete**

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. CDM policy requires the student to initiate the request for incomplete grade before the end of the term in which the course is taken. Prior to submitting the incomplete request, the student must

discuss the circumstances with the instructor. Students may initiate the incomplete request process in MyCDM.

- All incomplete requests must be approved by the instructor of the course and a CDM Associate Dean. Only exceptions cases will receive such approval.
- If approved, students are required to complete all remaining course requirement independently in consultation with the instructor by the deadline indicated on the incomplete request form.
- By default, an incomplete grade will automatically change to a grade of F after two quarters have elapsed (excluding summer) unless another grade is recorded by the instructor.
- An incomplete grade does NOT grant the student permission to attend the same course in a future quarter.

### **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

### **Student Attitude**

A professional and academic attitude is expected throughout this course. Measurable examples of non-academic or unprofessional attitude include but are not limited to: talking to others when the instructor is speaking, mocking another's opinion, cell phones ringing, emailing, texting or using the internet whether on a phone or computer. If any issues arise a student may be asked to leave the classroom. The professor will work with the Dean of Students Office to navigate such student issues.

### **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.