

# SYLLABUS

## TDC 365

### Network Interconnection Technologies

### Autumn 2019-20

**Instructor:** Greg Brewster  
**Office:** CDM 850  
**Office Hours:** Th 4:00 pm – 5:30 pm or by appt.  
**Class Time:** Th 5:45 pm – 9:00 pm.  
**Phone:** (312) 362-6587 (voice) (312) 362-6116 (fax)  
**E-mail:** [gbrewste@depaul.edu](mailto:gbrewste@depaul.edu)  
**Course website:** <http://d2l.depaul.edu>  
**Prerequisite:** TDC 363  
**E-Text:** Cisco Networking Academy, <https://www.netacad.com>  
**Optional Text:** *CCNA Routing and Switching Complete Study Guide*  
by Todd Lammle, Sybex, 2016, ISBN 978-1119288282

A comprehensive study of network interconnection technologies emphasizing layer 3 routing. TCP/IP protocols will be studied, including IPv4 and IPv6 address management, router operations and management. Static routing and dynamic routing will be covered. EIGRP, OSPF and BGP routing protocols will be studied and configured.

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

- a) 4 Homework Assignments (30%)
- b) 5 Lab Exercises (30%),
- c) Midterm exam (15%)
- d) Final Exam (20%)
- e) Class Participation (5%)

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%. Letter grades will be assigned as:

A = 92% - 100%	A- = 90% - 92%	B+ = 88%-90%	B = 82% - 88%
B- = 80% - 82%	C+ = 78% - 80%	C = 72% - 78%	C- = 70% - 72%
D+ = 68% - 70%	D = 60% - 68%	F = 0% - 60%	

Some assignments will not be accepted late – this will be marked on the assignment. Any other 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 7 days late is 40% penalty; no assignments will be accepted more than 7 days past the due date. Assignments are due by 11:59 pm on the due date unless otherwise indicated.

Homework assignments, labs and exams must be completed individually unless the assignment explicitly states that team work is permissible. Class attendance is essential since lectures may cover topics outside the text.

Lab assignments may be completed either using Cisco Packet Tracer software or using an equipment pod (switches and routers) in the NetSec lab (CDM room 348). Students must complete at least 2 of the 5 lab assignments in NetSec lab to avoid any Lab grade penalty.

***Class Schedule:***

Class dates, topics, readings on Cisco Network Academy, and Assignments are shown below. Cisco Network Academy materials are split among 4 online courses: Intro to Networks (ItN), Routing and Switching Essentials (RSE), Scaling Networks (SN) and Connecting Networks (CN). Note: you are not required to do any Activities or Labs on NetAcad unless specifically stated, but you are encouraged to complete them for extra practice if you wish.

**Class Schedule**

<i>Date</i>	<i>Topics</i>	<i>NetAcad Readings</i>	<i>Assignments</i>
Sep. 12	Review: Switching vs. Routing, IP Subnets	ItN Ch. 5, 6, 7.1	
Sep. 19	Labs, VLSM, Static and Default Routes	ItN Ch. 2, 8.1-8.2 RSE Ch. 1, 2, 3 SN Ch. 5	HW 1 out Lab 1 out
Sep. 26	OSPFv2	SN Ch. 8.1, 8.2, 9	HW 1 due 10/1 Lab 2 out
Oct. 3	EIGRP	SN Ch. 6, 7	HW 2 out Lab 3 out Lab 1 due 10/8
Oct. 10	IPv6 Addressing and OSPFv3	ItN Ch. 7.2, 8.3 SN Ch. 8.3	HW 2 due 10/10 5:30 pm Lab 4 out Lab 2 due 10/15
Oct. 17	Midterm Exam		
Oct. 24	BGP and Redistribution	CN Ch. 3.5	HW 3 out Lab 5 out Lab 3 due 10/29
Oct. 31	Security and ACLs	CN Ch. 4 RSE 5.2	HW 3 due 11/5
Nov. 7	HSRP, NAT	SN Ch. 4.3 RSE Ch. 9	HW 4 out Lab 4 due 11/8
Nov. 14	Wrapup and Review		HW 4 due 11/14 5:30 pm Lab 5 due 11/19
Nov. 21	Final Exam		

### **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.

### **Cell Phones/On Call**

If you bring a cell phone to class, it must be off or set to a silent mode. If you are required to be on call as part of your job, please advise me at the start of the course and you may step outside the classroom to take calls.