

# NET 463/365 – Network Interconnection technologies

## Summer II 2021

**Instructor** Ahmad Abusini

**Office Hours** Online using Zoom, Saturdays 6:00 PM to 7:30 PM CST

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

**E-mail** aabusini@depaul.edu

**Meeting time** : Online T,TH 5:45PM to 9:00PM CST

**Location** Online

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### Text:

Cisco Networking Academy, Scaling Networks (SN) and Connecting Networks (CN): <https://www.netacad.com>

### Description:

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. RIP, EIGRP, OSPF and BGP routing protocols will be studied and configured. This course is fully online. There will be no in-person meetings. Students should check on D2L regularly for course updates and new content however there will be some live weekly zoom meetings as needed to go over your questions or concerns.

### 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.

### Prerequisites:

NET363

### Course Breakdown:

- 40% - Lab Assignments
- 40%- Homework Assignments
- 20%-Final Assessment

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; More than 1 week late is 60% penalty. 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.

## 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
<b>Week1 7/20</b>	Review: IP Subnets, Routing. RIP protocol.  Single-Area OSPF, Multi-Area OSPF and Redistribution	SN Ch. 5, ch 8.1, ch 8.2 ch 9 and ch 10	HW 1 and Lab 1 both are due on 07/28 11:59 PM
<b>Week2 7/27</b>	EIGRP  IPv6 Routing (OSPFv3) and DHCPv6	SN Ch. 6, 7, SN Ch. 8.3	HW1 and Lab 2 are due 08/4 11:59PM
<b>Week3 8/3</b>	Border Gateway Protocol (BGP)  Network Address Translation (NAT)	CN Ch. 3.5	HW 3 is due 08/11 11:59PM
<b>Week4 8/10</b>	Access Control Lists (ACLs)  Monitoring Networks: SNMP and SPAN	CN Ch. 4, CN Ch. 5.2, 5.3	Lab 3 is due on 08/18 11:59PM  HW#4 is optional with bonus due 08/20
<b>Week5 8/17</b>	Review, follow up and final Assessment.		Final Assessment is due on 08/23 11:59 PM

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

## Course Policies:

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### 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 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](http://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](mailto: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>