

**Instructor: Rami M. Salahieh**

Office: CDM 222 by Appointment

Classroom: Tuesday CDM 222 Loop Campus 5:45pm – 9:00pm

Phone: (219) 201-2925 (day), no text please, calls only by appointment via email.

E-mail: [ramidepaul@gmail.com](mailto:ramidepaul@gmail.com) (Please use always)**Office hours:** Tuesday 5:15pm to 5:45pm CDM 222 & 9:00pm to 10:00pm CDM 222 Loop Campus.

While email is a great means of communication, increasingly we are bombarded with a volume of emails that is getting difficult to manage. 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 were 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.

- Under normal situation I will respond within two business days. Therefore work on your assignments early so as to give you ample time to ask questions. If I do not respond within the normal time frame, it's properly because one or more of the following etiquettes is not followed.

- Expect lab assistants to respond only during posted lab hours.

- 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).

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

- Be specific about the subject of the email in the mail subject heading and use proper spelling, grammar, and punctuation. Include course number in the subject. Please don't respond to an old email with a different subject when asking a new question.

- Include your full name in the message body.

- While you have my permission to address me as **Prof. Rami**, you should not assume that you can address other professors on a first name basis unless you have their explicit permissions.

**Course Home Page:** <https://d2l.depaul.edu> (It will open by Tuesday, September 11, 2018)

**Prerequisites:** TDC413

**Required Textbook:** *VoIP and Unified Communications: Internet Telephony and the Future Voice Network, 1st Edition by William A. Flanagan March 2012 Publisher.*

**Reference Textbooks:** *Switching to VoIP A Solutions Manual for Network Professionals*

**By Theodore Wallingford Publisher: O'Reilly Media Final Release Date: June 2005**

**Carrier Grade VoIP by Irakli Natsvlishvili and Daniel Collins, McGraw-Hill Osborne Media; 3 edition (October 1, 2010)**

### **Course Description and Objective:**

TDC 464: Converged Multimedia Networks

Exploration of multimedia networks including voice, data, and video services offered by network carriers and Internet Service Providers (ISP) to both enterprise and residential customers. The course starts with an overview of current voice and data networks and presents the driving forces leading to a converged multimedia network. The focus is on Voice over IP (VoIP), including signaling, protocols, equipment, network architecture/design, traffic engineering, and service deployment strategy. PREREQUISITE(S): TDC 413.

### **Grading**

(7) Homework (Quizzes)	35% (Open Book and Notes, Online)
(4) Lab assignments	30%
Midterm	10%
Final	20%
Participation	5% (In-class participation and online discussions)

**Note: A student must score 60% or above in each exam to pass the course. The following scale is applied if the above condition is met, otherwise a grade of F will be assigned.**

A	90-100%
A-	87-89%
B+	84-86%
B	80-83%
B-	77-79%
C+	74-76%
C	70-73%
C-	67-69%
D+	64-66%
D	60-63%
F	< 60%

### **Notes:**

- **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.

- **Late assignments will not be accepted.** I am strict about this. Homework solutions are available right after a homework is due and I cannot accept any assignments submitted after that. **All due dates and time are given in the dropboxes.** Please check the schedule and be sure of the due dates. You must use the homework submission system (drop box) through d2l. If there are problems with the submission system, you may email me a copy of the assignment BEFORE the due time.
- The exams are **closed books and notes.**
- Class attendance is essential as lectures may cover topics outside the readings.
  - **For in-class students: Attendance is expected** for this class. To earn the full participation point for each class you **must be in class for the entire duration, participate in activities such as in class exercises, occasional quizzes, discussions, and be fully engaged. Engaging in activities not related to the class, such as (but not limited to) texting/emailing during the class, or working on assignments from another class, will result in lowered participation grade.** Also if there's a **documentable and acceptable** reason (such as being sick with a doctor's slip, or a note from your manager about work responsibility), make up for the participation points can be considered. **1 point** is assigned for each class (including midterm but excluding the final) with a maximum of **10 pts** total.
  - **For Online Learning students: Viewing of the lecture is expected.**
- 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.**
- **Wireless Internet Access Policy:** Please **do not** work on your laptops / Internet during class **except for course related activities.** If you need to do something un-related to the class, please leave the room and complete what you need to do.
- Please check DePaul's academic calendar <http://oaa.depaul.edu/what/calendar.jsp> for important dates such as last day to add/drop/withdraw from classes.
- **Please 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 are individual assignments. You should not work so close with another student as to produce solutions that are identical or almost identical.**
- - **Under no circumstances should you copy or use simple paraphrasing of someone else's work without giving proper credits and references.**

- **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. 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.

**Schedule (Tentative):**

Week#	Date	Topic	Readings	HW Quizzes	Labs
Week1	9-11	Introduction  Chapter 1: IP Telephony Disrupts Voice Telephony  Chapter 2: Traditional Telephones Still Set Expectations	Ch. 1, & 2	<b>HW 1 Quiz Online due Sunday by 11:59pm CST.</b>	
Week2	9-18	Chapter 3: From Circuits to Packets  Chapter 4: Packet Transmission and Switching  <b>Lab1</b>	Ch. 3, & 4	<b>HW 2 Quiz Online due Sunday by 11:59pm CST.</b>	
Week3	9-25	Chapter 5: VoIP Signaling and Call Processing	Ch. 5	<b>HW 3 Quiz Online due Sunday by 11:59pm CST.</b>	<b>Lab1 due Tuesday 11:59pm CST</b>
Week4	10-2	Chapter 6: VoIP and Unified Communications Define the Future  <b>Lab2</b> CDM 819 7:30 PM - 9:00 PM	Ch. 6	<b>HW 4 Quiz Online due Sunday by 11:59pm CST.</b>	
Week5	10-9	Chapter 8: Interconnections to Global Services Midterm Review	Ch. 8	<b>HW 5 Quiz Online due Sunday by 11:59pm CST.</b>	<b>Lab2 due Tuesday 11:59pm CST</b>
Week6	10-16	<b>Midterm (Closed Book and Notes)</b> <b>Lab3</b>			
Week7	10-23	Chapter 7: How VoIP and UC Impact the Network (pages 171–181)	Ch. 7, & 9	<b>HW 6 Quiz Online due Sunday by 11:59pm CST.</b>	<b>Lab3 due Tuesday 11:59pm CST</b>

		Chapter 9: Network Management for VoIP and UC			
Week8	10-30	Chapter 7: How VoIP and UC Impact the Network (pages 181–185) <b>Lab4</b> Part-I	Ch. 9		
Week9	11-6	Chapter 10: Cost Analysis and Payback Calculation  Chapter 11: Examples of Hardware and Software	Ch. 10, & 11	<b>HW 7 Quiz Online due Sunday by 11:59pm CST.</b>	<b>Lab4 Part-I due Tuesday 11:59pm CST</b>
Week10	11-13	<b>Lab4</b> Part-II  Final Exam Review			<b>Lab4 Part-II due Thursday 11:59pm CST</b>
Week11	11-20	<b>Final Exam (Online Closed Book and Notes)</b>			
		Your exam is due on November 20, 2018, from 6:00 PM to 8:15 PM			

### 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