

UNIVERSITY of HOUSTON

COLLEGE of TECHNOLOGY

DEPARTMENT OF INFORMATION AND LOGISTICS TECHNOLOGY

#	Class	Title	Days & Times	Room
2	CIS 3347-01 (12487)	Information Systems Infrastructure and Networks	TuTh 6:00PM - 9:00PM	TBA

Summer 2023

3 credit hours

Instructor Name: Dr. Ron Viseh

Instructor Website: <https://ron.viseh.com>

Office Hours: <https://meet.goto.com/119533261> (Only by appointment)

Email: mviseh@uh.edu

Other: Some course information is available via the Web through Canvas. Go to <https://canvas.uh.edu/> and log in to Canvas.

Class Sessions: Using GoToMeeting: <https://meet.goto.com/827614453>

NOTE: Please use only your UH.edu email to communicate with me. I will not respond to 3rd party emails such as, GMAIL, YAHOO, or others.

THE INFORMATION CONTAINED IN THIS CLASS SYLLABUS IS SUBJECT TO CHANGE WITHOUT NOTICE. STUDENTS ARE EXPECTED TO BE AWARE OF ANY ADDITIONAL COURSE POLICIES PRESENTED BY THE INSTRUCTOR DURING THE COURSE.

Learning Objectives

In this course, you will learn about business data communication concepts, infrastructure, architectures, components, protocols and standards. You will also learn how data communications, and new data communication concepts, can be used increase an organization's competitive position. In addition to a focus on evolving business concepts, the course includes and introduction to packet orientated communication processes and models.

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evolution of data communications impacts the competitive environment of all modern organizations.

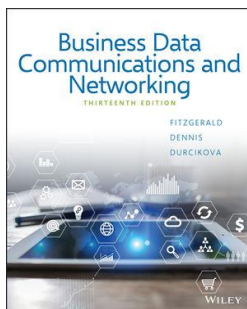
- Explain how the continuing evolution of modern data communications continues to impact the current competitive environment.
- For each layer, of both the ISO/OSI and TCP/IP model, describe its purpose, major protocols, and governing standard organizations.
- List and explain major standards organizations including the IEEE, Internet Society, IETF, IANA, ITU, ANSI, EIA/TIA.
- List and define communication system components, including clients, servers, wired and wireless communication devices, related software, and specialized security devices.
- Explain how major network devices communicate with each other.
- Explain relevant TCP/IP application protocols including DNS, HTTP, SIP, RTP and SMTP.
- List and explain the function of lower-level protocols including ARP and DHCP.
- Demonstrate protocol analysis as a method for network troubleshooting, and problem solving.
- List and explain evolving technologies impacting business data communications including virtualization and cloud computing.
- Compare and contrast wired and wireless networking.
- Explain TCP/IP related security issues.
- Compare and contrast IPv4 and IPv6.
- Name the different architectures that a network may have.
- Describe IP addressing.
- Demonstrate troubleshooting with basic TCP/IP utilities.

Pre-Requisites

C or better in CIS 2332, credit for or concurrent enrollment in TMTH 3360, and Computer Information Systems major or minor, or consent of program manager or program coordinator.

REQUIRED MATERIALS:

Textbooks to be purchased:



Title of Book: Business Data Communications and Networking, 13th ed, Jerry FitzGerald, Alan Dennis & Alexandra Durcikova
Publisher: Wiley
ISBN: 978-1-119-36883-0

COURSE ASSESSMENTS:

The course is graded using this breakdown of assessments.

Element	Percent
Assignments	30%
Final Exam	40%
Final Project	30%
Total	100%

END-OF-COURSE LETTER GRADE ASSIGNMENT:

90%+ of all Points	A range
80 – 89% of all Points	B range
70 – 79% of all Points	C range
60 – 69% of all Points	D range
< 60% of all Points	F

- No grades of Incomplete will be given.
- The instructor retains the right to subjectively evaluate an individual student's grade in appropriate cases.
- The instructor retains the right to determine at a later date if plus and/or minus will be used to modify a letter grade.

QUIZZES, HOMEWORK & EXAMS:

- It is beneficial for you to work on an everyday basis for this particular class.
- You are expected to read the assigned chapters before coming to class. Quizzes will be online on a regular basis. The quizzes will serve as a review of the previously covered lecture material or the assigned reading assignments.
- Anyone not confident of being present for the Midterm or Final exams should consider dropping.
- ***I do not accept late quiz or homework for any reason; late homework receives the same grade as no homework—zero.***

Assignment Submissions

- The assignment filename should include the student's last name, first initial, course code, dash, and assignment number or description (DoeJCIS3347-1B).
- Assignment's submission must be only in **Microsoft Word (writing and images)** and PDF format only for converted Microsoft Visio drawings.

- I will **NOT ACCEPT Zip, RAR, Image**, or programs output files as your assignment submission.
- Please use MEAL writing strategy in APA format only (check the Canvas for more information.)

COURSE DELIVERY

Online Courses: This course is an online course for this Summer.

INFORMATION TECHNOLOGY USED IN THIS COURSE:

The CIS/DIGM/TLIM program requires every student majoring in CIS/DIGM/TLIM to have their own laptop computer. For more information about laptop requirements, see:

[Laptop Recommendations - University of Houston \(uh.edu\)](#) (CIS)

[Degree Requirements - University of Houston \(uh.edu\)](#) (DIGM)

? (TLIM)

Software requirements plus other hardware required for this course include: (list any software or hardware requirements)

- USB flash drive for backing up work
- Canvas
- Webcam
- Respondus Lock-Down Browser
- MS Windows 10 or higher
- MS Office 2019 or higher

All of the software except MS Office are available for download and installation on your personal computer courtesy of Azure Dev Tools for Teaching. Office 365 is free to you as a student. For additional information, please visit the following:

<http://www.uh.edu/technology/college/technical-support/general-faq/>

TENTATIVE COURSE SCHEDULE

Readings are to be completed *prior* to class where listed.

(* No Late Submission with No Exception for Any Reason!)

Course Schedule				
Week	Dates	Lecture Topic	Assignment	Description
1	6/6	Orientation Network Components Chapter 1		<i>First day of class</i>
1	6/8	Chapter 2	Hands on 1B page 22-24* Hands on 4A page 107-109* Hands on 5A page 145-150* - multi sections	<i>Assignments are due by midnight on Friday</i>
2	6/13	Chapter 3		
2	6/15	Chapter 4 Chapter 5	Hands on 5B page 150-151* Hands on 5C page 151-152*	<i>Assignments are due by midnight on Friday</i>
3	6/20	Chapter 5		
3	6/22	***Network Design Review *** Chapter 7	Hands on 5D page 152-154* Hands on 5E page 154-155* Hands on 5F page 156-157*	<i>6/26/2023 - Last day to drop a course or withdraw with a W</i> <i>Assignments are due by midnight on Friday</i>
3	6/27	Chapter 8 Network Design Review	Hands on 11A page 334-335*	<i>Assignments are due by midnight on Friday</i>
4	6/29	Chapter 9 & 11 Network Design Review ***Final Project Due ***	Final Project Network Drawing including Hands on 8B page 234-235 and Hands on 7C page 212-213 (Only three floors Physical Topology) *	<i>Final Project are due by midnight on Saturday.</i> <i>Last day of class</i>
4	7/6	***Final Exam *** multiple-choice questions	CIS 3347-01 (12487) Thursday, July 6 from 6:00PM - 9:00PM*	
6	7/10	<i>Deadline for faculty to post Final Grades in myUH</i>		

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Software requirements plus other hardware required for this course include: (list any software or hardware requirements)

- USB flash drive for backing up work
- MS Teams, Zoom, and Canvas
- Webcam
- Respondus Lock-Down Browser
- MS Windows 10 or higher
- MS Office 2019 or higher

All of the software except MS Office are available for download and installation on your personal computer courtesy of Azure Dev Tools for Teaching. Office 365 is free to you as a student. For additional information, please visit the following:

ILT Department Policies

ILT ACADEMIC PREREQUISITE AND PROGRESSION REQUIREMENTS:

The Information & Logistics Technology Department strives to create the proper academic conditions for student success. Course content, technical skill development, professional practice in education, and program accreditation by professional organizations support using minimum grade or GPA requirements to enforce a program prerequisite structure. This practice, in turn, supports student success. Thus, course prerequisites are strictly enforced in all ILT Department courses.

The UH Interim Grading Policy applicable for Spring, Summer, and Fall 2020 explicitly stated that a program, department, or college may enforce a prerequisite or minimum GPA policy. Therefore, it is the policy of the ILT Department that the Catalog prerequisite structure and associated minimum grade or GPA requirements for its programs and courses be enforced for Fall 2020 grades that lead into Spring 2021 and beyond. This means that, even when Satisfactory (S) was the reported grade in Fall 2020, the letter grade assigned by the instructor determines whether the student has met the prerequisites for a future course. This helps to ensure students have the correct levels of knowledge to advance in the program and to prevent poor student outcomes in courses due to lack of prerequisite knowledge.

CLASS PROBLEMS:

Occasionally, there problems or concerns arise about the course you are taking. The ILT Department expects that you communicate with the course instructor about problems and concerns, first.

If problems or concerns cannot be resolved with the instructor, the next appropriate course of action is to contact the program coordinator, (Prof. Bret Detillier for CIS, Dr. Jerry Waite for DIGM, Professor Brian Mehring for TLIM). If the situation is still not resolved, contact the ILT Department Chair, Dr. Amaury Lendasse, to communicate your problems or concerns.

University of Houston Policies

Required Language for Courses with a Face-to-face Component

FACE COVERING POLICY: (REQUIRED LANGUAGE FOR COURSES WITH A FACE-TO-FACE COMPONENT)

To reduce the spread of COVID-19, the University strongly encourages everyone (vaccinated or not) to wear face coverings indoors on campus, including classrooms, for both faculty and students.

PRESENCE IN CLASS: (REQUIRED LANGUAGE FOR COURSES WITH A FACE-TO-FACE COMPONENT)

Your presence in class each session means that you:

- Are NOT exhibiting any [Coronavirus Symptoms](#) that make you think that you may have COVID-19
- Have NOT tested positive or been diagnosed for COVID-19
- Have NOT knowingly been exposed to someone with COVID-19 or suspected/presumed COVID-19

If you are experiencing any COVID-19 symptoms that are not clearly related to a pre-existing medical condition, do not come to class. Please see [Student Protocols](#) for what to do if you experience symptoms and [Potential Exposure to Coronavirus](#) for what to do if you have potentially been exposed to COVID-19. Consult the [Undergraduate Excused Absence Policy](#) or [Graduate Excused Absence Policy](#) for information regarding excused absences due to medical reasons.

Required Language for All Courses

COVID-19 INFORMATION:

Students are encouraged to visit the University's [COVID-19](#) website for important information including on-campus testing, vaccines, diagnosis and symptom protocols, campus cleaning and safety practices, report forms, and positive cases on campus. Please check the website throughout the semester for updates.

VACCINATIONS:

Data suggests that vaccination remains the best intervention for reliable protection against COVID-19. Students are asked to familiarize themselves with pertinent [vaccine information](#), and consult with their health care provider. The University strongly encourages all students, faculty and staff to be vaccinated.

REASONABLE ACADEMIC ADJUSTMENTS/AUXILIARY AIDS:

The University of Houston complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, pertaining to the provision of reasonable academic adjustments/auxiliary aids for disabled students. In accordance with Section 504 and ADA guidelines, UH strives to provide reasonable academic adjustments/auxiliary aids to students who request and require them. If you believe that you have a disability requiring an academic adjustments/auxiliary aid, please contact the [Justin Dart Jr. Student Accessibility Center](#) (formerly the Justin Dart, Jr. Center for Students with DisABILITIES).

EXCUSED ABSENCE POLICY:

Regular class attendance, participation, and engagement in coursework are important contributors to student success. Absences will be excused as provided in the University of Houston [Undergraduate Excused Absence Policy](#) and [Graduate Excused Absence Policy](#) for reasons including: medical illness of student or close relative, death of a close family member, legal or government proceeding that a student is obligated to attend, recognized professional and educational activities where the student is presenting, and University-sponsored activity or athletic competition. Additional policies address absences related to [military service](#), [religious holy days](#), [pregnancy and related conditions](#), and [disability](#).

RECORDING OF CLASS:

Students may not record all or part of class, livestream all or part of class, or make/distribute screen captures, without advanced written consent of the instructor. If you have or think you may have a disability such that you need to record class-related activities, please contact the [Justin Dart, Jr. Student Accessibility Center](#). If you have an accommodation to record class-related activities, those recordings may not be shared with any other student, whether in this course or not, or with any other person or on any other platform. Classes may be recorded by the instructor. Students may use instructor's recordings for their own studying and notetaking. Instructor's recordings are not authorized to be shared with *anyone* without the prior written approval of the instructor. Failure to comply with requirements regarding recordings will result in a disciplinary referral to the Dean of Students Office and may result in disciplinary action.

SYLLABUS CHANGES:

Due to the changing nature of the COVID-19 pandemic, please note that the instructor may need to make modifications to the course syllabus and may do so at any time. Notice of such changes will be announced as quickly as possible through email.

Acceptable Electronic Communications

All electronics communication to the professor must follow the below example:

Subject: CIS3347

Dr. Viseh,

Now you can start your question or request here...

Thanks, (Just in case you like to thank the recipient for taking his/her time to respond)

Sender Name as registered in Canvas.

RESOURCES FOR ONLINE LEARNING:

The University of Houston is committed to student success, and provides information to optimize the online learning experience through our [Power-On](#) website. Please visit this website for a comprehensive set of resources, tools, and tips including: obtaining access to the internet,

AccessUH, and Canvas; requesting a laptop through the Laptop Loaner Program; using your smartphone as a webcam; and downloading Microsoft Office 365 at no cost. For questions or assistance contact UHOnline@uh.edu.

UH EMAIL:

Check and use your Cougarnet email for communications related to this course. To access this email, [login](#) to your Microsoft 365 account with your Cougarnet credentials.

HONOR CODE STATEMENT:

Students may be asked to sign an honor code statement as part of their submission of any graded work including but not limited to projects, quizzes, and exams: *"I understand and agree to abide by the provisions in the (select: [University of Houston Undergraduate Academic Honesty Policy](#), [University of Houston Graduate Academic Honesty Policy](#)). I understand that academic honesty is taken very seriously and, in the cases of violations, penalties may include suspension or expulsion from the University of Houston."*

ACADEMIC HONESTY POLICY:

Students are expected to abide by the University of Houston Academic Honesty Policy in all matters pertaining to this course.

[Academic Honesty Policy – Office of the Provost](#)
[Academic Honesty Policy – Undergraduate Catalog](#)

OTHER IMPORTANT UNIVERSITY POLICIES AND HELPFUL INFORMATION:

UH DAPS: Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to college, or feeling sad and hopeless. You can reach CAPS (www.uh.edu/caps) by calling 713-743-5454 during and after business hours for routine appointments or if you or someone you know is in crisis. No appointment is necessary for the "Let's Talk" program, a drop-in consultation service at convenient locations and hours around campus. http://www.uh.edu/caps/outreach/lets_talk.html

Coogs Care: <https://www.uh.edu/dsaes/coogscare/>

Laptop Checkout Requests: <https://www.uh.edu/infotech/about/planning/off-campus/index.php#do-you-need-a-laptop>

Student Health Center: <https://uh.edu/class/english/lcc/current-students/student-health-center/index.php>

<https://uh.edu/academics/courses-enrollment/final-exam-schedules/#FallExam>

<http://publications.uh.edu/content.php?catoid=42&navoid=15325>

Good Luck!