Dillard College of Business Administration

Syllabus: Networking and Telecommunications
MIS 3303 Section 201, MW 9:30am-10:50am, DB324
Spring Semester 2021

Contact Information

Instructor: Jie Zhang, Associate Professor of Management Information Systems
Office: DB 218
Office hours: Monday 8:30 AM to 9:00 AM, 2 PM-4 PM; Tuesday 1:30 PM to 3:30 PM; Wednesday 8:30 AM to 9:00 AM
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Course Materials

1. Business Data Communications and Networking, 13th Edition by Fitzgerald, Dennis, and Durcikova; publisher: Wiley; ISBN: 978-1-119-36883-0
2. Testout Network Pro, ISBN: 978-1-935080-43-5
3. Software: Wireshark, Gpg4win full version (contains Cleopatra)
4. You must have access to a computer with a webcam that allows you to install needed software, access the course materials, and complete assigned tasks. For the standard computer requirements, please see page 53 on the University return to campus report. (Chromebooks won't work due to insufficient computing power.)

Course Description

Telecommunication and Networking applications as they apply to business. An introduction to the technical aspects of telecommunications and networking in business organizations.

Course Prerequisite(s)

MIS3003 and majoring or minoring in MIS.

Learning Goals

I. General Learning Goals:

- Problem solving and decision-making abilities through critical analysis, evaluation, and interpretation of business information. Students will demonstrate problem solving and decision-making ability through the design of a network solution to a fictional business scenario.

- Technology Utilization. Class lectures, demonstrations, and hands-on exercises involve expanded coverage of information technology, such as network traffic capture and analysis software.

These general learning goals are among those established by the Dillard College of Business Administration. General learning goals represent the skills that graduates will carry with them into their careers. While assessing student performance in obtaining these general learning goals, the Dillard College is assessing its programs. The assessments assist us as we improve our curriculum and curriculum delivery.

II. Course Specific Learning Goals: After completing this course, students should be able to:
- Identify the different types of communication connections and architectures
- Describe data and signal types and the relationship between them
- Describe the various types of wired and wireless media
- Discuss the various means for creating efficient connections
- Describe the various types of errors and explain how to detect, correct, and control them
- Describe what a local area network is and how they work
- Describe the various devices involved in connecting local area networks

- Define the Internet and discuss its various protocols
- Discuss network security
- Discuss network management.

Course Policies

Attendance Policy: Regular attendance is expected and roll will be taken. Upon a student's fifth unauthorized absence, that student may be dropped for nonattendance and receive a grade of WF for the course. Participation in class discussion is mandatory.

Missed Exam, Quiz, Assignment, and In-class Activity Policy: Students with excused absences may make up missed examinations, assignments, quizzes (announced and unannounced), and in-class activities, but supporting documents are required. Arrangements must be made in advance if at all possible. In all cases, the instructor must be contacted no later than the day of the scheduled exam or no make-up will be allowed. At the instructor's discretion, a deduction may be assessed for a late exam.

Excused absences include active military/police/firefighter assignment, jury duty, university-authorized absences (for example, athlete events or study-abroad programs), and medical emergency. Written documents must be provided for an absence to be considered an excused absence. For more information about university authorized absences, please refer to Midwestern State University Undergraduate Catalog: University policy: authorized absences

Grading and Evaluation

Student's performance will be assessed using the following elements.

- Four exams (4): Each exam will consist of T/F, Multiple choice, and possible essay questions. Exams will cover assigned chapters and in-class lectures. Students are responsible for all assigned textbook material, even if it is not directly discussed in class.
- Quizzes: Up to 50 points will be assigned to quizzes. Quizzes will generally not be announced in advance. Any points not assigned during the semester will be removed from the total possible for the course when calculating grade percentages.
- Attendance and participation: 50 points will be based on class attendance and participation. Absences will be excused only for approved school trips and serious health issues. Coming late, leaving early, absences, and non-participation in classes (such as web surfing and texting) will hurt your semester grade.
- Homework Assignments: Assignments are due before the starting of the class on the specified due date. There is NO PROVISION for late work on any assignment. Please plan and schedule to complete work early. All homework assignments are individual homework (not team/group/collaborative homework), unless otherwise specified by the instructor.

Points will be allocated using the following scheme. Grades will be based on the recorded points only. Personal reasons (e.g., need a specific grade to graduate, to keep financial aid, to keep straight A record, etc.) are not considered in the grade calculation.

Table 1: Points allocated to each element

Element	Points
Exam 1	100
Exam 2	100
Exam 3	100
Final exam/Exam 4	100
Quizzes	50
Attendance & Participation	50
Homework Assignments	100
Total Points	600

Table 2: Grading System

Letter Grade	Points
A	540 to 600
B	480 to 539
C	420 to 479
D	360 to 419
F	< 360

Academic Integrity

With regard to academic honesty, students are referred to the "Student Honor Creed", including the following statements: "We consider it dishonest to ask for, give, or receive help in examinations or quizzes, to use any unauthorized material in examinations, or to present, as one's own, work or ideas which are not on entirely one's own. We recognize that any instructor has the right to expect that all student work is honest, original work. We accept and acknowledge that responsibilities for lying, cheating, stealing, plagiarism, and other forms of academic dishonesty fundamentally rests with each individual student."

Academic dishonesty (cheating, lying, collusion, and plagiarism) will not be tolerated. The term "cheating" generally means representing someone else's work as your own and includes, but is not limited to:

1. Acting with intent to promote or assist cheating, including soliciting, encouraging, directing, or aiding attempts of fellow students to cheat on an exam or an assignment.
2. Soliciting information about exam questions from students who have taken a test.
3. Intentionally or negligently aiding someone taking an exam or quiz.
4. Looking or glancing at another student's exam while the exam is being taken.
5. Soliciting answers of an exam or an assignment from a fellow student.
6. Using any device to record a test, including eyeglasses, cellphones, watches, and calculators, etc.
7. Acquiring an exam or other academic testing material without the express permission of the professor who authored the exam.
8. Copying, disseminating, spreading, circulating, sharing, or publicizing any questions on an exam given for credit.
9. Violation of exam rules and procedures.

Academic integrity violations are grounds for being dropped from this class with an F and referral to the Dean of Students for disciplinary action, which may result in expulsion from the University.

Americans with Disabilities Act

If a student has an established disability as defined by the Americans with Disabilities Act and would like to request accommodation, that student should please contact me as soon as possible. Any student requesting accommodations should first contact Disability Support Services at 940-397-4140 in room 168 Clark Student Center to document and coordinate reasonable accommodations if you have not already done so.

Campus Carry Policy

Senate Bill 11 passed by the 84th Texas Legislature allows licensed handgun holders to carry concealed handguns on campus, effective August 1, 2016. Areas excluded from concealed carry are appropriately

marked, in accordance with state law. For more information regarding campus carry, please refer to the University's webpage at [campus carry policies webpage](#).

Syllabus Change Policy

This syllabus is a guide for the course and is subject to change. It is only a guide. It is not a contract. Syllabus changes will be communicated in class and may or may not result in document changes. If absent, it is the student's sole responsibility to find out from other students, or the instructor, if anything affecting the course requirements or schedule was announced in the classes missed.

Classroom Behavior:

- **You must follow MSU Covid19 classroom behavioral policies and procedures.**
- Face masks or appropriate face coverings are required in campus buildings by all students, faculty, and staff.
- Please come to class on time. Take care of personal business prior to class. I do not expect you to leave and return to class (unless there was an emergency and you explain it to me after class).
- Computers will remain off during class except as directed by the instructor. Class time is not for surfing the Web, monitoring Facebook, texting, or catching up on email. You will be asked to leave the class if you continually violate this policy. The same thing applies to cell phone usage for messaging during class. The class is held in a computer lab. There is no reason to bring a laptop. Laptops are not to be used during class except with the permission of the instructor.
- Turn off your cell phones and any other electronic devices and put them away. Please, no texting. I think we can all go a little over an hour without contact with the outside world! Leaving class to return calls and coming back is not acceptable. If you have an emergency that requires your cell phone to be on, let me know and we'll work something out.
- Dress appropriately and conduct yourself professionally and with respect toward your peers and the instructor. Any presentation should be treated professionally in terms of dress and demeanor. Please don't talk while the instructor or others are discussing course materials. Participating in the class is the best way to avoid disturbing the class.

Expectations for live stream:

- I expect that you'll be in the Zoom stream at the class start time and present for the entire stream.
- I expect your Zoom video to be turned on at all times during the stream.
- I expect that you'll be visible in the video at all times and paying attention.
- Be proficient at muting and unmuting your microphone, as I expect you to interact with the class in the stream. Expect to be asked to answer questions and provide comments.
- I expect you'll be attired just as you would if you were sitting in the classroom.

Course Schedule (see details in Table 3)

Please keep this syllabus as a reference! Students are responsible for all information contained in the syllabus and for any changes to the syllabus, which will be announced in class. Any modifications announced in class take precedent over the below schedule.

Course Schedule Table 3: The below table shows weekly schedule for major topics.

Week	Date	Day	Chapter	Topic
1	1/11	Monday	Introduction	Class Overview
	1/13	Wednesday	1	Introduction to Data Communications
2	1/18	Monday	No class	Martin Luther King's Birthday observed
	1/20	Wednesday	2	Application Layer
3	1/25	Monday	2	Application Layer
	1/27	Wednesday	3	Physical Layer
4	2/1	Monday	3	Physical Layer
	2/3	Wednesday	4	Data Link Layer
5	2/8	Monday	4	Data Link Layer
	2/10	Wednesday		Exam Review
6	2/15	Monday		Exam 1: Chaps 1 to 4
	2/17	Wednesday	5	Network and Transport Layers
7	2/22	Monday	5	Network and Transport Layers
	2/24	Wednesday	5	Network and Transport Layers
8	3/1	Monday	5	Network and Transport Layers
	3/3	Wednesday		Exam Review
9	3/8	Monday		Exam 2: Chaps 5
	3/10	Wednesday	6	Network Design
10	3/15	Monday	6	Network Design
	3/17	Wednesday	7	Wired and Wireless Local Area Networks
11	3/22	Monday	7	Wired and Wireless Local Area Networks
	3/24	Wednesday	8	Backbone Networks
12	3/29	Monday	9	Wide Area Networks
	3/31	Wednesday		Exam Review
13	4/5	Monday		Exam 3: Chaps 6 to 9
	4/7	Wednesday	10	The Internet
14	4/12	Monday	11	Network Security
	4/14	Wednesday	11	Network Security
15	4/19	Monday	12	Network Management
	4/21	Wednesday		Final/4th exam review
Final	4/26	Monday	Final/4th exam 8am-10am	Exam 4: Chaps 10 to 12