

Syllabus and Course Outline

MIS 524 Networking, Telecommunications and Security

Professor: *Dr. Bob Folden*

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Office Hours: *Monday and Wednesday 11:00 am to 12:00 pm
and
Tuesday 9:30 am to 12:00 pm
and
other times by special appointment.*

Course Description:

This course develops a managerial level of technical knowledge and terminology for data, voice, image, and video communications and computer networks to effectively communicate with technical, operational and management people in telecommunications. Students are expected to understand and apply data communications concepts to situations encountered in industry; learn general concepts and techniques of data communications; understand the technology of the Internet; understand the most important server and storage architectures and the main mechanisms for providing high-capacity processing and storage capacity; and understand the regulatory environment. The course develops capabilities that enable the students to make intelligent choices about computer architectures and platforms with appropriate emphasis on both organizational integration and flexibility.

Course Prerequisite(s):

MIS 128, CSci 126, ETec 224 or IET 101.

Course Objectives:

1. Identify and prioritize information assets.
2. Identify and prioritize threats to information assets.
3. Define an information security strategy and architecture.
4. Plan for and respond to intruders in an information system
5. Describe legal and public relations implications of security and privacy issues.
6. Present a disaster recovery plan for recovery of information assets after an incident.

“Requests from students with disabilities for reasonable accommodations must go through the Academic Support Committee. For more information, please contact the Office of Student Disability Resources and Services, Gee Library, Room 132 Phone (903) 886-5150 or (903) 886-5835.”

Accommodations

Students with Disabilities:

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

**Office of Student Disability Resources and Services
Texas A&M University-Commerce**

**Gee Library
Room 132**

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

StudentDisabilityServices@tamu-commerce.edu

Conduct

“All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment.” ([See Guidebook, p. 42-45](#))

Academic Integrity

Academic integrity is the pursuit of scholarly activity free from fraud and deception and is an educational objective of this institution. Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating of information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students

All work submitted to this Instructor may be submitted to an academic integrity verification service such as Turnitin.com.

You are responsible for authenticating any assignment submitted to this instructor. If asked, you must be able to produce proof that the assignment submitted is actually your own work. Therefore, it is recommended that you engage in a verifiable working process on assignments. Keep copies of all drafts of your work, make photocopies of research materials, keep logs or journals of your work on assignments, and papers, learn to save a version of assignments under individual filenames on computers or diskettes, etc.

The inability to authenticate your work, should it be requested, is sufficient grounds for failing an assignment.

Appeals Process:

Students taking online classes at Texas A&M University-Commerce have the same rights as students enrolled in face-to-face classes. The A&M-Commerce Student [Guidebook](#) (page 55) details those rights and explains complaint and grievance procedures, as well as the Student Code of Conduct. Students have the right to appeal course grades, [Guidebook](#) (page 35), admissions committee decisions, or any adverse action taken by any *online* faculty against any student. The appeal process is the same for all types of appeals.

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Projects:

You will be required to complete seven labs for this program. These will all be performed using the information contained in *Applied Networking Labs* by Randall Boyle (Prentice Hall, 2011).

Lab 01: Chapter 3 Web Tools

Lab 02: Chapter 1 DOS Commands

Lab 03: Chapter 6 Network Design

Lab 04: Chapter 2 Windows Utilities

Lab 05: Chapter 4 Virtualization

Lab 06: Chapter 5 Packet Analysis

Lab 07: Chapter 7 Wireless

Lab 08: Chapter 8 IIS

Lab 09: Chapter 10 Windows Server 2008

Lab 10: Linux

Lab 11: Apache

Essay Exams

There are three essay exams that must be completed during the semester. Each exam is a single question. You are to answer them in as much detail as possible. **You should support your answers from the literature. Your support must come from sources other than course textbooks.** You must document your sources or you may receive a zero for any work submitted. You may work offline to complete the exams and then copy and paste your answers into the appropriate space. You must submit them by the due date. I would recommend that you pace yourself so that you are not doing them all at one time. Your grade will be determined on the basis of the quality of your answer and not on the basis of quantity of answer.

These answers are to be solely your own effort. You are not to collaborate with other students or use another individual's or group's work without proper citation.

Discussions:

In this course, you will be expected to participate in Discussions weekly. Professional communication is always expected. In order to achieve the maximum number of points for your Discussion grade, please answer each thread on three separate levels:

- 1) Answer the posted question (10 points);
- 2) Respond to other's posted answers (6 points);
- 3) Reply to any persons who have responded to you (4 points).

Discussion questions and topics may be added to the discussion area throughout the Semester. You will need to visit the area regularly. You are to consider the question or topic and post an appropriate response. You should support your response with external sources (not textbooks) whenever appropriate. I will grade your responses based upon the quality of the response. This is to be an attempt to create a seminar environment where you will be able to increase one another's knowledge of the subject. You should visit this at least once a week to read the material and respond appropriately. You may add information at a later time as you would in a regular discussion.

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Graduate Student Class Project: Position Paper

You will be assigned to a team and will develop a position paper using the scholarly literature. You will answer the following question: “What is the future of networking?” This should be 8 to 15 pages long in addition to any reference list or introductory material like Title Page, Table of Contents, and Executive Summary. In other words, the body of your presentation should be about 8 to 15 pages in length. It will not be graded on length, but on content. The quality of your writing and logic will comprise the basis for your grade.

I will assign you to teams during the second week of class. If you have a problem with a teammate, I expect you to make an effort to work it out. If everything fails, then you need to bring me in as the external arbitrator to resolve the problem.

While you can include graphics in your presentation, they should not overshadow the logic and external support for that logic. You are not trying to ‘Wow’, but persuade me that you really know what you are talking about and I should pay attention to what you have to say or suffer dire consequences.

You will be graded on the quality of the work and the effort that you personally put into the project. Not all team members will necessarily receive the same grade for the project.

Position Paper

This paper should adhere to the APA Publication Manual 6th Edition. It should be typewritten. Quality is the issue, not quantity. **All major points should be supported** with citations from the literature. It needs to be uploaded to the appropriate drop box on eCollege. **You are required to submit this to turnitin.com for review at the time that you submit in the eCollege drop box. Failure to submit it to both turnitin.com and eCollege will result in the paper not being graded.**

Criteria	Points Possible	Points Awarded
Support (20% of Grade)		
Appropriate Support	100 points	_____
Clarity of Presentation (60% of Grade)		
Strategy, organization	75 points	_____
Completeness, Accuracy	75 points	_____
Clarity, coherence	75 points	_____
Fluency, written expression	50 points	_____
Overall effect, originality	25 points	_____
APA Publication Manual (15% of Grade)		
Adheres to 6 th Edition	75 points	_____
General English Mechanics (5% of Grade)		
Mechanics	25 points	_____
Total Points	500	_____

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Textbook(s) and Other Materials:

Required:

Data Communications and Computer Networks: A Business User's Approach, 7th Edition, Curt M. White, 2013, ISBN: 978-1-133-62646-6, Course Technology, Cengage Learning.

Applied Networking Labs, Boyle, R. 2011, Pearson Prentice Hall. ISBN: 0-13-231034-1

Grading:

Grading Percentages			
A =	90= percent of total points	Discussions	220
B =	80-89 percent of total points	Project 01	100
C =	70-79 percent of total points	Project 02	100
D =	60-69 percent of the total points	Project 03	100
F =	59- or less percent of the total points	Project 04	100
		Project 05	100
		Project 06	100
		Project 07	100
		Project 08	100
		Project 09	100
		Project 10	100
		Project 11	100
		Essay 1	100
		Essay 2	100
		Essay 3	100
		Position Paper	500
		Total Points Possible	2,120

Late assignments and tests may have points deducted from the final score.

Using someone else's words or ideas as if they were your own is plagiarism. The way to avoid this is to give credit to the author. Use citations to give credit to the author; you will gain the respect of other professionals, and you will also avoid an automatic F on the paper and most likely for the course.

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Course Outline and Assignments: This is only a proposal to guide you in your efforts to stay up with the course.

Unit	Date	Reading Assignment	Projects or Exams
1	2/5/2013	Chapters 1	
		Chapter 2	Project 1
		Chapter 3	Project 2 (Recommend completing Essay 1)
2	3/5/2013	Chapter 4	Project 3
		Chapter 5	Project 4
		Chapter 6	
3	4/5/2013	Chapter 6	Project 5
		Chapter 7	Project 6
		Chapters 8	Project 7 (Recommend completing Essay 2)
		Module A	Project 8
4	4/30/2013	Chapter 9	
		Chapter 10	Project 9 Position Paper (Recommend completing Essay 3)
		Chapters 11	Project 10
			Project 11 Drop Dead Date: All work is due (Nothing accepted after this date)
	5/10/2013		End of Class

⁺ Assignments are due 2359 hours (one minute before midnight) of the date that they are assigned.

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