

Syllabus and Course Outline

MIS 424 IT Infrastructure & Enterprise Architecture

Professor: *Dr. Bob Folden*

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Office Hours: *Tuesday and Thursday 11:00 am to 12:00 pm, 1:00 pm to 2:00 pm, 3:15-4:15, 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 Objectives:

1. The students will be able to understand the capabilities as well as the strengths and weaknesses of various computational, data, networking, and software architectures.
2. The students will be able to provide an understanding of managerial issues and technologies related to interoperability: issues and technologies.
3. The students will be able to provide an appreciation of the choice between open standards and proprietary solutions.
4. The students will be able to understand the product strategies of major hardware, software, and telecommunications vendors.
5. The students will be able to understand how national and global standards organizations influence architectural standards, regulations, and future developments.
6. The students will be able to design, implement and manage security and disaster recovery plans and business continuity from an overall organizational perspective.
7. The students will be able to examine issues related to the acquisitions and ongoing management of products, services, and contracts.

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.

Necessary Equipment:

You will need to have access to a Windows based system, preferably a Windows 7 Professional (64bit) system. While these Projects (labs) can be done on other systems, you will encounter varying degrees of difficulty completing them on other systems. You will also need administrator rights on any system you work on to both install and run much of the software required.

“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.”

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 Second Edition* by Randall Boyle (Prentice Hall, 2014).

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: Chapter 12 Linux

Lab 11: Chapter 9 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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Textbook(s) and Other Materials:

Required:

Business Data Networks and Security, CourseSmart eTextbook, 10/E
Panko & Panko

ISBN-10: 0133547035 • ISBN-13: 9780133547030

©2015 • Electronic Book, 528 pp • Available

Online purchase price: \$88.99

<http://www.pearsonhighered.com/educator/product/Business-Data-Networks-and-Security/9780133544015.page#sthash.KgZvoIpp.dpuf>

Business Data Networks and Security, 10/E

Raymond R. Panko, University of Hawaii

Julia Panko

ISBN-10: 013354401X • ISBN-13: 9780133544015

©2015 • Prentice Hall • Cloth, 480 pp

Published 09/10/2014 • Instock

Suggested retail price: \$222.00

- See more at: <http://www.pearsonhighered.com/educator/product/Business-Data-Networks-and-Security/9780133544015.page#sthash.KgZvoIpp.dpuf>

Applied Networking Labs, 2/E Randall J. Boyle & Jeffrey A. Clements

ISBN-10: 0133545180

Grading:

	Discussions	220
	Lab 01	200
	Lab 02	200
	Lab 03	200
	Lab 04	200
	Lab 05	200
	Lab 06	200
	Lab 07	200
	Lab 08	200
	Lab 09	200
	Lab 10	200
	Lab 11	200
	Essay Exam 1	100
	Essay Exam 2	100
	Essay Exam 3	100
	Total Points Possible	2,720

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	2/3/2015	Chapters 1, 1a, 1b	
		Chapter 2	Project 1
		Chapter 3	Project 2 (Recommend completing Essay 1)
2	3/3/2015	Chapter 4	Project 3
		Chapter 5, 5a, 5b	Project 4
		Chapter 6, 6a	Project 5
3	4/7/2015	Chapter 7	Project 6
		Chapter 8	Project 7 (Recommend completing Essay 2)
		Chapter 9	Project 8
4	5/8/2015	Chapter 10	Project 9 (Recommend completing Essay 3)
		Chapter 11	Project 10
			Project 11 Drop Dead Date: All work is due (Nothing accepted after this date)
	5/15/2015		End of Class

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

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