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Management Information Systems Syllabi

**Management Information Systems** 

2010

# 357-01 Telecommuncations and Networking

Adekunle Okunoye Xavier University

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#### INFO 357 – 01 TELECOMMUNICATIONS AND NETWORKING

#### **COURSE SYLLABUS**

CLASS LOCATION AND TIME: Alter 302, Tue and Thurs (11:30am – 12:45pm), Spring 2010

**INSTRUCTOR**:

Name Dr. Adekunle Okunoye
Email: okunoye@xavier.edu
Office Location: Room 319 Hailstones Hall
Office Hours: Monday 9:00am – 1:00pm

Tuesday and Thursday 1:00pm - 2:00pm

Or by appointment

Telephone: 513 745 3052 (office)

#### **COURSE DESCRIPTION**

The understanding of data communications and networking is imperative for adequate functioning of organizations. This is due to the convergence of computing, telecommunications and broadcasting and the growing applications of information technology in businesses and organizations. The knowledge of these key areas of information systems also becomes essential for competitive advantage. This course combines the basic technical concepts of data communications, telecommunications and networking with the managerial aspects and practical applications.

The global proliferation and continuous expansion of the networks and the advent of digital economy raises concern about privacy and security. This course will cover the fundamental issues that relate to privacy, computer forensics and network security and how organizations can minimize network and data communication risks. The course examines the fundamentals of networking while presenting the Open Systems Interconnection (OSI) layered architecture model. These will be approached with series of lectures, assignments and projects (individual and group), presentations, class discussions, and guest speaker presentations. The course presents the students with an opportunity to understand the concept of philanthropy while gaining practical experience on design and implementation of wired and or wireless network.

#### **MISSION**

At Williams College of Business, "we educate students of business, enabling them to improve organizations and society, consistent with the Jesuit tradition". In this course, we provide students with an understanding of the contemporary issues in telecommunications and networking and how these could be used to further the developments and productivity of an organization. The students will also learn how the people and the society are affected by these issues and how ethical standards could be maintained in a dynamic and competitive networked organizational environment. The students will collaborate with non-profit organizations to determine their telecommunication and networking requirements and work with the organizations in preparing grant application. The students will participate in the fair and objective evaluation of grant proposals and support the implementation of the project that wins the award.

#### **COURSE OBJECTIVES**

At the end of the course, the students should be able to:

• understand the basic concepts of data communications and networking

- have broad knowledge of technical aspects of data communications and networks
- identify various security risks to a network and ways to minimize them
- understand the current trends in telecommunications and networking and the implications for businesses and organizations.
- Understand the basic concepts of information assurance and its implications in network economy

# **PREREQUISITES**

Basic knowledge of microcomputers

(It is assumed that students have a basic knowledge of the Internet and network applications)

# REQUIRED TEXTS AND OTHER MATERIALS

## **Text (Required)**

Author: Ciccarelli P. et al

Title: Networking Basics, 2008

Publisher: John Wiley and Sons Inc. ISBN: 978-0-470-11129-1

*Author*: Ciccarelli P. et al with Frank Miller *Title*: Networking Basics Project Manual, 2008

Publisher: John Wiley and Sons Inc. ISBN: 978-0-470-12799-5

Note: The above two books are bundled specially for the course with ISBN 978 - 0 - 470 - 22106 - 8 and titled Wiley Pathways Networking Basics Project Manual Set.

# **Other Materials(required)**

Blackboard class web site - http://blackboard.xu.edu or through the Portal

# **COURSE POLICIES AND REQUIREMENTS**

Attendance and participation: You are expected to attend each class meeting and laboratory sessions. Each unexcused absence will be recorded as a zero score for that day in the Attendance/Participation area. The interactive approach of the class requires your active participation and this will be reflected in the Attendance/Participation portion of the grade distribution. Class participation will involve required reading assignments, group case preparation, and introduction by students of current issues related to the chapter material. For any group activity, you must be present to receive the group grade. If you are absent you will receive a zero for that group activity.

**Assignments, Quizzes and Exam**: All assignments are due at the beginning of class on the due days (given in the course schedule). Unapproved late submission of assignments **will be not accepted**. Failure to turn in an assignment results in zero. Approved late submission will not be extended beyond 7 calendar days after the due date. **There will be no make-up exam and quizzes**. Alternative provision may be made for those who missed the exams and /or quizzes due to emergency and for those who has informed the instructor ahead of the time.

**Academic Dishonesty**: Unless otherwise specified (e.g., group projects or presentations), all assignments should be done individually. If you are caught using other student's work at any point in the exercises or any part of the course will result in an F for the course and additional discipline according to the policy of Xavier University.

# TESTS, PRESENTATIONS AND EXAMS

- There will be two major quizzes at the dates to be announced
- There will be a Midterm and a Final exam based on the main reading textbook.
- There will be 12 lab exercises (Using the Project Manual)
- There will a group project/presentation

#### **LABS**

We will organize several laboratory sessions (as time permits) that will provide a hands-on introduction to some of the concepts discussed in the class. The lab sessions could also be used to try out the case assignments and exercises.

#### **GRADING**

Your final grade will be determined as listed below and explained further in a separate section of this syllabus. Each student is required to read the instructions for all assignments at the beginning of the course or when they are posted on blackboard. Any student who is unclear about any instruction should ask questions in class or see the professor immediately. You are expected to keep track of your own scores and class standing. You can also contact the instructor about the details of your scores before the final grading.

## **Grading Distribution**

Assignments (see	Grade %	Due Date	Scale			
additional information						
in below section)						
Quizzes	10	See Class Schedule	A	95-100	C+	77-79
Lab	15	See Class Schedule	A-	90-94	C	73-76
Assignments/Exercises						
(Group)						
Examinations	40	See Class Schedule	B+	87-89	C-	70-72
Attendance/Participati	10		В	83-86	D	60-69
on						
Group	25		B-	80-82	F	Below
Project/Presentations						60
Total	100					

#### **NOTE**

We live in dynamic times. Your exposure to information technology in this course should strongly support this fact. Events may dictate that changes be made to what appears above and/or to the course schedule and assignments. Every attempt will be made to minimize any change, but I reserve the right to make changes if necessary. Advance notice will, of course, be given to the students. And, the current versions of the course Blackboard pages are to be taken as official. It is the student's responsibility to work with the current versions of these pages. It is the instructor's responsibility to keep the versions current.

#### **Introduction (1% extra credit)**

**Individual assignment 1**: Introduce yourself to the instructor by email. Be sure to include your work background, your major and minor(s), and also indicate your ability to build a web page. Otherwise, tell what you think he needs to know about you. **Due by Thursday January 21, 2010**. See course syllabus for my email address.

#### **Quizzes** (10%)

The quizzes will cover the chapters discussed before the quiz (see schedule). All the quizzes are close-book.

#### Lab Assignments/Exercises (Group) (15%)

There will be twelve lab assignments / exercises that are based on real-world networking scenarios. This requires access to computers running Windows Server 2003 (and/or Windows XP). Some of the assignments might also involve working with communications cable, hubs, test equipment and other networking components. The assignments can be submitted on the assignment sheet (provided by instructor), or on separate pages.

#### **Attendance and Participation (10%)**

Regular attendance is required for success in this class. Your participation will be determined by how well you respond to questions and by the extent of your contribution to all discussions. Any student who must miss class due to an unavoidable circumstance should see the professor in person as soon as possible.

# **Examinations (40%)**

A midterm and final exam will be given covering the material in this book. Exams are expected to be completed within two hours. Each exam will be weighted the same. The final exam is not comprehensive.

# **Group Project/Presentations (25%)**

The goal of this project is to create opportunity for you to study and report the telecommunications and networking systems of a real organization. You can use the organization where you work or choose another organization. You can contact me if you need any assistance in selecting the organization and about the scope of the project. The project includes preparation of a comprehensive 5-10 pages report (single-spaced, word-processed with one inch margins) and 10-15 minutes presentation of the summary of the report. You are also required to create a website for the project. The website should contain the personal information about each member of the group, the project proposal, the detailed report and the presentation slides. More details will be provided in class.

#### The report

The first part of the report should describe the details of the organization's network technology. This report should cover both hardware and software components of the network. The entire network layout should also be presented diagrammatically in the report. The report should specify the possible direction of growth of the network with the consideration to the recent changes in network technology e.g. how the wireless communication technology could change the current network? Could they extend the network through modern networking technology etc. The second part of the report should focus on the utilization of the network (e-commerce, Intranet etc) and the how it affects the operations of the organization. It should cover the network management policies and procedures in this organization and the access control and network security. All the problems you observe or that could arise with the network should be included in the report. The conclusion should include recommendation for improvement to the network and how it could be better utilized for organizational processes.

#### The proposal

Prepare a one page overview of the project that includes the names of group members and email address, organization name, name of contact at organization. The proposal is due for submission on February 23, 2010

# **Tentative Class Schedule (INFO 357 -01)**

Tuesday, January 12, 2010 Thursday, January 14, 2010 Tuesday, January 19, 2010 Thursday, January 19, 2010 Thursday, January 21, 2010 Thursday, January 21, 2010 Tuesday, January 26, 2010 Thursday, January 28, 2010 Thursday, January 28, 2010 Thursday, January 28, 2010 Thursday, January 28, 2010 Thursday, February 02, 2010 Thursday, February 04, 2010 Thursday, February 04, 2010 Thursday, February 04, 2010 Thursday, February 11, 2010 Thursday, February 13, 2010 Thursday, February 14, 2010 Thursday, February 15, 2010 Thursday, February 16, 2010 Thursday, February 17, 2010 Thursday, February 18, 2010 Thursday, February 25, 2010 Thursday, March 02, 2010 Thursday, March 04, 20	Wks	Date	Class Topics	Assignments/Readings	Remarks
Thursday, January 14, 2010  Tuesday, January 19, 2010  Thursday, January 21, 2010  Tuesday, January 21, 2010  Tuesday, January 21, 2010  Tuesday, January 21, 2010  Tuesday, January 28, 2010  Thursday, January 28, 2010  Tuesday, February 02, 2010  Thursday, February 11, 2010  Thursday, February 11, 2010  Thursday, February 11, 2010  Thursday, February 11, 2010  Thursday, February 13, 2010  Thursday, February 14, 2010  Thursday, February 15, 2010  Thursday, February 18, 2010  Thursday, February 28, 2010  Thursday, February 29, 2010  Thursday, February 29, 2010  Thursday, February 20, 2010  Thursday, March 04, 2010  Thursday, March 04, 2010  Thursday, March 04, 2010  Thursday, March 04, 2010  Thursday, March 09, 2010	1			Chapter 1	
Tuesday, January 19, 2010 Thursday, January 21, 2010 Tuesday, January 28, 2010 Thursday, January 28, 2010 Thursday, January 28, 2010 Thursday, January 28, 2010 Thursday, February 02, 2010 Thursday, February 09, 2010 Thursday, February 09, 2010 Thursday, February 11, 2010 Thursday, February 11, 2010 Thursday, February 18, 2010 Thursday, February 23, 2010 Thursday, February 24, 2010 Thursday, February 25, 2010 Thursday, February 26, 2010 Thursday, February 27, 2010 Thursday, February 28, 2010 Thursday, February 29, 2010 Thursday, February 20, 2010 Thursday,					
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Tuesday, January 19, 2010 Thursday, January 21, 2010 Tuesday, January 22, 2010 Thursday, January 26, 2010 Thursday, January 26, 2010 Thursday, January 28, 2010 Thursday, January 28, 2010 Thursday, February 02, 2010 Thursday, February 04, 2010 Thursday, February 09, 2010 Thursday, February 16, 2010 Thursday, February 16, 2010 Thursday, February 18, 2010 Thursday, February 18, 2010 Thursday, February 18, 2010 Thursday, February 23, 2010 Thursday, February 23, 2010 Thursday, February 25, 2010 Thursday, March 04, 2010 Thursday, March 04, 2010 Thursday, March 04, 2010 Thursday, March 09, 2010		2010			
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Chapters 1-4)  Tuesday, February 02, 2010  Thursday, February 04, 2010  Tuesday, February 09, 2010  Thursday, February 11, 2010  Thursday, February 13, 2010  Thursday, February 16, 2010  Thursday, February 18, 2010  Thursday, February 18, 2010  Thursday, February 23, 2010  Thursday, February 23, 2010  Tuesday, February 23, 2010  Tuesday, February 25, 2010  Thursday, March 04, 2010  Spring Break  Tuesday, March 04, 2010  Tuesday, March 09, 2010  Tuesday, March 09, 2010  Tuesday, March 09, 2010  Tuesday, March 09, 2010					
4 Tuesday, February 02, 2010 Thursday, February 04, 2010 Tuesday, February 09, 2010 Thursday, February 11, 2010 Thursday, February 11, 2010 Thursday, February 14, 2010 Thursday, February 16, 2010 Thursday, February 18, 2010 Thursday, February 18, 2010 Thursday, February 23, 2010 Thursday, February 23, 2010 Thursday, February 25, 2010 Thursday, February 25, 2010 Thursday, February 25, 2010 Thursday, February 25, 2010 Thursday, March 04, 2010 Thursday, March 04, 2010 Thursday, March 04, 2010 Thursday, March 09, 2010 Tuesday, March 09, 2010 Tuesday, March 09, 2010 Thursday, March 09, 2010			Network Architecture and Topologies		Projects 1-2 due for submission
Thursday, February 04, 2010  Tuesday, February 09, 2010  Thursday, February 11, 2010  Tuesday, February 16, 2010  Tuesday, February 16, 2010  Thursday, February 18, 2010  Thursday, February 18, 2010  Thursday, February 23, 2010  Tuesday, February 23, 2010  Tuesday, February 24, 2010  Thursday, February 25, 2010  Thursday, February 25, 2010  Thursday, February 25, 2010  Thursday, February 25, 2010  Thursday, March 04, 2010  Spring Break  Tuesday, March 04, 2010  Tuesday, March 09, 2010				cnapters 1-4)	
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5 Tuesday, February 09, 2010 Thursday, February 11, 2010 Tuesday, February 16, 2010 Thursday, February 18, 2010 Thursday, February 21, 2010 Thursday, February 23, 2010 Thursday, February 23, 2010 Thursday, February 25, 2010 Thursday, March 02, 2010 Spring Break Thursday, March 04, 2010 Tuesday, March 09, 2010					
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Tuesday, February 16, 2010  Thursday, February 18, 2010  Tuesday, February 23, 2010  Thursday, February 23, 2010  Thursday, February 25, 2010  Thursday, February 25, 2010  Thursday, February 25, 2010  Thursday, February 25, 2010  Thursday, March 02, 2010  Spring Break  Thursday, March 04, 2010  Tuesday, March 04, 2010  Tuesday, March 09, 2010  Tuesday, March 09, 2010  Tuesday, March 09, 2010  Tuesday, March 09, 2010		2010			
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Thursday, February 18, 2010  Tuesday, February 23, 2010  Thursday, February 25, 2010  Thursday, February 25, 2010  Thursday, February 25, 2010  Thursday, March 02, 2010  Spring Break  Thursday, March 04, 2010  Spring Break  Tuesday, March 09, 2010  Tuesday, March 09, 2010  Tuesday, March 09, 2010  Tuesday, March 09, 2010		2010			
Thursday, February 18, 2010  Tuesday, February 23, 2010  Thursday, February 25, 2010  Thursday, February 25, 2010  Tuesday, March 02, 2010  Spring Break  Thursday, March 04, 2010  Tuesday, March 09, 2010	6	Tuesday, February 16,	Network Protocols and TCP/IP		
Thursday, February 25, 2010  Thursday, February 25, 2010  Thursday, March 02, 2010  Spring Break Thursday, March 04, 2010  Thursday, March 09, 2010  Tuesday, March 09, 2010  Tuesday, March 09, 2010  Tuesday, March 09, 2010  Tuesday, March 09, 2010		2010			
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Thursday, February 25, 2010  Tuesday, March 02, 2010  Tuesday, March 04, 2010  Tuesday, March 09, 2010		2010			
Thursday, February 25, 2010  Mid Semester Exam  Tuesday, March 02, 2010  Spring Break  Thursday, March 04, 2010  Spring Break  Tuesday, March 09, 2010  Tuesday, March 09, 2010  Tuesday, March 09, 2010  Tuesday, March 09, 2010	7	Tuesday, February 23,	Labs (5 and 6)		
2010 8 Tuesday, March 02, 2010 Spring Break Thursday, March 04, 2010 Spring Break 9 Tuesday, March 09, 2010 Chapter 8 Projects 5-6 due for submission		2010			
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8 Tuesday, March 02, 2010 Spring Break Thursday, March 04, 2010 Spring Break 9 Labs (7) Chapter 8 Projects 5-6 due for submission			TAR SOMEONE LAMIN		
Thursday, March 04, 2010 Spring Break  9 Labs (7) Chapter 8 Projects 5-6 due for submission	8	Tuesday, March 02, 2010	Spring Break		
9 Labs (7) Chapter 8 Projects 5-6 due for submission		•	Spring Break		
	9	•	Labs (7)	Chapter 8	Projects 5-6 due for submission
Wireless, Remote and WAN		Tuesday, March 09, 2010			
			Wireless, Remote and WAN		
Thursday, March 11, 2010		Thursday, March 11, 2010			
10 Tuesday, March 16, 2010 Wireless, Remote and WAN Chapter 9 Project 7 due for submission	10		Wireless, Remote and WAN	Chapter 9	Project 7 due for submission

	Thursday, March 18, 2010	Network Servers and Services Fundamentals		
11	Tuesday, March 23, 2010	Labs (8 and 9)	Prepare for Quiz 2 (Revise Chapters 5-9)	
	Thursday, March 25, 2010	Quiz 2 (Chapters 5 - 9)		
12	Tuesday, March 30, 2010	Labs 10		
	Thursday, April 01, 2010	Easter Holiday		Projects 8-9 due for submission
13	Tuesday, April 06, 2010	Wide Area and Enterprise Networking Services	Chapter 10	
	Thursday, April 08, 2010	Wide Area and Enterprise Networking Services		Project 10 due for submission
14	Tuesday, April 13, 2010	Network Management and security	Chapters 11 and 12	
	Thursday, April 15, 2010	Network Management and security		Project 11 due for submission
15	Tuesday, April 20, 2010	Lab (11)		
	Thursday, April 22, 2010	Lab (12)		
16	Tuesday, April 27, 2010	Presentations		Project 12 due for submission
	Thursday, April 29, 2010	Presentations		
17	Tuesday, May 04, 2010	Final Exam (Comprehensive - Labs and Concepts)		