

CIS 634 Management of Telecommunications and Networking (Spring 2010)

Instructor Information

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Office Hours: **Monday 10:20 – 11:20, 11:30 – 12:30, 1:50 – 2:50, 3:00 – 6:00**

Course Information

Concepts fundamental to achieving telecommunications in a computer environment. Topics will include LANS, WANS, distributed networks, the Internet, Intranets, computer telephony integration and management issues related to the analysis and application of the systems. Technology including network protocols and the OSI model; media including twisted pair, coaxial, hybrid coax and fiber; connectivity technology including bridges, routers and gateways; cellular, satellite and microwave, wireless.

Upon successful completion of this course, students should:

- Be familiar with telecommunications and networking environment
- Have a basic understanding of various types of telecommunications and networking technologies
- Understand how telecommunications and networking systems work
- Have the ability to analyze the business value of telecommunications and networking systems
- Be able to find current and emerging telecommunications and networking technologies

Class Materials

The main textbook for this course is

Data Communications and Computer Networks: A Business User's Approach by Curt White, Course Technology (CENGAGE Learning), 2009.

Other course materials will be provided by the instructor when they are needed. These include, but not limited to, lecture notes, video lectures, etc.

Library materials (e.g., journal articles, books, etc.) are also to be used so that students should have Internet access.

Teaching Method and Evaluation

This course requires students to read the textbook thoroughly. Complete understand of the textbook is required and students should post their comments or questions/answers on the MSU Blackboard Discussion Board forums. This activity will help the instructor understand students' progression and will be counted towards Participation points.

Periodically written assignments will be given to evaluate students' mastery of the course. Diligent reading of the textbook will help students complete the assignments successfully. Additional lecture notes (text or video clip) will also be provided to help students.

Students' understanding of the concepts and technologies will be evaluated with a series of written exams. The MSU Blackboard course website will be used as a channel. Each exam will include multiple-choice questions as

well as other types (e.g., True-False questions).

Comprehensive achievement of each student will be tested by a term project. For the project, you will have to apply all the knowledge and skills you learn in this course. The project will be evaluated according to the two main guidelines: content (how well a student understands the concepts and technologies) and presentation (how well a student explains them in a complete and concise manner) and more detailed instructions will be provided later in the semester.

The activities shown in the following table will be used to provide the final grade.

Category	Points
Exams	120
Assignments	80
Participation	100
Project	100
Total	400

The total points earned will be used to provide a student's final grade. For instance, if a student gets 360 points or more, his grade will be an A; less than 360 but 320 or more, a B; less than 320 but 280 or more, a C; less than 280 but 240 or more, a D. If a student gets less than 240, the grade will be an E (failure).

Campus Safety Statement: Emergency response information will be discussed in class. Students should familiarize themselves with the nearest exit routes in the event evacuation becomes necessary. You should notify your instructor at the beginning of the semester if you have special needs or will require assistance during an emergency evacuation. Students should familiarize themselves with emergency response protocols at www.moreheadstate.edu/emergency.

Academic honesty: Cheating, fabrication, plagiarism or helping others to commit these acts will not be tolerated. Academic dishonesty will result in severe disciplinary action including, but not limited to, failure of the student assessment item or course, and/or dismissal from MSU. If you are not sure what constitutes academic dishonesty, read *The Eagle: Student Handbook* or ask your instructor. The policy is located at <http://www.moreheadstate.edu/files/units/dsl/eaglehandbook/studenthandbook2008-09.pdf> [pgs.11 & 39]. For example, copying information from the Internet is plagiarism if appropriate credit (i.e., citation) is not given.

Policy for Accommodating Students with Disabilities: Professional staff from MSU Academic Services Center (ASC) coordinates efforts to address accessibility needs and class accommodations with instructors of students who have learning or physical disabilities. Faculty will cooperate with the ASC staff to accommodate the needs of students taking departmental courses.

Policy on Late Submission and Missing Exams or Quizzes: Assignments which are submitted after the due date will not be accepted. Makeup exams or quizzes will not be given in any circumstances. The only exception is when an official document with authoritative signature is provided.

Technology Requirements: Students will need access to a personal computer and Internet (WWW) connection with electronic mail. For more information on technology requirements for online courses, students should refer to the MSU Information Technology website (<http://www.moreheadstate.edu/it/>).

Temporary Schedule***

Week	Contents	Reading
1	Introduction	Chapter 1
2	Data and Signals	Chapter 2
3	Media	Chapter 3
4	Review Exam 1	
5	Network Connections	Chapter 4
6	Multiplexing and Compression	Chapter 5
7	Error Control	Chapter 6
8	Review Exam 2	
9	Basics of LAN	Chapter 7
10	More of LAN	Chapter 8
11	MAN and WAN	Chapter 9
12	Review Exam 3	
13	The Internet	Chapter 10
14	Voice and Data Network	Chapter 11
15	Network Security and Management	Chapters 12, 13
16	Review Exam 4	Project Due
17	Final	

***** The instructor reserves the right to change any portion of this syllabus at any time.**