

MIS 470 – Data Communications and Networks
Creighton University, College of Business Administration
Monday 6:15 – 9:00pm
Spring Semester 2002

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<http://eden.creighton.edu/mis470>

Course Resources

The textbook is *Business Data Communications and Networking* by Panko, third edition. The ISBN is 0-13-088262-3. We will also use *TCP/IP Jumpstart: Internet Protocol Basics* by Blank. The ISBN is 0-7821-2644-8. Our course website is <http://eden.creighton.edu/mis470>. Check the link to *news* for updated class information before every class. We also have a class listserv, called mis470@creighton.edu that you should subscribe to.

You will also need a Creighton University email account, an account on Grackle, and access to the World Wide Web, either at a computer lab, home, or office. I will provide some of the supplements. Others will require a library or World Wide Web (WWW) search by the student. I will also use two supplementary texts that you might consider borrowing or sharing with other students. They are: *Network + Study Guide* by David Groth, Sybex publishers, ISBN 0-7821-2863-7 and *Cabling: The Complete Guide to Network Wiring*, second edition, by Groth, McBee and Barnett, Sybex publishers, ISBN 0-7821-2958-7.

Contact Information

I am a Creighton staff member, and my office is located in BA 112A. I am at work generally from 8:00am to 4:30pm, Monday through Friday. See above for phone and email information. You can also check outside my office door for my weekly schedule. If you send email with attachments, please note that Creighton does not allow emails over 1.5 megabytes in size. When you email, please use a subject line with the words **MIS 470** in the title so I can identify the message in my inbox easier.

Course Objectives

The course introduces the student to data communications concepts and terminology. The focus is on network design and management in a constantly changing environment. Specific communication-intensive business applications are considered and discussed. They include the Internet, EDI, inter-organizational information systems, and global network applications. Specific emphasis will be placed on the TCP/IP networking protocol, as it is the most common network protocol in use today.

Homework and In-Class Assignments

There will be several homework assignments throughout the semester in order to illustrate important concepts in the course. Some assignments will be completed in class using hardware and software specific to the assignment. More information will be given on each assignment as they arise.

Group Projects and Presentation

Working in one of six groups, students will explore one specific area of networking. Each group will have a project and present a paper and a working network to the class during the final exam time, Monday May 6th. More information will be given on a separate handout and webpage.

Tech Tips and News

There is always something new and exciting in the technology field. Twice during the course you will make a presentation to the class on an interesting website, a new product, a new service, or something new and exciting in the technology field. You can use any of the presentation media in the classroom. You must turn in a one-page sheet to me describing to me your site, item or news as you present your Tech Tip and News. Each item should take about three to five minutes to present.

Quizzes

There will be a total of twelve quizzes. A quiz cannot be made up under any circumstances. Quizzes may be short answer, true/false, matching or multiple choice or other types. They may be given out on paper, assigned via email or on a web page. The quizzes may be “open” or “closed” in regards to using reference materials depending on the topics covered.

Grading and Grading Scale

The student is required to take notice of where he or she stands in regards to their performance and attendance in this class. If special needs arise, or there is a problem with the student's attendance, or grade, the student is responsible for contacting the professor to discuss those concerns, in as timely a manner as is reasonable. Students may contact me by any of the methods listed earlier at any time. Email and telephone voicemail are available 24 hours a day. *Failure on the part of the student to proceed under these guidelines, or to violate any rules set out in this syllabus, or in the Student Handbook, including those dealing with academic honesty, may result in a lowering of the student's grade, or a grade of F or AF, at the discretion of the professor.*

The following are the grades and their descriptions available to the students. A student's grade totally depends on what he or she has achieved during the course: the grades will be earned, not given.

"A" indicates not only outstanding achievement but also an unusual degree of intellectual initiative.

"B" indicates attainment of above the average, satisfactory for 500-level courses.

"C" indicates satisfactory but minimum quality work in courses above the 500-level.

"D" indicates failure—no credit.

Percentage Grade	Letter
90–100%	A
88-89%	B+
80-87%	B
78-79%	C+
70-78%	C
60-69%	D
59% or less	F
Incomplete	I
Final Exam Not Taken (Presenting paper in class)	IX

The point values of the assignments and exams are given below:

ITEM	Points
Quizzes (10 @50 points each)	500
Assignments (6 @50 points each)	300
Tech Tips and News (2 @50 points each)	100
Group LAN project	400
TOTAL	1300

Make-Up and Late Policy

All assignments that are handed in late will be docked 10% per day that they are late, unless arrangements have been made at least 24 hours before the due date. The term **LATE** refers to all assignments turned in after the class time on the assignment's due date.

Attendance Policy

Please note that all students are expected to attend every class session on time. Students are responsible for the material covered each class time, and missed notes, handouts and URL's should be obtained from another student who was in class that day. In the case of severe weather closings and cancellations, call the Creighton Weather Hotline at 280-5800 to find out if classes are in session.

Email and News Policy

Please note that all students are expected to check their email at least daily, and preferably more often. Students should also check our class news page, at http://eden.creighton.edu/mis470/news/news_and_views.htm. *Attention AOL and Hotmail users:* I cannot be responsible for the multiple problems that AOL and Hotmail can bring, such as refused mail, mail treated as spam and deleted, and mail bounced back due to the user being over quota. Based on past experience, I strongly suggest that you avoid these services.

Course Outline and Assignments

January 21	Introductions and Administrivia Syllabus and Class Overview Computer Data Form Quiz 00 Set up <i>AMI</i> accounts, etc.
January 28	Panko Chapter One, <i>Basic Concepts and Principles</i>
February 4	Panko Module D, <i>Telephone Service</i> Panko Chapter Five, <i>Modems and Beyond</i>
February 11	Blank Chapter One, <i>The Origin of TCP/IP and the Internet</i> Blank Chapter Two, <i>Protocols</i>
February 18	Blank Chapter Three, <i>The Network Interface and Internet Layers</i> Blank Chapter Four, <i>The Transport Layer</i> Blank Chapter Five, <i>The Application Layer</i>
February 25	Blank Chapter Six, <i>IP Addressing</i> Blank Chapter Seven, <i>Addressing IP Hosts</i> Blank Chapter Eight, <i>Subnet Masks</i>
March 4	Blank Chapter Nine, <i>Name Resolution</i> Blank Chapter Ten, <i>Domain Name System (DNS)</i> Blank Chapter Eleven, <i>Windows Internet Naming Service (WINS)</i>
March 11	NO Class – Spring Break Week
March 18	Panko Chapter Six, <i>A Small PC Network</i>
March 25	Panko Chapter Seven, <i>Small Ethernet LANs</i>
April 1	Catch-Up Day; To Be Determined <i>NOTE: This is Easter Monday, and classes resume at 5:00pm</i>
April 8	Panko Chapter Eight, <i>Larger Site Networks</i>
April 15	Panko Chapter Nine, <i>Wide Area Networking</i>
April 22	Panko Chapter Ten, <i>Security</i> Panko Module F, <i>More On Security</i>
April 29	Catch-Up Day; To Be Determined
May 6	Final Exam Day Projects due Paper and Website presentations starting at 6:15pm