COMS 462 Data Communications and Networking I (03)  4 credits
Course Syllabus  Fall Semester 2000

Professor:  Dr. Mahbubur Rahman Syed, Office:WH227, Email: mahbubur.syed@mankato.msus.edu
            Phone: (507) 389 3226  Subject URL: http://krypton.mankato.msus.edu/~syedm/coms462f/

Class Meeting Times: Tuesday and Thursday 04:00PM-05:50PM WH284;
Office Hrs: 09:00-10:00AM T (by appointment); 10:00AM-12:00 AM WF; 12:00-1:00PM F; by appointment

Course Descriptions

Delivery Method: The course content will be delivered through lectures face to face in the designated class rooms. The students will require to complete readings, assignments and projects.

Goals and Objectives: The intent of this course is to introduce the students to the field of data communications and computer networking. This topic is very broad, encompassing telecommunication, local area networks and wide area networks. We will therefore look briefly at many subtopics along with discussing current trends in communication technology. After completion of this course the students will have knowledge on data communication and networking concepts and understanding of the various application-oriented communication protocols in an open environment.


Additional materials will be made available on-line in the subject web page (URL: http://krypton.mankato.msus.edu/~syedm/coms462f/).

Grading: Final semester grades in this course will be based on the following evaluation:

Point Breakdown,

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid-term Exam</td>
<td>100</td>
</tr>
<tr>
<td>4-6 Quizzes</td>
<td>80</td>
</tr>
<tr>
<td>Final</td>
<td>120</td>
</tr>
<tr>
<td>Review Quiz</td>
<td>10</td>
</tr>
<tr>
<td>Review assignment</td>
<td>10</td>
</tr>
<tr>
<td>Project/assignments</td>
<td>80</td>
</tr>
</tbody>
</table>

Make-Up: No MAKE-UP EXAMS or Quizzes will be allowed for any reason. However, there will be a comprehensive exam (100 points) towards the end of the semester, which may be used for improving grades or for a make-up of the mid-term, if necessary. 1 of the quizzes with the lowest grade will be dropped, which may be used for improving grade or for a make-up.

Assignments are to be handed in on time. Any assignment can be turned in before the due date. You may turn in a project submission/assignment after it is due, but with the following penalty (independent of any reason for late submission):

- 10% off for each 24 hours up to 48 hours.
- 15% off for each 24 hours after 48 hours.

Plan to submit your project/lab/assignment before the due date to avoid any unforeseen last moment situation and to avoid penalties. Loss of data and damage of disk will not be accepted as an excuse for not having a project/assignment completed. Keep necessary backups to safeguard your data. You must keep copies or backup of your works before you submit. All materials submitted must be neatly done, stapled and have the submission title, submission date, and your name written clearly on the front page of these materials.
Letter Grades: Points accumulated from the examinations, assignment and Quizzes (400 total points) and class performance will be used in assigning a course grade as shown below.

90-100% of possible points earns an A
80-89% of possible points earns a B.
70-79% of possible points earns a C.
60-69% of possible points earns a D.
Below 60% of possible points earns an F

NO incomplete grades are given except as stated in the University policy. Any one with more than one unauthorized absence in the class during the semester cannot earn an ‘A’ grade in the final and will be lowered to a B grade. Any one with 100% attendance in the class will earn 4 extra points to the total.

Tentative Exam weeks and dates: (The dates may be changed depending on the progress in the class)
Mid-term Exam: week starting November 6
Comprehensive-Make-up Exam: week starting November 27
Final: As detailed in the summer course schedule.

All examinations will be comprehensive.

Tentative Course Coverage
A tentative course coverage is shown below and may require updating during the semester. Announcements regarding changes will be made in the class.

<table>
<thead>
<tr>
<th>Estimated Time</th>
<th>Topic</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 weeks</td>
<td>Introduction to the course, Introduction and Basic Concepts of Data Communications and Networking, OSI model</td>
<td>Chapter 1- 3 of Text book. Appendix A-C</td>
</tr>
<tr>
<td>2 weeks</td>
<td>Signals, encoding and modulating, modems, transmission media and switching.</td>
<td>Chapter 4-7, 14 of Text book. Appendix E, F, G</td>
</tr>
<tr>
<td>2 weeks</td>
<td>Multiplexing, Error detection and correction, Data link control, and Data link protocols.</td>
<td>Chapter 8-11 of Text book.</td>
</tr>
<tr>
<td>2 weeks</td>
<td>LAN, MAN and PPP protocols</td>
<td>Chapter 12, 13 and 15 of Text book.</td>
</tr>
<tr>
<td>1 week</td>
<td>Asynchronous Transfer Mode (ATM)</td>
<td>Chapter 19</td>
</tr>
<tr>
<td>1 week</td>
<td>Networking and Internetworking Devices</td>
<td>Chapter 21</td>
</tr>
</tbody>
</table>

Any changes and further details will be announced in the class from time to time.

Class Regulations
- Lecture attendance is required. Students are responsible to keep themselves aware of all materials, announcements, or changes made during class.
- Any confusion about assignment task must be clarified within 3 days from the date it is assigned. Any confusion on exam questions or quiz must be clarified during the test period. Students are responsible for ensuring that their exams are not missing any questions or pages.

Students With Disabilities: Every effort will be made to accommodate qualified students with disabilities. If you are a student with a documented disability who will need academic accommodations, please see me during the first week of class to discuss any special arrangement necessary. You should also contact the Disability Services Office at 389-2825 or 800-627-3529 (MRS/TTY).

Academic Honesty Policy: By staying enrolled in this class, you agree to abide in the University's Policy for Academic Honesty which appears in the Student Handbook under the section heading “Academic Honesty”. Failure to abide and respect the Academic Honesty Policy will result in severe penalties as allowed by the University.

ANY CONFUSION, CLARIFICATION AND/ OR INABILITY TO MEET ANY REQUIREMENT MUST BE DISCUSSED WITH THE INSTRUCTOR BY 1 SEPTEMBER 2000.