CMPS 309 Syllabus  
Fall 2007

Instructor  
Name: Dr. Ming-Hsing Chiu  
Office: Fay 327A  
Phone: (985)549-5313  
E-mail: mchiu@selu.edu  
Office hour: M, W, F -- 10:00 AM to 12:01 PM, 1:00 PM to 2:00 PM

Catalog Description  
Fundamentals of computer networking and protocols used in local area and wide area networks. Topics include network selection, installation, customization, and administration.

Course Objectives  
After completing of the course a student will understand:

- Behavior of data signals propagated through a transmission medium, and channel capacity;
- OSI and TCP/IP network protocol suites;
- Distinction between digital and analog data; and digital and analog transmission;
- Data link control protocols, the cooperative point-to-point exchange of data between two devices;
- Packet-switched networks, network routing and congestion control;
- Basic concepts of frame relay and cell relay networks (ATM);
- Traditional LANs, Ethernet and token ring;
- Bridges, routers and basic principles of internetworking (IP);
- Host to host transport protocol mechanisms (TCP); and
- Network security tools, techniques, and World Wide Web services.

Prerequisites  
CMPS 161 or CMPS 169, and CMPS 293, and MATH 165

Textbook  

Course Requirements  
- Reading of all assigned materials (text or online) before discussion in class.
- On-time completion and submission of assignments and projects. Late submissions will not be taken.
- Regular visits to the course Blackboard web page for announcements, assignments, handouts, notes and schedules.
- Personal responsibility to understand and gather materials from missed classes.
- Ability to use online tools (Blackboard, Email, World Wide Web).
- Exams will be based on course texts, homework/assignments, handouts, links and notes posted on Blackboard and class discussions.
**Americans with Disabilities ACT**
If you are a qualified student with a disability seeking accommodations under the Americans with Disabilities Act, you are required to self-identify with the Office of Student Life, Room 202, Student Union. More information can be obtain at this web address, http://www.selu.edu/stulife/handbook/ada.htm#Americans%20with%20Disabilities%20Act

**Class Procedures**
*Class Attendance:* Students are expected to attend class regularly and punctually unless illness or an emergency arises. In these cases a proof of emergency is required. **Excessive absences may jeopardize your chances of success in this course.** Absences will have an adverse effect on your grade in the following ways: missed announcements concerning assignments and due dates, non-exposure to material not directly covered in text.

*Classroom Decorum:* Free discussion, inquiry, and expression is welcomed and encouraged in this class. Classroom behavior that interferes with either (a) the instructor's ability to conduct the class or (b) the ability of students to benefit from the instruction is not acceptable. http://www.selu.edu/stulife/handbook/codeof.htm

**Academic Dishonesty**
Any form of academic dishonesty on assignment/exam will not be tolerated. For more information, refer to the “Academic Dishonesty” policy in the University Undergraduate Catalog: http://www2.selu.edu/StudentAffaires/Handbook/

**Open Door Policy**
The instructor welcomes input to help make your learning of the material in this course better and more productive. Please feel free to come by during the office hour and voice your suggestions and ideas.

**Other Policies**
- Each graded exam or assignment will be returned to you in class within one week after the submission. If there is any question about your grades, talk to me immediately. After grades have been returned for one week, I assume the grades are correct and will not be reevaluated.
- Understand that the Instructor has the right to award bonus points for attendance or class participation

**Evaluation**
Assignments and projects are due on the assigned dates whether or not the student attends. Late assignments are not accepted. No make-up exams will be given without PRIOR consent or proof of emergency.

Exam: Mid-term 20%
   Final 30%
Project: 25%

- Ethereal project: Ethereal is an open source protocol analyzer. It’s used by the network professionals for troubleshooting, analysis, software and protocol development, and education.
- System administration project: To take advantage of the newly established system administration lab (first set of servers are expected to be installed in lab 125 by September), we are going to do some project closely related to Internet application, such as setting up Domain Name Server.

Homework: 4 to 5 assignments. 25%

Grading Scale

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 - 100%</td>
<td>A</td>
</tr>
<tr>
<td>80 – 89%</td>
<td>B</td>
</tr>
<tr>
<td>70 – 79%</td>
<td>C</td>
</tr>
<tr>
<td>60 – 69%</td>
<td>D</td>
</tr>
<tr>
<td>Below 60%</td>
<td>F</td>
</tr>
</tbody>
</table>