

# Syllabus

## Telecommunications Systems

### The Upper Layers

*Although grading and guidelines will remain constant once the semester begins, the class schedule and assignments will change throughout the term, so check the online schedule and message board often for changes as the semester progresses. You are responsible for all information disseminated through various channels. Important and useful university info can also be found at*

*<http://osu.okstate.edu/acadaffr/aa/syllabus.htm>. An addendum for Tulsa students is attached at the end of this document.*

**See Online Classroom and Community (a.k.a. OC, Desire2Learn or D2L) at <http://oc.okstate.edu> for all materials and assignments**

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TCOM5123 – Fall 2007

#### **Telecommunications Systems: The Upper Layers**

"A very difficult, ambitious, and intense class" (a former student), "which will stay that way no matter who teaches it" (a new instructor... yes, that's me.)

Class Hours: Tue. 4:30-7:10 PM

Course Location: CLB 106B (STW) or NCB 226 (TUL)

Office Hours: Tue. 2:00-4:30 PM at the lecture site or by appointment

Professor: JinKyu Lee

Office: 380 North Hall (TUL), 426 Business (STW)

Phone: 918-594-8254

Email: [jinkyu.lee@okstate.edu](mailto:jinkyu.lee@okstate.edu) \*\* Include the course code (TCOM5123) in the subject line. Any email sent to me without a course code in the subject field may be treated as a junk mail.

#### **GOALS:**

Applied technical coverage of selected topics from the upper layers of the OSI model. Network and transport layers using TCP/IP, security issues, and other multi-layer protocol issues are covered.

#### **REQUIRED TEXTBOOKS:**

**TCP/IP Protocol Suite, by Behrouz A. Forouzan, 3rd Edition. McGraw-Hill, Inc., 2006. ISBN 0-07-296772-2**

You can get it from the bookstore or [online](#), but be sure to get the third edition before the third lecture.

**CLASS PREPARATION:**

In addition to completing homework exercises, you should always read materials noted **Reading / Preparation** of the class schedule. There may also be other materials posted in the same area that should be printed, reviewed prior to the class, and brought with you. Not all sessions will have additional materials. When available, these will most often be a subset of the PowerPoint slides that I will use in the classroom and will be very helpful in class.

**GRADING:**

Grades will be assigned based on two exams and several short assignments. Assigned weights are as follows:

35	Midterm Exam
35	Comprehensive Final Exam
30	Homework Assignments

Based on the weighted percentage, a final semester grade will be assigned on the following basis, using either the percentage or percentile scale. The one that results in the higher letter grade will be used for each individual:

<u>Grade</u>	<u>Percentage (Weighted as above)</u>	<u>Percentile</u>
A	85	65
B	75	25
C	65	10
D	50	5
F	<50	<5

Your percentile score simply represents the percent of other students who have achieved a lower percentage score than you. All students who complete the midterm, and are enrolled at that time, will be included in the percentile computations, even if they fail to complete the course. Whichever of these scales results in the highest grade will be applied for each student. You will be able to check your percentage score and percentile rankings in the OC Grade book.

**HOMEWORK ASSIGNMENTS:**

I will assign 5-10 homework problem sets to complete during the term. Each assignment will be weighted equally toward the final point total of 25, despite widely varying in necessary time and effort. Some assignments may be designated as "double homeworks", in which case they will count as two homework grades (each being weighted as a full homework grade). Because I have not decided how many assignments there will be, I cannot determine the exact value in final semester points for each assignment. Unless otherwise noted, these assignments are due at 11:59 PM on the due date, based on the time OC RECEIVED in the drop box.

**EXAMS:**

Exam dates and times are shown in the evolving schedule. All students are expected to take the exam on this date. If you have a direct (same time) conflict with another exam or have three or more final exams scheduled for a single day, please let me know at least 2 weeks before the exam date, otherwise I will expect you to take the exams at the prescribed times. Stillwater and Tulsa students will be expected to take the exam at that time, in the presence of a proctor that will be provided. Distance learning students will be expected to follow regular procedures to establish a valid proctor with Alvina Shearer or Shona Gambrell in the Center for Executive and Professional Development, in time to have that proctor receive your exam to take at the closest possible time on the same day as other students in your class.

Every student is responsible for all material covered and announcements made during presentations, sent by e-mail, or posted on the website, regardless of whether they have viewed the lectures in a timely manner.

**STUDENTS WITH DISABILITIES:**

If any member of the class believes that s/he has a physical, emotional, or psychological disability and needs accommodations of any nature, the instructor and the university Office of Student Disability Services (315SU, 405-744-7116) will work with you to provide reasonable accommodations to ensure that you have a fair opportunity to perform in this class. Please advise the instructor of such disability and the accommodations as soon as possible, but not later than the beginning of the second day the class meets. You will need to also contact the Student Disability Services office in order to receive accommodations. No accommodations will be made without prior notification.

**ACADEMIC INTEGRITY POLICY:**

Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration on homework or assignments, plagiarism, multiple submissions of the same assignment, cheating on examinations, fabricating information, helping another person cheat, having unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript, and being suspended from the University. You have the right to appeal the charge. Contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627. In short, the best policy with regard to any form of academic dishonesty is "**DON'T DO IT!!**" For more details about the full OSU policy, see <http://academicintegrity.okstate.edu/>.

## Evolving Class Schedule:

Week & Date	Subjects / Assignments	Reading / Preparation
Week 1 <b>Aug. 21</b>	Class Introduction Intro to Networks	Chapter 1
Week 2 <b>Aug. 28</b>	Common Reference Models (OSI & TCP/IP) Underlying Technologies	Chapter 2, 3
Week 3 <b>Sep. 4</b>	Classful Addressing Classless Addressing	Chapter 4, 5
Week 4 <b>Sep. 11</b>	Delivery, Forwarding, and Routing of IP Packets Address Resolution Protocol	Chapter 6, 7
Week 5 <b>Sep. 18</b>	Internet Protocol	Chapter 8
Week 6 <b>Sep. 25</b>	Internet Control Message Protocol Internet Group Management Protocol Exam Q&A	Chapter 9, 10
Week 7 <b>Oct. 2</b>	<b>Midterm Exam:</b> 4:30 in the regular classroom	
Week 8 <b>Oct. 9</b>	<b>Fall Break</b>	
Week 9 <b>Oct. 16</b>	User Datagram Protocol Transmission Control Protocol Stream Control Transmission Protocol	Chapter 11, 12, 13
Week 10 <b>Oct. 23</b>	Routing Protocols Multicasting	Chapter 14, 15
Week 11 <b>Oct. 30</b>	Automatic Configuration DNS	Chapter 16, 17
Week 12 <b>Nov. 6</b>	Remote Login File Transfer Electronic Mail	Chapter 18, 19, 20
Week 13 <b>Nov. 13</b>	Network Management World Wide Web IP over ATM Mobile IP	Chapter 21, 22, 23, 24
Week 14 <b>Nov. 20</b>	Private Networks, VPN, and NAT IPv6 & ICMPv6	Chapter 26, 27
Week 15 <b>Nov. 27</b>	Network Security	Chapter 28
Week 16 <b>Dec. 4</b>	Course Overview and Exam Q&A	
Week 17 <b>Dec. 11</b>	<b>Final Exam</b> Check the schedule again in Dec. ( <a href="http://www.okstate.edu/registrar/Exams/Exams.html">http://www.okstate.edu/registrar/Exams/Exams.html</a> )	6:00pm - 7:50pm CLB106B (STW) or NCB226 (TUL)



# OKLAHOMA STATE UNIVERSITY - TULSA ADDENDUM TO SYLLABUS ATTACHMENT

## FALL 2007

### HOW TO CONTACT A FACULTY MEMBER

If you have questions regarding your class, talk to your instructor. Faculty members usually include their office hours and/or phone number(s) in the class syllabus. If you cannot locate this information, set a time to meet with the instructor prior to or following your class session. You may check with the Faculty Support Services office, 918-594-8276 or 594-8277 on when the instructor may be available.

### SPECIAL ACCOMODATIONS FOR STUDENTS

According to the Americans with Disabilities Act, it is the responsibility of each student with a disability to notify the University of his or her disability and to notify the instructor and request verification of eligibility for accommodations from the Student Services Center, 103 North Hall, 594-8354. Please advise the instructor of such disability and desired accommodations at some point before, during, or immediately after the first scheduled class period.

### WHERE TO GO FOR HELP

Academic Advisor – All admitted students have an assigned academic advisor. Although it is true that only certain categories of student's need an advisor's signature or approval on class registration, all students benefit by conferring with their advisor on a regular basis. The Academic Advisement Center is located on the first floor of North Hall, 594-8271.

### **Library – 594-8130**

#### *Library Hours:*

Monday – Thursday 8:00 a.m. - 10:00 p.m.  
Friday 8:00 a.m. - 6:00 p.m.  
Saturday 9:00 a.m. - 5:00 p.m.  
Sunday 1:00 p.m. - 9:00 p.m.

Labor Day - Closed  
Fall Break – Open  
Columbus Day – Open  
Veterans Day – Open

Thanksgiving:  
Thursday – Saturday – Closed  
Sunday – Open regular hours

Holiday Break  
Dec. 15-16 - Closed  
Dec. 17-21 - 8:00 – 6:00  
Dec. 22-25 - Closed  
Dec. 26-28 - 10:00 – 6:00  
Dec. 29-Jan 1 - closed

### **Computer Lab - 594-8043**

#### *Computer Lab Hours:*

Monday – Friday 8:00 a.m. - 12:00 a.m.  
Saturday 9:00 a.m. – 9:00 p.m.  
Sunday 1:00 p.m. – 9:00 p.m.

A current student identification card is required.

**HAVE A GREAT SEMESTER!**