

CourseCS/CE/TE 4390ProfessorDr. Jorge A. CobbTermFall 2016MeetingsT and Th 7:00 pm to 8:15 pm in FO 2.404

# **Professor's Contact Information**

<b>Office Phone</b>	972 883 2479
<b>Office Location</b>	ECSS 4.208
<b>Email Address</b>	cobb@utdallas.edu
<b>Office Hours</b>	T and Th 4:00 - 5:30 pm
<b>Other Information</b>	Course materials available on elearning.utdallas.edu

# **TA's Contact Information**

NameTo be determinedOffice LocationEmail AddressOffice Hours

### **General Course Information**

Pre-requisites, Co- requisites, & other restrictions	Prerequisite: CS/SE 3345 or equivalent
Course Description	CS 4390 Computer Networks (3 semester hours) The design and analysis of computer networks. Topics include: the ISO reference model, transmission media, medium-access protocols, LANs, data link protocols, routing, congestion control, internetworking, and connection management. I.e., by the time you get out of this course you should basically know how data is transferred across a network.
Learning Outcomes	ABET learning objectives
	Ability to understand the need for and structure of the OSI, TCP/IP network models
	Ability to design and evaluate methods for the framing messages in transmission media
	Ability to analyze and evaluate different error detection schemes
	Ability to understand and evaluate stop-and-wait, sliding window protocols
	Ability to understand and evaluate multiple-access protocols
	Ability to design and evaluate routing protocols
	Ability to design and evaluate flow control and congestion control protocols
	Ability to understand the issues in internetwork design
	Ability to understand the various Internet protocols (TCP/IP)
	Ability to write networking protocols

Required Texts &	Computer Networks: a systems approach by Larry Peterson and Bruce
Materials	Davie (Morgan Kaufmann Publishers <u>http://www.mkp.com</u> ).
Suggested Texts,	
Readings, &	none
Materials	

# Assignments & Academic Calendar

[Topics, Reading Assignments, Due Dates, Exam Dates] We will cover selected subsections of the following chapters of the textbook:

- 1 Foundations
- 2 Direct Link Networks (Getting Connected)
- 3 and 4 Internetworking and advanced internetworking
- 5 End-to-End Protocols
- 6 Congestion Control and Resource Allocation

First homework and first exam will occur about 1/3 of the semester, similarly, the second homework and exam will occur after 2/3 of the semester

Exam dates will be announced 1  $\frac{1}{2}$  weeks in advance.

The final exam is given during the 3 hour slot indicated in the final exam schedule of the university. Please do not make travel reservations to leave town on a date earlier than this date

#### **Course Policies**

Course 1 oncies	
Grading (credit) Criteria	<ul> <li>Exams: two "midterm" exams each counting 20% to your grade, a final exam counting 25% of your grade, i.e., exams altogether count for 65% of your grade.</li> <li>Two homeworks and one programming assignment. HW's are 10% each and the programming project is 15%, for a total of 35%</li> <li>Homeworks and programming project are INDIVIDUAL WORK only. Cases of suspected cheating will be sent to the Judicial Affairs office.</li> </ul>
Make-up Exams	Only by consent of instructor under severe reasons.
Extra Credit	None
Late Work	Only by consent of instructor under severe reasons.
Special Assignments	None
Class Attendance	I do not check for class attendance, but given the difficulty of the topics it is obviously necessary.
Classroom Citizenship	Please participate and ask questions during class. It tends to slow down the pace and make the lectures more enjoyable !!

Misc. but important	<ul> <li>Please bring your photo ID to each exam</li> <li>NO RESTROOM BREAKS DURING EXAMS: I don't take a restroom break, so neither do you!</li> <li>Please in all your answers in your exams at least give a brief one or two sentence explanation of your answer. A "yes" or "no" answer is not allowed.</li> <li>The final exam is given during the 3 hour slot indicated in the final exam schedule of the university. Please do not make travel reservations to leave town on a date earlier than this date.</li> </ul>	
UT Dallas	The information contained in the following link constitutes the University's policies	
Syllabus Policies	and procedures segment of the course syllabus.	
and Procedures	Please go to <u>http://go.utdallas.edu/syllabus-policies</u> for these policies.	

These descriptions and timelines are subject to change at the discretion of the Professor.