

## COURSE INFORMATION

### TLEN5330

### Data Comm 1

#### **Course Description:**

This course is intended for graduate students in tele- communications, computer sciences, engineering, business and related disciplines concerned with the technology, planning, and management of data communication systems.

This will be a study of the science of data and computer communication. This specialized field is being accelerated in part by the enormous gains being made in microelectronics technologies; by the massive deployment and interconnection of these computer assets using wired and wireless local area networks, metropolitan area networks, and wide area networks; and by the bandwidth potential of optical fiber interconnect not to mention the Internet, increased sophistication of consumer demand, and great emphasize on mobility.

#### **Prerequisites:**

This class is specifically designed as an interdisciplinary graduate level course. Out of necessity this class leans toward technology. Therefore, a student should have a general familiarity with the telecommunication system theory equivalent to that offered by the University of Colorado's graduate Interdisciplinary Telecommunications Department (ITD), specifically TLEN 5310, Telecommunications Systems which can be taken concurrently with this class. Questions and waivers to this requirement should be directed to the instructor.

#### **Instructor:**

Douglas C. Sicker  
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303-735-4949  
1b54a eccr

#### **Course Homepage:**

On CULearn

#### **TA:**

TBD

#### **Office hours and location**

Tuesday and Thursday after class; ECCR1b54a or send me an email.

#### **Grading:**

Monthly exams 80%  
Labs 10%  
Homework 10%

(No late homework, please. Late homework will be accepted only under exceptional circumstances. In most cases, it's better to turn in incomplete homework rather than to turn in a late assignment.)

**Book:**

Computer Networks, Peterson and Davie, 4<sup>th</sup> edition. (Required)

**Labs:**

We will have 3-4 labs throughout the term.

**Syllabus:**

08/24/08	Overview	Read chapter 1
08/31/08	Overview	
09/07/08	PHY	Read chapter 2
09/14/08	PHY	
09/21/08	Data Link	Read chapters 3
09/28/08	Data Link	
10/05/08	Routing	Read chapters 4
10/12/08	Routing	
10/19/08	Transport	Read chapter 5
10/26/08	Transport	
11/02/08	Application	Read chapters 6
11/09/08	Application	
11/16/08	Security	Read chapter 7
11/23/08	BREAK	
11/30/08	Miscellaneous	Read chapter 8
12/07/08	Review	
12/14/08	Final	Study

## IMPORTANT STATEMENTS

(1) The Boulder Provost's Disability Task Force recommended syllabus statement:

If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services in a timely manner so that your needs be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, and [www.Colorado.EDU/disabilityservices](http://www.Colorado.EDU/disabilityservices)

Disability Services' letters for students with disabilities indicate legally mandated reasonable accommodations. The syllabus statements and answers to Frequently Asked Questions can be found at [www.colorado.edu/disabilityservices](http://www.colorado.edu/disabilityservices)

(2) It is the responsibility of every instructor to clearly explain his or her procedures about absences due to religious observances in the course syllabus so that all students are fully informed, in writing, near the beginning of each semester's classes. Campus policy regarding religious observances states that faculty must make reasonable accommodation for them and in so doing, be careful not to inhibit or penalize those students who are exercising their rights to religious observance. Faculty should be aware that a given religious holiday may be observed with very different levels of attentiveness by different members of the same religious group and thus may require careful consideration to the particulars of each individual case. See [http://www.colorado.edu/policies/fac\\_relig.html](http://www.colorado.edu/policies/fac_relig.html)

A comprehensive calendar of the religious holidays most commonly observed by CU-Boulder students is at <http://www.interfaithcalendar.org/>

Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. In this class, {{insert your procedures here}} See full details at [http://www.colorado.edu/policies/fac\\_relig.html](http://www.colorado.edu/policies/fac_relig.html)

(3) Faculty and students should be aware of the campus "Classroom Behavior" policy at <http://www.colorado.edu/policies/classbehavior.html> as well as faculty rights and responsibilities listed at [http://www.colorado.edu/FacultyStaff/faculty-booklet.html#Part\\_1](http://www.colorado.edu/FacultyStaff/faculty-booklet.html#Part_1)

These documents describe examples of unacceptable classroom behavior and provide information on how to handle such circumstances should they arise. Faculty are encouraged to address the issue of classroom behavior in the syllabus.

Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards

may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. See policies at <http://www.colorado.edu/policies/classbehavior.html> and at [http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student\\_code](http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code)

(4) The Office of Discrimination and Harassment recommends the following syllabus statement:

The University of Colorado at Boulder policy on Discrimination and Harassment, the University of Colorado policy on Sexual Harassment and the University of Colorado policy on Amorous Relationships apply to all students, staff and faculty. Any student, staff or faculty member who believes s/he has been the subject of discrimination or harassment based upon race, color, national origin, sex, age, disability, religion, sexual orientation, or veteran status should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127 or the Office of Judicial Affairs at 303-492-5550. Information about the ODH, the above referenced policies and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at <http://www.colorado.edu/odh>

(5) The Boulder campus has a student Honor Code and individual faculty members are expected to familiarize themselves with its tenets and follow the approved procedures should violations be perceived. The Honor Council recommended syllabus statement:

All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council ([honor@colorado.edu](mailto:honor@colorado.edu); 303-725-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at <http://www.colorado.edu/policies/honor.html> and at <http://www.colorado.edu/academics/honorcode/>