Computer Science & Engineering Syllabi   College of Engineering & Computer Science

Spring 2008

CEG 702-01: Advanced Communication Networks

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Department of Computer Science and Engineering
Wright State University

CEG702 Advanced Communication Networks

SYLLABUS

Spring 2008

Time/Place	Section 1: 8:00-9:15pm, T, Th, Russ Engineering Center 155
Instructor	Dr. Bin Wang, Assistant Professor, 491 Joshi Research Center Tel: (937) 775-5115, E-mail: ***send email via WebCT CEG702_bwang*** Office hours: 5:00-6:00pm T, Th, or by appointment
Prerequisites	CEG402/602; Programming experience in C or C++; Program development tools: editors, compilers, linkers, debuggers; Data structures: arrays, stacks, queues, lists, and binary trees.
Textbooks	*Recommended*: 1. Computer Networks: A system approach, 4th Ed, Larry L. Peterson, Bruce S. Davie, Morgan Kaufmann, 2007. *References*: 2. High-speed networks and Internets: performance and quality of service, 2nd Ed, William Stallings, 2001. Computer Networks, 4th Ed, Andrew S. Tanenbaum, Prentice Hall, 2002. 3. Introduction to Wireless and Mobile Systems, D. Agrawal, Q. Zeng, Thomson Brooks/Cole, 2002. 4. Computer Networking: A top-down approach featuring the Internet, 3rd Ed. Kurose & Ross, Addison-Wesley, 2005.
Webpage	http://wisdom.wright.edu Check daily WebCT for announcements, assignment, homework, questions and answers
Course Objectives	This is a graduate level course on advanced computer communication and networking technologies. The course involves both a reading/lecture/discussion component and a project component. We will read papers on various aspects of advanced computer networking: LAN/WAN technologies, congestion/flow control, self-similar traffic analysis, queuing theory, link scheduling, routing, internetworking, multicast, wireless technologies, quality of services, and peer-to-peer networks. Various technical and research issues involved will be studied in depth.
Students' Responsibilities	As a student in this class, you are expected to: 1) read the appropriate materials **prior to** class and come up with questions. Reading materials will be assigned in advance. 2) attend class on a regular and timely basis. **Regular class attendance is mandatory** and is essential to success in the course. The student is

responsible for all content, handouts, and announcements made in class.
3) you are required to actively participate in Q&A.
4) you will be required to do a few critical paper reviews. Instructions on how to do a paper review will be given.
5) complete and turn in your class assignments timely. You are expected to write your own programs. **Do not** copy from or give your work to others, and **do not** make it possible for others to copy any portions of your work. Violators will receive a **Zero** credit on the assigned project.
6) be present for exams at the scheduled times. If there is a catastrophic event that prevents a student form taking an exam, please contact the instructor as soon as possible.
7) not disturb the class by talking during lecture, or allowing pagers or phones to ring.
8) set up an appointment with the instructor and graduate teaching assistant or visit during office hours if you have questions regarding course contents, lectures, handouts, and other problems.

Course Evaluation

To complete and pass the course, students will receive a final course grade comprised of the weighted score earned on all required course assignments and exams.

Methods: **% of final grade**

1. Project (lab projects + term paper): 40%
2. Paper reviews: 20%
3. Final exam: 40% (6/10, Tuesday 8:00-10:00pm)

Total   100%

Grading scale:

90-100   A
80-89.9   B
70-79.9   C
60-69.9   D
Below 60   F

Re-grading policy: If you have questions about the way an assignment or exam was graded, you must submit **in writing** a regrading request detailing the rationale for regrading.

Late Submission of Programming Assignments

You will lose 5% of the total points for an assignment for each 24-hour period (or fraction of a 24 hour period) the assignment is late. Late assignments will be accepted up to 4 days after the due date as specified in the assignment handout. Late penalty is accrued on weekends just as during the week. Partial credit will be given to students who turn in partially completed assignments.

Special considerations will be given for students who have a medical excuse for late submission (written proof of illness is required). These considerations may extend to medical emergencies involving children or other family members. Such consideration is at the discretion of the instructor, and will be as reasonable

and fair as possible. Special consideration may also be given for employment conflicts (e.g. military duty, travel) if brought to the attention of the instructor **prior to** the due date for an assignment.

Course requirements for other courses are **NOT** a valid reason for special consideration.

Missed Quizzes and Exam

Missed quizzes and exams can be made up only under extenuating circumstances such as medical emergencies and work conflicts as mentioned above. Please see the instructor as soon as possible if you know you will be unable to attend a quiz or exam. You are expected to schedule your departure for any end of quarter travel after your final exam.

Plagiarism

Students are members of a learning community committed to the search for knowledge and truth. Essential to that search is the faithful adherence by all students to the highest standards of honesty and integrity. A grade of "0" or "F" will be assigned to examinations or assignments on which cheating, plagiarism or any other form of academic dishonesty is committed or determined to have occurred. For the detail, see Wright State University Student Handbook under "Academic Dishonesty".