

Fall 2005

CEG 790: Emerging Networks

Bin Wang

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*Department of Computer Science and Engineering
Wright State University*

CEG790 Emerging Networks

SYLLABUS

Fall 2005

| | |
|-----------------------------------|---|
| Time/Place | Section 1: 2:15-3:30pm, T, R, 208 Russ Engineering Center |
| Instructor | Dr. Bin Wang, Associate Professor, 447 Russ Engineering Center Tel: (937) 775-5115, E-mail: bwang@cs.wright.edu Office hours: 4:00-5:00pm T, R or by appointment |
| Prerequisites | CEG402/602, CEG633/634, CEG702 (preferably); CS400 and proficient in C or C++; Program development tools: editors, compilers, linkers, debuggers; Data structures: arrays, stacks, queues, lists, and binary trees. |
| Textbooks | <i>Required:</i> Course packet <i>References:</i> <ol style="list-style-type: none">1. Optical Networks: A practical perspective, Rajiv Ramaswami, Kumar N. Sivarajan, Morgan Kaufmann, 2nd Ed, 2002.2. Computer Networks, 4th Ed, Andrew S. Tanenbaum, Prentice Hall, 2002.3. Ad Hoc Networking, Charles E. Perkins, Addison-Wesley, 2001.4. Computer Networks: A system approach, 3rd Ed, Larry L. Peterson, Bruce S. Davie, Morgan Kaufmann, 2003.5. Introduction to Wireless and Mobile Systems, D. Agrawal, Q. Zeng, Thomson Brooks/Cole, 2002. |
| Webpage | http://www.cs.wright.edu/~bwang/ceg790.htm |
| Course Objectives | This is a graduate level course on emerging networking technologies. The course involves a reading/lecture/presentation/discussion component, paper review component, and a project component. It will provide an in-depth study on a number of focused areas: dense wavelength division multiplexing (DWDM) optical networks, optical burst switching networks, peer-to-peer networks, and wireless mobile networks (including Ad-hoc wireless networks, sensor networks). Various technical and research issues involved will be studied. These areas of emerging networking technologies will play central roles in future communication networks. |
| Students' Responsibilities | As a student in this class, you are expected to: <ol style="list-style-type: none">1) read the appropriate materials prior to class.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 will be required to do one well prepared paper presentation in class. You should read and understand the paper thoroughly and to the point that |

you can answer questions asked by the instructor and the audience. The instructor and fellow students will do the peer review of your presentation, which is the basis for your score in this part of the course assignment. Audience is required to actively participate in Q&A when other students present.

- 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 if applicable. **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.
- 7) do not disturb the class by talking during lecture, or allowing pagers or phones to ring.
- 8) set up an appointment with the instructor 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: | 30% |
| 2. Paper reviews: | 20% |
| 3. Paper presentation: | 10% |
| 4. Final exam: | 40% (November 17, 3:15pm-5:15pm) |
| ----- | |
| Total | 100% |

Grading scale:

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

If you have questions about the way an assignment or exam was graded, you need to set an appointment with the instructor.

Late Submission of Programming Assignments

Late assignments will not be accepted.

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".