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Fall 2012

### CEG 7900-01: Emerging Networks

Bin Wang

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*Department of Computer Science and Engineering  
Wright State University*

**CEG7900 Emerging Networks**

SYLLABUS

Fall 2012

Drop dates: 9/21 (in-person), 9/23 (online) no grade; 10/26 (in-person), 10/28 (online) with a W

<b>Time/Place</b>	Section 1: 8:00-9:20pm, T, Th Joshi 191
<b>Instructor</b>	Dr. Bin Wang, Professor, 491 Joshi Research Center Tel: (937) 775-5115, E-mail: <i>send email via Pilot</i> Office hours: 5:30-6:30pm T, Th, or walk-in
<b>Prerequisites</b>	CEG6400
<b>Textbooks</b>	<i>Course Materials will be posted in Pilot</i> <i>References:</i> Optical Networks: A practical perspective, Rajiv Ramaswami, Kumar N. Sivarajan, Morgan Kaufmann, 2 <sup>nd</sup> Ed, 2002. Computer Networking: A top-down approach, 5th Ed. Kurose & Ross, Pearson, 2010. Computer Networks, 4th Ed, Andrew S. Tanenbaum, Prentice Hall, 2002. Ad Hoc Networking, Charles E. Perkins, Addison-Wesley, 2001. Computer Networks: A system approach, 3rd Ed, Larry L. Peterson, Bruce S. Davie, Morgan Kaufmann, 2003. Introduction to Wireless and Mobile Systems, D. Agrawal, Q. Zeng, Thomson Brooks/Cole, 2002.
<b>Webpage</b>	<a href="http://pilot.wright.edu">http://pilot.wright.edu</a>
<b>News Group</b>	Check daily Pilot for announcements, assignments, homework, questions and answers
<b>Course Objectives</b>	This is a graduate level course on emerging networking technologies. The course involves various components, including reading/lecture/presentation/discussion, paper review, and a project. It will provide an in-depth study on a number of focused areas: dense wavelength division multiplexing (DWDM) optical networks, ELASTIC optical networks, optical burst/packet switching networks, peer-to-peer networks, Internet of Things, Cloud Networking, Enterprise Networking and wireless mobile networks (including Ad-hoc wireless networks, cognitive radio networks). Various technical and research issues involved will be studied. These areas of emerging networking technologies will play central roles in future communication networks.
<b>Students' Responsibilities</b>	You are expected to: 1) read assigned materials <b>prior to</b> class and come up with questions. Reading materials will be assigned in advance. 2) attend classes on a regular and timely basis. Regular class attendance is

- mandatory and is essential to success in the course. You are responsible for all contents, handouts, and announcements distributed/made in class.
- 3) complete and turn in your assignments timely. You are expected to submit your own work. **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 assignment.
  - 4) be present for exams at the scheduled times. If there is a catastrophic event that prevents you from taking an exam, please contact the instructor as soon as possible.
  - 5) not disturb/disrupt the class.
  - 6) consult with the instructor if you have questions regarding course contents, lectures, handouts, or other problems.

**Course Evaluation** You will receive a final course grade comprised of the weighted scores earned on all required course assignments and exams.

<b>Methods:</b>	<b>% of final grade</b>
1. Project:	30%
2. Paper reviews:	20%
3. Paper presentation:	10%
4. Final exam:	40% (12/13, Thursday, 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 is graded, you must detail the rationale for re-grading.

**Late Submission of Assignments** You may discuss assignments with classmates but all submitted must be individually prepared.

You will lose 10% 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 credits 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 Exams**

Missed 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 an 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”.