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Winter 2011

CEG 435/635: Distributed Computing and Systems

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CEG 435/635
Distributed Computing and Systems

Syllabus

Winter Quarter, 2011

- Time/Place:** Lecture: 6:05 – 7:20 PM, Tu. & Th., Joshi 193
- Instructor:** Dr. Yong Pei, 489 Joshi Research Center
Tel. 937-775-5111, Email: yong.pei@wright.edu
Office Hours: 5:00-6:00 pm, Tu. & Th.
- Prerequisite;** CEG 433 or equivalent.
Expected background: operating system, process and thread, Java or C/C++ programming experience in Windows, Mac OS, UNIX or Linux.
- Course Description:** Study of process coordination, client-server computing, distributed objects, transactions, concurrency control, recovery of transactions, network and distributed file systems, distributed operating systems, and fault-tolerant computing.
- Text Books:** *Required:* Coulouris, G., Dollimore, J., and Kindberg, T. , Distributed Systems: Concepts and Design, 4th Edition, Addison Wesley, 2005
References: Tanenbaum, A. and Maarten van Steen, Distributed Systems Principles and Paradigms, 2002: Prentice-Hall, ISBN 0-13-088893-1.
- Website:** CEG435-635 in WebCT.
- Grading:** Project assignment – 30 %
Homework – 10%
Midterm Exam – 30%
Final – 30%

Lectures:

The following tentative schedule defines in greater details what material is covered in the course and when it is covered.

Week	Reading	Contents
1	Chapter 1 Chapter 2	Welcome and introduction Models of distributed Systems
2	Chapter 3 Chapter 4	Networking IPC
2, 3	Chapter 5	Remote procedure call Distributed objects and Remote Invocation Concurrent programming in a distributed environment
4, 5	Chapter 6 Chapter 7	OS Supports DFS
5	Thursday	Midterm Exam
6	Chapter 9	Name, directory & discovery services
7	Chapter 10	Peer-to-peer systems
8	Chapter 13, 15	Transaction processing Concurrency control Fault tolerant services
9, 10	Chapter 17 Notes	Design Experiences: Distributed multimedia systems, Sensor web systems
10	Thursday	FINAL EXAM
11		Open-Design Project Presentations