Computer Science & Engineering Syllabi   College of Engineering & Computer Science

Winter 2012

CEG 434/634: Concurrent Software Design

Soon M. Chung
Wright State University - Main Campus, soon.chung@wright.edu

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CEG 434/634 Concurrent Software Design

Winter Quarter, 2012

Catalog Data: Classical problems of synchronization and concurrency and their solutions are examined through course projects and through readings on operating system design.

Instructor: Dr. Soon M. Chung
403 Russ Engineering Center
(937)775-5119, soon.chung@wright.edu
http://www.cs.wright.edu/~schung

Class: T., Th. 6:05-7:20 pm at 204 Fawcett Hall

Office hour: M., Tu. 4:30-5:30 pm at 403 Russ, or by appointment.
Use e-mail for short questions.

Text Book: A. Silberschatz, P. Galvin, and G. Gagne, Operating System Concepts, 8th edition, John Wiley & Sons, 2009.

Reference Book: K. A. Robbins and S. Robbins, Unix System Programming: Communication, Concurrency, and Threads, Prentice Hall, 2003.

Topics:
Process Synchronization (Ch. 6)
Deadlocks (Ch. 7)
Distributed Coordination (Ch. 18)
Mass-Storage Structure (Ch. 12)
Real-Time Systems (Ch. 19)
File-System Interface (Ch. 10)
File-System Implementation (Ch. 11)

Grading: A:[85,100], B:[75,85), C:[65,75), D:[55,65), F:[0,55)
Midterm 30% (2/14 Tu.)
Final 40% (3/15, Th., 8:00-10:00 pm)
Programming project 30% {design 8%, documentation 8%, correctness 8%, report organization and discussion 6%}