

CEG 7370 Distributed Computing

Spring, 2021

Description: Introduction of distributed computing principles, including communicating sequential processes, clients and servers, remote procedure calls, distributed file systems, distributed coordination, distributed algorithms, etc.

Prerequisite: CEG 4350/6350 OS Internals and Design, or equivalent.

Instructor: Dr. Soon M. Chung
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Class: Pre-recorded video lectures posted on the Pilot.

Office hour: Friday, 10:30–11:30 am (using Webex). For short questions, please use emails.

Text Book: George Coulouris, Jean Dollimore, Tim Kindberg, and Gordon Blair, *Distributed Systems: Concepts and Design*, 5th edition, Addison-Wesley, 2012.

References:

- A. Silberschatz, P. Galvin, and G. Gagne, *Operating System Concepts*, John Wiley & Sons.
- A. Tanenbaum and M. van Steen, *Distributed Systems: Principles and Paradigms*, Pearson Prentice Hall.
- A. Tanenbaum, *Distributed Operating Systems*, Prentice Hall.

Topics: Characterization and Models of Distributed Systems (Chapters 1-2)

Networking and Interprocess Communication (Chapters 3-4)

Remote Invocation (Chapter 5)

Operating System Support (Chapter 7)

Security (Chapter 11)

Distributed File Systems (Chapter 12)

Name Services (Chapter 13)

Grading: A:[85,100], B:[75,85), C:[65,75), D:[55,65), F:[0,55)

1. Midterm exam: 30% (3/12, F, 12:20 – 2:00 pm)

2. Final exam: 40% (4/28, W, 12:30 – 3:00 pm)

3. Programming project: 30%

- Project outline due on 3/5, Friday.
- Final project report due on 4/21, Wednesday.