Today’s Agenda

- Syllabus
- Software Engineering: What and Why

Instructor

- Instructor: Jeff Lei, ylei@cse.uta.edu, x2341, ERB 531, Office hours: 2:00 - 3:30pm, Tue. & Thu.
- TA: Mehra N. Borazjany, mehra.nourozbazarzany@mavs.uta.edu
Communication Channel

- Everyone MUST subscribe to the class mailing list consoft@listserv.uta.edu.

- Use the following instructions to join the list:
  - Compose a message so that its subject line is empty, and its body contains a single line "subscribe consoft@listserv.uta.edu"
  - Send this message to listserv@listserv.uta.edu.
  - Confirm your subscription by replying the message from the listserv server

Textbook & References

- Textbook

- References
Course Website

- The course web site is available at the following URL: http://crystal.uta.edu/~ylei/cse6324
- Lecture notes, assignments, announcements, and any supplementary materials will be posted on the web site.
- Visit the website at least once per week.

Homework

- About four written assignments
  - exam problems are similar to homework problems
- Must be solved individually
  - Fine to discuss the assignments with others
  - NEVER share the solutions.
- Account for 20% of your final grade
Grading

- The final grade will be calculated using the following percentages:
  - Homework - 20%
  - Midterm Exam - 50%
  - Project - 30%

- If you have any questions about your grades, you **MUST** notify the TA or the instructor within two weeks after the grades become available.
  - The grades become final after two weeks!

Late Assignments

- Late assignments are acceptable before solutions are posted or explained in class, with 10% deduction for every 24 hours. Less than 24 will be rounded to 24.

- If you have an emergency that prevents you from completing the work, contact the TA or the instructor prior to the due date.
**Academic Integrity**

- You must **EARN** your credits honestly and professionally.

- **The reasons?**
  - This is the only way for you to learn.
  - You don’t want to lose your reputation to your fellow students.
  - You don’t want to be a subject of disciplinary actions.
  - …

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**Tentative Topics**

- **Concurrent Programming**
  - Java Threading Model, Binary/Counting Semaphores, Locks, General/Java Monitors, Link/Port/Mailbox, Rendezvous, Selective Wait, Coarse-grain vs fine-grain synchronization, Common Concurrent Problems

- **Testing and Debugging of Concurrent Programs**
  - Tracing/Replay, Race Analysis, Non-deterministic Testing, Deterministic Testing, Reachability Testing

- **Introduction to CCS**
  - Modeling Concurrency, The CCS language, Transitional Semantics, Equational Laws
Questions?