CS 5213 Software Engineering Processes  
Fall 2008 Syllabus

General Information

- **Instructor:** Yifei Dong (dong@ou.edu, 325-6165, EL 154)
- **Class time:** Monday/Wednesday/Friday 9:30-10:20 am, Felgar Hall 336
- **Prerequisite:** At least two years of programming experience

Description

This course introduces state-of-the-art software engineering processes, including software requirements specification, planning, design, documentation, development, review, defect tracking, testing, product delivery, and product evaluation. Mimicking real-life work environment, students work in teams to design, develop, and evaluate software products using open source software engineering tools.

Textbook

Required Textbooks

No required textbook

Recommended Readings

- General Information about Software Engineering
  - [Software Engineering Body of Knowledge](#)
- Extreme Programming
  - [http://www.extrempregramming.org/](http://www.extrempregramming.org/)
- Unified Modeling Language
- Tools
  - [Eclipse](http://www.eclipse.org/)
  - [JUnit](http://junit.org/)
  - [Subversion](http://subversion.tigris.org/)

Workload and Grading
Team Project

The major activity in this class is a team project throughout the semester. A team is made up of five or six members. The project will go through several processes:

- Project proposal
- Requirement analysis
- System specification
- Architecture design
- Construction
- Product demonstrations
- User testing
- Evaluation

Note that the processes are not of equal length, and some processes may go through multiple iterations. Furthermore, some processes may overlap. Each process requires appropriate report and/or presentation. The grade is based on the quality of the product (including source code, documents, and presentations) and individual contributions.

Reading and Presentation

All students will be given reading materials related to the processes being experienced. Each student will give one semi-formal presentation on a particular topic.

Class Participation

All students are expected to attend the lectures and actively participate in discussions.

Final Exam

A final written and/or oral exam will be used to test the students' understanding of learned knowledge.

Final Grade

The above components are weighted in the final grade as follows.

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Team Project</td>
<td>50%</td>
</tr>
<tr>
<td>Reading and Presentation</td>
<td>20%</td>
</tr>
<tr>
<td>Class Participation</td>
<td>10%</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
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</tbody>
</table>

The grading scale will be no higher than the following: A=[90%, ∞), B=[75%, 90%), C=[60%, 75%), F=[0%, 60%). The grading weights and scales are subject to change when it is necessary.

Course Policies
Scholastic Conduct

Any academic misconduct will be documented and handled immediately, including the involved students being admonished or being reported to the Campus Judicial Coordinator (Suzette Dyer) with a request that a grade of F be given in the class to all participants. The procedure to be followed is in the University of Oklahoma Academic Misconduct Code. Students have the right to appeal an admonishment (http://www.ou.edu/provost/integrity-rights/).

Teamwork Issues

The workload of team project are expected to be evenly distributed among the members. One will risk losing all or part of the project grade if he does not make fair contribution.

Incomplete

Due to the teamwork nature of this course, Incomplete will not be granted.

Accommodation Policy

Any student in this course who has a disability that may prevent him or her from fully demonstrating his or her abilities should contact the instructor personally as soon as possible so that necessary accommodations can be discussed to ensure full participation and facilitate the student's educational opportunities.